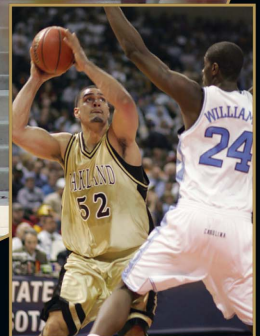


# OAKLAND UNIVERSITY

2005 - 2006 UNDERGRADUATE CATALOG



## Current Legend Oakland University

1. Facilities Management	FM	16. Graham Health Center	GHC	33. Golf Course Clubhouse and Pro Shop	
2. Belgian Barn		17. Vandenberg Hall	VBH	34. John Dodge House	JDH
3. Police and Support Services Building	PSS	18. Hamlin Hall	HAM	35. Meadow Brook Hall	MBH
4. Varner Hall	VAR	19. George T. Matthews Apartments		36. Carriage House	
Recital Hall		20. Hill House	HIL	37. Sunset Terrace	SST
Studio Theatre		21. Van Wagoner House	VWH	38. Baldwin Pavilion	BP
5. Elliott Hall	EH	22. Fitzgerald House	FTZ	39. Trumbull Terrace	
6. Pawley Hall	PH	23. Anibal House	ANI	40. Meadow Brook Music Festival	
Lowry Early Childhood Education Center		24. Pryale House	PRY	Ticket Office	
7. Kresge Library	KL	25. Central Heating Plant	CHP	41. Shotwell-Gustafson Pavilion	
8. Science and Engineering Building	SEB	26. Recreation and Athletics Center	RAC	42. Katke-Cousins and R & S Sharf Golf Courses	
9. Hannah Hall of Science	HHS	27. O'Dowd Hall	ODH	43. Pioneer Field (lower)	
10. Dodge Hall of Engineering	DHE	28. Buildings and Grounds Maintenance		44. Pioneer Field (upper)	
11. South Foundation Hall	SFH	29. Storage Facility		45. Varner House	VAH
12. North Foundation Hall	NFH	30. Electrical Substation		46. Meadow Brook Greenhouse	
13. Oakland Center	OC	31. Kettering Magnetics Lab*	KML	47. University Student Apartments	USA
14. Wilson Hall	WH	32. Observatory*			
15. Meadow Brook Theatre and Art Gallery					* Off map

# OAKLAND UNIVERSITY

2005-2006 UNDERGRADUATE CATALOG

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May 2005 Volume XLV

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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 2005 through summer session 2012. Undergraduate students admitted to a degree-granting program may use provisions in this catalog to meet requirements within that time frame.

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

As an equal opportunity and affirmative action institution, Oakland University is committed to compliance with federal and state laws prohibiting discrimination, including Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. It is the policy of Oakland University that there shall be no unlawful discrimination against any person on the basis of race, sex, sexual orientation, color, religion, creed, national origin or ancestry, age, height, weight, marital status, handicap, familial status, veteran status or other prohibited factors in employment, admissions, educational programs or activities. Inquiries or complaints should be addressed to: Director, University Diversity & Compliance, 203 Wilson Hall, Oakland University, Rochester, Michigan 48309-4401.

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## 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 the Advising Resource Center, or in the College of Arts and Sciences Advising Office, or in the advising offices of the schools.

### Advising Resource Center

121 N. Foundation Hall  
(248) 370-3227  
Undecided—No Major Program

### College of Arts and Sciences

221 Varner Hall  
(248) 370-4567  
African and African-American Studies  
Anthropology  
Applied Statistics  
Art History  
Biochemistry  
Biology  
Biology, Secondary Education  
Chemistry  
Chemistry, Secondary Education  
Communication  
Dance, Performing Arts  
East Asian Studies (China or Japan)

Economics, B.A.  
Engineering Chemistry  
Engineering Physics  
English  
English, Secondary Education  
Environmental Health  
French Language and Literature  
French, Secondary Education  
German and German Studies  
German Language and Literature  
German, Secondary Education  
History  
History, Secondary Education  
Journalism  
Latin American Language/Civilization  
Latin American Studies  
Linguistics  
Mathematics  
Mathematics, Secondary Education  
Medical Physics  
Music  
Music Education  
Music Theatre, Performing Arts  
Philosophy  
Physics  
Physics, Secondary Education  
Political Science  
Pre-Law  
Pre-Med  
Psychology  
Public Administration and Policy

**Academic Advising Index** continued

Slavic Studies  
 Sociology  
 South Asian Studies  
 Spanish Language and Literature  
 Spanish, Secondary Education  
 Studio Art  
 Theatre Performance, Performing Arts  
 Theatre Production, Performing Arts  
 Women's Studies  
 Undecided—Fine Arts, Letters,  
 Science/Math or Social Science

**School of Business Administration**

332 Elliott Hall  
 (248) 370-3285

Accounting  
 Business Economics  
 Economics  
 Finance  
 Financial Information Systems  
 General Management  
 Human Resources Management  
 Management Information Systems  
 Marketing  
 Pre-Business  
 Undecided Business

**School of Education and Human Services**

363 Pawley Hall  
 (248) 370-4182 (Teacher Education)  
 430 A/C Pawley Hall  
 (248) 370-3066 (Human Resource Development)

Elementary Education  
 Human Resource Development (HRD)  
 Secondary Education  
 Undecided—Education

**For More Information**

Area code: (248)  
 Admissions: 370-3360 (undergraduate) 370-3167 (graduate)  
 Disability support services: 370-3266, 370-3268 (TDD)  
 Information: 370-2100  
 International student services: 370-3358, 370-3268 (TDD)  
 Loans and student employment: 370-2550 (Financial Aid Office)  
 Scholarships and grants: 370-3360 (new students)/370-2550 (returning students)/  
 370-3167 (graduate students)  
 Student affairs: 370-4200  
 Student housing: 370-3570 (Residence Halls Office)

**School of Engineering and Computer Science**

159A Dodge Hall  
 (248) 370-2201

Computer Engineering  
 Computer Science  
 Electrical Engineering  
 Engineering Chemistry  
 Engineering Physics  
 Information Technology  
 Manufacturing Engineering Option  
 within Mechanical Engineering  
 Mechanical Engineering  
 Systems Engineering  
 Undecided—Engineering/  
 Computer Science

**School of Health Sciences**

363 Hannah Hall  
 (248) 370-4195

Exercise Science  
 Health Sciences  
 Occupational Safety and Health  
 Medical Laboratory Sciences  
 - Cytotechnology  
 - Clinical Laboratory Sciences  
 - Histotechnology  
 - Nuclear Medicine Technology  
 - Radiation Therapy  
 Physical Therapy  
 Wellness, Health Promotion, and  
 Injury Prevention  
 Undecided—Health Sciences

**School of Nursing**

444 O'Dowd Hall  
 (248) 370-4253

Pre-Nursing  
 Nursing  
 BSN Degree Completion Sequence  
 for Registered Nurses  
 Accelerated Second-Degree BSN  
 Undecided—Nursing

## Oakland University 2005-2006 Academic Calendar

### Fall 2005

Registration	Monday, Tuesday	August 29, 30
New Student Convocation	Wednesday	August 31
Classes begin	5:00 p.m., Wednesday	August 31
Labor Day holiday	Monday	September 5
Thanksgiving Recess begins	10:00 p.m., Wednesday	November 23
Classes resume	7:30 a.m., Monday	November 28
Classes end	5:00 p.m., Wednesday	December 7
Study period	Thursday	December 8
Exams begin	7:30 a.m., Friday	December 9
Exams end	10:00 p.m., Thursday	December 15
Fall Commencement	Saturday	December 17

### Winter 2006

Registration	Tuesday	January 3
Classes begin	7:30 a.m., Wednesday	January 4
Martin Luther King, Jr. Day	Monday (Classes suspended)	January 16
Winter Recess begins	10:00 p.m., Saturday	February 25
Classes resume	7:30 a.m., Monday	March 6
Classes end	10:00 p.m., Tuesday	April 18
Study period	Wednesday	April 19
Exams begin	7:30 a.m., Thursday	April 20
Exams end	10:00 p.m., Wednesday	April 26

### Spring 2006

Registration	Thursday	April 27
Classes begin	7:30 a.m., Monday	May 1
Spring Commencement	Saturday	May 6
Memorial Day holiday	Monday	May 29
Classes end	10:00 p.m., Saturday	June 17
Final exams	Monday - Wednesday	June 19-21

### Summer 2006

Registration	Thursday	June 22
Classes begin	7:30 a.m., Monday	June 26
Independence Day holiday	Monday, Tuesday	July 3, 4
Classes resume	7:30 a.m., Wednesday	July 5
Classes end	10:00 p.m., Saturday	August 12
Final exams	Monday - Wednesday	August 14-16



# INTRODUCTION

Oakland University is a nationally recognized, state-assisted institution of more than 16,900 students offering a diverse set of academic programs, from baccalaureate to doctoral levels. Recognized as one of the country's 110 doctoral research-intensive universities by The Carnegie Foundation for the Advancement of Teaching, Oakland University offers students opportunities to work directly on research projects with expert faculty who bring current knowledge right to the classroom. 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, and schools of Business Administration, Education and Human Services, Engineering and Computer Science, Health Sciences, and Nursing. Oakland also has an active Honors College.

The university's faculty, which numbers more than 400, has a distinguished record of research and scholarship. Faculty members have won some of the most prestigious awards made by government agencies and private foundations. External funding support for academic and student projects now totals nearly \$10.5 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. The Center for Biomedical Research resides in the College of Arts and Sciences. The university takes pride in the many scholarly books and articles written by its faculty and in its contributions to pedagogy and the creative arts. Wherever possible, undergraduate students are involved in research projects, and 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 distinctions in their fields.

Resources available to support scholarly activities of students and faculty include both the library and computing facilities. The Kresge Library, located in the center of campus, houses collections of books, journals, government documents, musical scores and recordings, as well as computer workstations to access an array of digital resources. Computing facilities include a comprehensive distributed environment involving 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 and meet the demands of a highly educated workforce in southeastern Michigan. The university offers world-class cultural activities with emphasis on the professional performing arts. Meadow Brook Theatre is located in Wilson Hall. Meadow Brook Music Festival brings an annual 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. Affiliated with OU's Department of Art and Art History in the College of Arts and Sciences, Meadow Brook Art Gallery exhibits promise something new for art enthusiasts of all ages, interests and passions.

Oakland University was created in 1957 when the late Alfred G. and Matilda R. Wilson donated \$2 million and their 1,500-acre estate 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 a dynamic, student-focused learning environment with integration of liberal and professional studies by a faculty of dedicated scholar-teachers. Oakland prides itself on providing a unique, distinctive undergraduate experience that is complemented by the strength of graduate offerings and research accomplishments. Located in suburban Oakland County, Michigan, Oakland University is easily accessible to millions of Detroit metropolitan area residents. Oakland's relationship with its hometown communities enriches student lives. Through partnership efforts with the City of Rochester, internship opportunities are becoming available and many merchants offer discounts for OU students, alumni and staff. 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 nearly 1,600 residential students in its six residence halls and the student apartment complex. Adjacent to the campus is the Oakland Technology Park, a research park where private-sector companies work hand in hand with higher education. Student research and internship opportunities are also enhanced by the proximity of many Fortune 500 companies.

## 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 and sciences 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 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 and a potential for qualified students exist.

## **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 emotional, social, physical, cultural, ethical and interpersonal domains. In so doing, the university seeks to facilitate the development of those personal

skills which will contribute to informed decision making and productive citizenship. This objective is accomplished through a variety of student enterprises including campus organizations, athletics, and other sponsored activities and events.

Key to its achievement is the provision of a governance system in which students play a meaningful role in 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.

Oakland University is accredited by the North Central Association of Colleges and Schools Commission on Institutions of Higher Education (30 N. LaSalle St., Suite 2400, Chicago, Illinois 60602-2504, 800-621-7440).

# GENERAL INFORMATION

## Admission

### Admission to freshman standing (Apply online @ [www.oakland.edu](http://www.oakland.edu))

Candidates for admission to undergraduate degree programs should have completed high school-level college preparatory work or otherwise demonstrate 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. In some cases, a personal interview may be requested. Students must submit an application and an official copy of their high school transcript for an admission decision to be made.

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 recalculated (academic) 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 recalculated (academic) 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 (maintaining a 3.00 or B average) as well as 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.

Students planning to major in music must audition for the department's faculty. Auditions are held in February and March each year.

Admission to pre-physical therapy standing requires a recalculated (academic) grade point average of 2.80 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 recalculated (academic) 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 may be 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, 248-370-3360). Students can also apply for admission through the Oakland University Web site ([www.oakland.edu](http://www.oakland.edu)). Applications 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-matriculating basis. Students who wish to pursue course work at Oakland University that is not available at their high school must complete the Special High School Student permission form. This form requires the signatures of both parent(s) and a school counselor. An application for undergraduate admission and a copy of the student's current transcript must accompany the permission form. High school students wishing to attend Oakland University must have a 3.00 cumulative grade point average and have a minimum junior standing. Admission is valid for one semester or session only. Students wishing to take subsequent courses must complete the permission form for each semester they plan to enroll. Students whose high schools will be paying for university tuition must submit verification to the Student Accounts Office, 108 North Foundation Hall.

## **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 will 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 Office of International Students and Scholars (248-370-3358) about required transfer and immigration procedures.

## **Admission to guest status**

Students enrolled in good standing 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 enrolled in good standing at 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.

Guest students should consult individual course descriptions in this catalog to determine any prerequisite requirements for registration. Some courses are restricted to Oakland University students who have been admitted to major standing.

### **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 admission 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. A new application and fee are 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 scores of

5 or 4 in advanced placement examinations, and in some cases, also for scores of 3. Students presenting AP courses for credit should be aware that the content of particular courses may not correspond to that of any university courses. In such cases, the AP credit would count toward graduation but may not satisfy any academic program requirements. A statement of policy regarding credits given for particular examinations is available from the Academic Records Office (102 O'Dowd Hall, 248-370-3462).

## 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 Office 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, with 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, with 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 Academic Records Office (102 O'Dowd Hall, 248-370-3452).

## 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 Windows and Macintosh 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 Internet. 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 software applications. Thus, students have many opportunities to develop computer skills and extend their level of computer literacy.



Computer facilities are readily accessible in Kresge Library, Dodge Hall, Oakland Center and Varner Hall. Departmental facilities for student use include journalism labs in Vandenberg Hall and O'Dowd Hall; a language lab and a writing lab, both in Wilson Hall; and a mathematics lab in the Science and Engineering Building.

The university continually upgrades both computer hardware and software for student use and seeks 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. Two 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, Austria taking courses taught in English by American and Viennese faculty. The program in Macerata, Italy, allows students to study one or two semesters in this city, taking courses taught in English, and to live with an Italian family. The program in Nagoya, Japan, established in 1977, features two to four semesters of study at Nanzan University and is based on an exchange of students. 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 up to two years of study in Japan. The program at the University of Oldenburg in Oldenburg, Germany, was established in 2000, and allows students to study one or two semesters, and to live in a dormitory, a shared flat or with a family. All programs provide credits toward baccalaureate degrees. For additional information about these programs, see the *Center for International Programs* portion of this catalog. For information about additional study abroad opportunities, see the *Modern Languages and Literatures* section of the catalog.

## **Oakland University E-Mail**

Oakland University provides each student with free e-mail service and an address. Beginning with the fall 2003 semester, the university implemented a new policy where OU administration will e-mail information, or notices that information is available for students to access on secured Web sites, to students' official Oakland University e-mail address, instead of through the United States Postal Service. This information is important to maintaining a student's relationship with the university and will include grades, tuition bills, schedule of classes and other relevant data. The university will hold students accountable for all information sent via e-mail. Therefore, all registered students should check their Oakland University e-mail account regularly. The university recommends checking in at least once a week. The University Technology Services website (<http://www.oakland.edu/uts>) offers tips and information on how to activate, access and forward your OU e-mail. Oakland University will not sell or give away student e-mail information and will not use e-mail to advertise for third parties.

## **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 2004-05 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. Checks and credit card payments returned by the bank will place students in a non-payment status. A \$25.00 fee will be assessed for returned check or credit card payments.

Students are billed monthly. Payment in full of the total balance due will avoid assessment of a 1.5% monthly late payment fee. If financial obligations to the University have not been met by the specified due dates, the account will be considered delinquent. In order to receive transcripts and/or register for future terms, the student account must be current.

All registrations for a given term are considered to be temporary and tentative, based on satisfactory academic progress and total satisfaction of all financial obligations to the university.

## **Tuition (see course fees for additional information)**

Michigan residents who register as lower-division undergraduates (fewer than 56 total credits) are assessed \$162.25 per credit. Upper-division undergraduates (more than 55 total credits) are assessed \$178.00 per credit. Graduate students are assessed \$303.75 per credit. All students who are classified as nonresidents are assessed tuition at out-of-state rates: \$382.25 per credit for lower-division undergraduate students, \$411.50 per credit for upper-division undergraduate students and \$533.50 per credit for graduate students. All university charges are subject to revision, without prior notice, by action of the Board of Trustees.

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

## **General service fee**

All students who register are assessed a \$147.00 general service fee each term, of which \$57.00 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 and intramurals, as well as maintenance of campus parking lots, roads and walkways.

## **Student activities fee**

All students registered for on-campus credits are charged a \$21.00 Student Activities fee each term. The fee for each of the fall and winter terms is \$21.00, and the fee is \$10.50 for each of the spring and summer terms. Additional information on student activities can be obtained from the Dean of Students Office.

## **Recreation center fee**

All students registered for classes are charged a \$75.00 Recreation Center fee. The fee for each of the fall and winter terms is \$75.00, and the fee is \$47.50 for each of the spring and summer terms. Students registered only for classes that are off site from the main campus will have the fee waived unless they voluntarily pay the fee in order to have access to the recreation center. Additional information on Recreation Center services and fees can be obtained from the Department of Campus Recreation.

## **Course fees**

In addition to tuition, course fees may be charged. The department offering the course determines course fees. Contact the appropriate department with questions:

Typical course fees:

Per 4 credit hour course \$54/course

Courses greater/less than 4 credit hours      \$13.50/credit hour

Course fees are charged for the following specialized courses:

EED 455 and SED 455 .....	\$35/course
Applied Music	
Individual instruction .....	\$85/1 credit, \$170/2-4 credit hours
Group instruction .....	\$25/course
NERI Nursing .....	\$56/semester
Physical Therapy Courses .....	\$43.50/credit hour

### **Course competency by examination fee**

Students who register for degree credit by course competency examination are assessed \$34.00 per credit.

### **Late registration fee**

Students registering during the late registration period for a semester (or session) are assessed an additional non-refundable late registration fee of \$35.00.

### **Late payment penalty**

A 1.5% late payment penalty will be assessed monthly on delinquent outstanding student account balances.

### **Application fee**

Undergraduate Programs: The application fee for undergraduate degree programs is \$40.00. Payment of this fee must accompany the application for admission for all undergraduate degree programs. If an applicant decides to reapply for a later term, a new application and fee must be submitted.

Graduate Programs: The application fee for graduate programs is \$50.00. If an applicant decides to reapply for a later term, a new application and fee must be submitted.

### **Readmission fee**

Students applying for readmission to the university must complete readmission forms and pay the \$40.00 readmission fee for undergraduate and \$50.00 for graduate students. See *Readmission* for additional information.

### **Enrollment deposit**

Students admitted for the fall semester must pay a \$75.00 deposit by May 1 (preceding fall enrollment). The deposit is nonrefundable after May 1. 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. Requests for deposit refunds may be made in writing to the Office of Admissions and Enrollment Management prior to May 1.

### **Graduation service fee**

Degree candidates must file an application-for-degree with the Cashier's Office, 120 North Foundation Hall, or Academic Records Office, 102 O'Dowd Hall, and pay a non-refundable fee of \$30.00 by the deadline established in the *Schedule of Classes* for the semester or term in which a student plans to graduate. Students may apply in the preceding semester or term as well. (see *Undergraduate degree requirements*).

### **Orientation and advising fee**

A \$100.00 orientation and advising fee for freshmen (\$65.00 for transfer students) is charged to cover the expense of orientation and the ongoing advising process. These fees are non-refundable.

## Residential service fees

Residence halls and apartments are financially self-supporting. Housing fees, including room and board, reflect the actual cost of operation and are established by the Oakland University Board of Trustees. The 2005-2006 rate for double room and board is \$6,080, which includes a \$16.00 hall government fee, and is for fall and winter combined. Single room fees, if available, are an additional \$1,090.

University Student Apartments are available for single students who are at least 20 years old. Residents must be 20 years old by December 31, 2005. Students can select from 2-bedroom, 3-bedroom (handicapped accessible), or 4-bedroom apartment styles. The 2005-2006 academic year rate for a 4-bedroom apartment is \$4,910. Students living in the apartments are not required to have a meal program. Voluntary meal plans are available for purchase.

George T. Matthews Family apartments are available for married students and single parent families. All of the apartments are 2-bedroom, townhouse style. The monthly rental rate beginning August 2005 is \$685.

A \$100 non-refundable down payment is due with all housing contracts. This down payment will be credited against the first housing payment. Students who sign a housing contract are committing to a binding agreement for the contract period. The housing fees may be paid in full at registration or paid in installments as specified in the *Schedule of Classes*.

If students withdraw from Oakland University, room and board fees are refunded on a prorated basis less penalty fees as described in the terms and conditions of the contract. Formal notice of withdrawal must be given to the Housing 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 and complete withdrawals from all courses must be submitted either in person or by certified mail to the Registration Office (100 O'Dowd Hall), or by fax (248-370-3461). Students may also drop courses up to the last day to drop as published in the *Schedule of Classes* by using the Student Access Information Line (SAIL) at 248-370-4646 or in person at 100 O'Dowd Hall. 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 (with the exception of September and January when refunds are held until after the date of record for release).

## Educational expenses

Students agree that their unpaid educational expenses, including without limitation tuition and fees, will be charged to their student account, must be paid in accordance with applicable University payment schedules, are subject to late payment fees and are non-dischargeable educational loans and/or benefits pursuant to 11 U.S.C. § 523(a)(8).

## Expelled or suspended student refund policy

When a student is expelled or suspended from the university for disciplinary reasons (either academic or non-academic), the date of the disciplinary violation will be used to determine whether the student is entitled to a refund of any tuition or fees according to the current University Tuition and Fees Refund Schedule. Additionally, residence halls and apartment room and board charges will be pro-rated based on the student's room check-out date.

## Requirements of the Taxpayer's Relief Act of 1997

The Taxpayer's Relief Act of 1997, as amended by the Internal Revenue Service Restructuring and Reform Act of 1998, offers certain American taxpayers some tax relief for specific kinds of payments made to a qualified university. These laws require universities that enroll any individual for any academic period to report specific information annually to the enrolled individual and the Department of the Treasury, including the enrolled individual's name, address and taxpayer identification number (TIN) or social security number (SSN), and the amounts paid to the university (or billed by the university) for the enrolled person during the previous tax year. The university must report this information regardless of whether an enrolled person or other taxpayer intends to claim a credit or deduction for payments to the university. The only exceptions to this reporting requirement apply to (a) non-resident alien individuals, (b) courses for which no academic credit is offered by the university (although reporting is required for students who enroll concurrently in both for-credit and non-credit classes), (c) individuals whose qualified tuition and related expenses are waived in their entirety or paid entirely with scholarships, and (d) individuals whose qualified tuition and related expenses are covered by a formal billing arrangement as defined in the applicable regulations (e.g., a university bills a student's employer for all tuition and expenses and the university does not maintain a separate account for the student). The university must therefore receive your TIN, or SSN before it can conduct billing and receiving transactions with you. The law describing the reporting requirements is 26 U.S.C. § 6050S, and the applicable regulations are located at 26 C.F.R. § 1.6050S-0, et seq.

## Residency classification for admission and tuition purposes

For university purposes, "domicile" is defined as the place where an individual intends his/her true, fixed and permanent home and principal establishment to be, and to which the individual intends to return whenever away. Upon admission to the university, a student is classified either as a Michigan resident or a nonresident based upon information relating to the student's domicile. A determination of Michigan domicile is required for in-state tuition rates to apply, except as stated below.

An individual whose activities and circumstances, as documented to and found by the university, demonstrate that the individual has established a Michigan domicile will be classified as a resident. An individual whose presence in the state is based on activities or circumstances that are indeterminate or temporary, such as (but not limited to) educational pursuits, will be presumed not to be domiciled in Michigan and will be classified as a nonresident. To overcome a presumption of nonresident status, a student must file an Application for Reclassification of Residence Status and document with clear and convincing evidence that a Michigan domicile has been established. The burden of proof is on the applicant.

**Evidence of domicile:** Certain circumstances, although not controlling, support a claim of domicile. Other circumstances create a presumption against domicile.

Circumstances supporting a claim of domicile include:

- Dependence upon a parent domiciled in Michigan as demonstrated by permanent employment and establishment of a household in the state;
- Employment of the student or the student's spouse in Michigan in a full-time, permanent position, and that employment is the primary purpose for the student's presence in Michigan;
- Residence with Michigan relatives who provide more than half of the student's support including educational costs. This necessarily means that no non-Michigan resident claims the student as a dependent for income tax purposes.

The fact that certain indications of domicile may apply to a student does not mean that the student automatically will be classified as a resident or that the student is relieved of the responsibility for filing an application. See *Residency application process* below.

Circumstances that do not in themselves support a claim of domicile include:

- enrollment in high school, community college or university;
- employment that is temporary or short-term military assignment;
- employment in a position normally held by a student;
- ownership or lease of property;
- presence of relatives in the state, except as described above;
- possession of a Michigan driver's license or voter's registration;
- payment of Michigan income or property taxes;
- the applicant's statement of intent to be domiciled in Michigan.

In cases where the university determines that an applicant has not demonstrated establishment of Michigan domicile, unless substantial and new information arises that clearly demonstrates the establishment of domicile, the university will require the applicant to document one year of continuous physical presence in the state as one of the criteria for determining eligibility for resident classification in any subsequent application. The year of continuous presence is never the only criterion used for determining resident eligibility, and, in itself, will not qualify a student for resident status.

In documenting the year of continuous physical presence in Michigan, the applicant will be expected to show actual physical presence by means of enrollment, employment, in-person financial transactions, health care appointments, etc. Having a lease or permanent address in the state does not, in itself, qualify as physical presence. A short-term absence (summer vacation of 21 days or less, spring break and break between fall and winter term), of itself, will not jeopardize compliance with the one-year requirement. In determining the effect of a short term absence, the nature of the absence will be assessed to determine whether it is contrary to an intent to be domiciled in Michigan.

**Presumption of domicile:** Certain circumstances create a presumption of domicile. However, the presence of such a circumstance does not mean that the student will be classified automatically as a Michigan resident or that the student is relieved of the responsibility to file an application. These circumstances include:

**Dependent students:** A student is presumed to be a dependent of his or her parents if the student is 24 years of age or younger and has been primarily involved in educational pursuits or has not been entirely financially self-supporting through employment.

(a) **Residents:** The following applies only if the student has not taken steps to establish a domicile outside of Michigan or any other action inconsistent with maintaining a Michigan domicile.

- A dependent student whose parents are domiciled in Michigan is presumed to be eligible for resident classification.
- A dependent student whose parents are divorced is presumed to be eligible for resident classification purposes if one parent is domiciled in Michigan.
- A student who is living in Michigan and is permanently domiciled in Michigan does not lose residence status if the parents leave Michigan, provided:
  - (i) that the student has completed at least the junior year of high school prior to the parents' departure, and
  - (ii) that the student remains in Michigan, enrolled as a full-time student in high school or an institution of higher education.

(b) **Non-residents:** A dependent student whose parents are domiciled outside the state of Michigan is presumed to be a nonresident.

**Absences from the state:** Individuals domiciled in Michigan immediately preceding certain types of absences from the state may retain their eligibility for resident classification under the following conditions:

- An individual domiciled in Michigan for 5 years just prior to leaving the state for less than one year may return to the university as a resident for admission and tuition purposes.

- An individual domiciled in Michigan at the time of entry into active military duty, missionary work, Peace Corps or similar philanthropic work does not lose eligibility for resident classification as long as he or she is on continuous active duty and continuously claims Michigan as the state of legal residence for income tax purposes. Dependent children of such an individual also are eligible for resident classification provided: (i) that they are coming to the university directly from high school or they have been continuously enrolled in college since graduating from high school, and (ii) that they have not claimed residency elsewhere for tuition purposes.
- An individual who is domiciled in Michigan immediately preceding an absence from the state for full-time enrollment in school or for a medical residency program, internship or fellowship does not lose eligibility for resident classification provided that the individual has maintained significant ties to the state during his or her absence (e.g., parents still in the state, payment of state taxes, active business accounts), and that the individual has not claimed residency for tuition purposes in another state.

**Resident status of aliens:** Notwithstanding the above, except for those aliens holding a permanent resident visa, the only aliens eligible for consideration for classification as a resident are those who are on a visa other than a student visa; and who are engaged in permanent employment in the United States; and whose employer has filed or is in the process of filing for permanent resident status on behalf of the alien. An alien will be eligible for consideration if the alien's parents or spouse meet(s) the alien requirements above and dependent status also exists.

**Application of in-state tuition rates in special circumstances:** Regardless of domicile, in-state tuition rates apply to the following persons:

- Graduate students who hold an assistantship or fellowship awarded through Oakland University;
- Students employed in Michigan in full-time, permanent positions.

**Appeal process:** Any student desiring to challenge his or her initial residency classification may appeal the determination to the Residency Reclassification Appeals Office, 101A O'Dowd Hall, (248-370-3455). The Associate Registrar makes the initial determination of residency. Registrar is the second level of appeal and the Residency Reclassification Appeals Committee is the third level of appeal and is composed of two individuals: Vice Provost for Enrollment Management and a representative from the Provost's Office. The committee convenes only as necessary. The determination of Residency Reclassification Appeals Committee is final.

## Residency application process

It is the student's responsibility to apply for admission under the proper residency classification. If a student indicates Michigan resident status on the admissions application and the admissions office questions that status, the student will be classified as a nonresident and notified of the need to file an Application for Reclassification of Residence Status with the Residency Reclassification Appeals Office. The fact that a student's claim to residency for university purposes is questioned does not necessarily mean that he or she will be ineligible for resident status; it simply means that the student's circumstances must be documented and reviewed. Failure on the part of admissions staff to question a student's claim to resident eligibility does not relieve the student of the responsibility to apply and register under the proper residency classification. Furthermore, the university may audit enrolled or prospective students at any time with regard to eligibility for resident classification and may reclassify students who are registered under an improper residency classification.

The presence of any of the following factors will result in an initial classification as a nonresident:

- Out-of-state employment within the last three years;
- Living out of state at the time of application to the university;
- Attendance or graduation from an out-of-state high school (applies if the individual is 24 year of age or younger);
- Attendance or graduation from an out-of-state high school and involvement in educational pursuits for the majority of time since graduation from high school.

**Residency reclassification documentation:** When filing for reclassification, the following are required:

- a completed application;
- a written signed statement explaining why Michigan is one's true home;
- a letter from the employer of the family member providing the major support for the student stating the family member's position title, when the Michigan employment began, and, for aliens, the status of any application for permanent residency;
- documentation of the Michigan home (lease or home purchase document); and
- application must be submitted 30 days prior to the first day of the term.

Applicants also are responsible for providing any other documentation necessary to support their claim to resident eligibility. Additional documentation may be required by the university.

**Misrepresentation and falsification of information:** Applicants or students who provide false or misleading information or who intentionally omit relevant information in any document relevant to residency eligibility may be subject to legal or disciplinary measures including revocation of admission or expulsion. Students improperly classified as residents based on this type of information will have their residency classification changed and may be retroactively charged nonresident tuition for the period of time they were improperly classified.

## Financial Aid, Scholarships and Student Employment

Oakland University is one of the most affordable universities in the state. Oakland is committed to making a college education possible for all students. The purpose of the financial aid, scholarship and student employment programs at Oakland University is to help students and their families pay for educational expenses. Many programs operate under the assumption that the primary responsibility for financing a college education rests with students and their families. However, a variety of scholarships, grants, loans and student employment opportunities are available through Oakland University, federal, state, local and private sources.

Complete information concerning scholarships, grants, loans and student employment is available on the Oakland University website at [www3.oakland.edu/oakland/financialaid/](http://www3.oakland.edu/oakland/financialaid/). The website also offers access to financial aid forms.

Admitted students are provided with an Oakland University email address. Since financial aid is communicated to students through their Oakland University email address, it is important for admitted students to access their Oakland University email on a regular basis.

### Office hours

The Financial Aid Office, which includes student employment, is located in 120 North Foundation Hall. The office is open from 8:00 a.m. to 5:00 p.m. Monday through Friday. The office is closed during holiday's and holiday breaks. Extended office hours may be announced.



## Applying for financial aid and scholarships

You must be admitted to Oakland University in an eligible degree or certificate program of study to be considered for financial aid including scholarships, grants, loans and student employment. Your application for admission automatically serves as an initial application for scholarships. High school students admitted by December 1 of their senior year receive full scholarship consideration. Scholarships for transfer and returning students vary. Many scholarships are automatically renewable provided renewal criteria is met.

To be considered for federal, state, or need-based aid, you must complete the Free Application for Federal Student Aid (FAFSA). It is recommended that you complete the FAFSA over the Internet at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). To maximize your financial aid award package, we recommend you complete your application as soon as possible after January 1 for the upcoming academic year. Since some financial aid is awarded on a first come, first served basis as funding is available, it is beneficial to apply early. (If you qualified for the Michigan Competitive Scholarship, your FAFSA must be received by March 1.) Be sure to include Oakland University's federal school code of 002307 on your FAFSA. If you provide an email address on your FAFSA for the U.S. Department of Education, it is important for you to keep your email address updated in order to receive communications from them. The email address you provide to the U.S. Department of Education might be different than your OU email address.

You must include your social security number on your FAFSA for the U.S. Department of Education to process your application. Although you are not required to provide OU with your social security number, OU must have your social security number to process federal aid and for student employment purposes.

You do not need to wait until your income tax forms are completed to complete the FAFSA. You can use estimates of your income and make corrections when your tax forms are completed. It is very important for your FAFSA to be accurate. Inaccurate information can cause delays in processing.

Financial aid award notifications are sent to your Oakland University email address beginning the end of March for the upcoming academic year. Financial aid awards and adjustments continue as needed throughout the year as subsequent funding and information become available. Financial aid notifications provide information concerning the amount and type of financial aid you are eligible to receive. Financial Aid is initially offered for the regular academic year of fall and winter semesters. If you are interested in receiving financial aid for the spring and summer semesters, you need to complete a Spring and Summer Financial Aid Application available on the financial aid website.

The Financial Aid Office might need additional information or documentation from you to support your financial aid awards and package. It is important to respond to any request promptly. Delays in providing information and documentation to the Financial Aid Office may affect your financial aid award package and/or the transfer of funds to your student account.

You must complete a FAFSA each year in which you are interested in receiving financial aid.

## Unusual circumstances/dependency status

Extenuating family circumstances such as long term loss of employment or income, death, separation or divorce, medical/dental expenses not covered by insurance and dependent student relationship with parent(s) can affect a student's financial aid package. If you would like a review of your financial aid because you have extenuating circumstances, an Unusual Circumstances/Dependency Status Appeal Form is available on the financial aid website. Changes in the income of a dependent student are not considered for review.

## Types of financial aid

### Scholarships

Financial aid that is not repaid if all requirements are met. Awards are based on merit.

### Grants

Financial aid that is not repaid. Awards are based on financial need.

### Work study (student employment)

Students work and earn money to help pay educational expenses.

### Loans

Money that is borrowed and must be repaid. Students and parents of dependent students can borrow. Loans may accrue interest.

## Sources of Financial Aid

### Federal financial aid programs (requires completion of the FAFSA)

#### Federal Pell Grants

Eligibility for this program is determined by the U.S. Department of Education and limited to students seeking their first undergraduate degree. Grants range from a minimum of \$400 to a maximum of \$4,050 (for the 2005-06 school year).

#### Federal Supplemental Education Opportunity Grant (SEOG)

The SEOG program is for students who have not yet earned their first undergraduate degree, demonstrate exceptional financial need and who are enrolled at least half time. The grant cannot be less than \$100 or more than \$4,000 per year as determined by the institution.

#### Federal Perkins Loan

The Perkins Loan Program is a low interest (5%) loan to assist students who demonstrate exceptional financial need and are enrolled at least half time. The Federal Perkins Loan does not accrue interest until repayment begins. The maximum annual loan amount limit for an undergraduate student is \$3,000 and the limit for a graduate or professional student is \$5,000. Repayment begins nine months after graduation, withdrawal or enrollment less than half-time. Students may be allowed up to 10 years to repay the loan based upon the amount borrowed. Tax credit incentives, deferment options and cancellation are available.

#### Federal Work-Study

The Federal Work-Study program provides jobs for undergraduate and graduate students with financial need and who are enrolled at least half time. Jobs are available on and off campus. Students need to work to earn the award. A Federal Work Study award does not guarantee a job.

#### Federal Direct Stafford Loan Program

The Federal Direct Stafford Loan Program is designed to provide loans to undergraduate and graduate students enrolled at least half time. Eligibility for the subsidized Direct Loan is based on financial need. Eligibility for the unsubsidized Direct Loan is not based on

financial need. Students are awarded the maximum eligible subsidized Direct Loan before receiving an unsubsidized Direct Loan award. The annual loan amount depends on grade level and dependency status. Loans may be prorated if the remaining period of study is less than two semesters in one academic year.

#### Annual loan limits for Federal Direct Stafford Subsidized and Unsubsidized Loans

Grade Level	Dependent Undergraduate	Independent Undergraduate	Graduate/ Professional
Freshman (1-27 completed credits)	\$2,625	\$6,625-Up to \$2,625 can be subsidized	
Sophomore (28-55 completed credits)	\$3,500	\$7,500-Up to \$3,500 can be subsidized	
Junior/Senior (56-or more completed credits)	\$5,500	\$10,500-Up to \$5,500 can be subsidized	
Second Degree/ Teacher Certification	\$5,500	\$10,500-Up to \$5,500 can be subsidized	
Graduate/Doctoral Professional Certificate			\$18,500-Up to \$8,500 can be subsidized
Maximum Total	\$23,000	\$46,000-Up to \$23,000 can be subsidized	\$138,500-Up to \$65,500 can be subsidized; limit includes loans received as an undergraduate

Repayment of Federal Direct Loans begins six months after a student drops below half-time enrollment, withdraws or graduates.

A subsidized loan does not accrue interest before repayment begins or during authorized periods of deferment. An unsubsidized loan accrues interest from the time the loan is disbursed until it is paid in full. Interest that accrues while in school or during other periods of nonpayment is capitalized on the balance of the loan. The interest rate is variable and reevaluated every year but it will not exceed 8.25 %. For July 1, 2004 to June 30, 2005 the interest rate for loans in repayment was 3.37 % and the interest rate on unsubsidized loans while in school was 2.77%. A fee of 3% with a 1.5% rebate (net 1.5% fee) is deducted from the loan prior to disbursement. You must fulfill repayment requirements to retain the rebate.

Students who receive Direct Loans are required to have entrance loan counseling before they receive their first loan disbursement and exit loan counseling before they leave the University. Loan counseling is available on the web at [www.ed.gov/DirectLoan/](http://www.ed.gov/DirectLoan/). A loan counseling session offers information regarding repayment options, debt management strategies and borrower responsibilities. These topics are discussed with borrowers to prevent them from defaulting on their loans during repayment periods. If you default on a loan, the federal and state governments may assess penalties such as assignment to a collection agency, withholding of state and federal tax refunds, or initiation of legal action. In addition, Oakland University will not release your academic transcript.

First time borrowers of Federal Direct Stafford Loans are required to complete a promissory note. Promissory notes are available on the web at [dlenote.ed.gov](http://dlenote.ed.gov). If you wish to complete a paper promissory note, submit a request in writing to the Financial Aid Office.

## **Federal Direct Student Loans for Parents (PLUS Loans)**

The Federal Direct PLUS Loan Program is not based on financial need and allows a parent of a dependent student enrolled at least half time to borrow for education expenses. The Request for Federal Direct PLUS Loan for Fall/Winter and/or Spring/Summer is available on the financial aid website.

Parents may borrow up to the estimated cost of attendance less other financial aid.

The interest rate is variable and reevaluated each year but it will not exceed 9%. For the period July 1, 2004 to June 30, 2005 the interest rate is 4.17%.

A fee of 4% with a 1.5% rebate (net 2.5%) is deducted from the loan prior to disbursement. You must fulfill repayment requirements to retain the rebate.

Repayment begins within 60 days of the final disbursement. Several different payment plans are available.

## **State of Michigan programs (requires FAFSA completion)**

### **Michigan Competitive Scholarship**

Initial qualification is based upon performance on the ACT examination taken, while in high school. Scholarship recipients must be a Michigan high school graduate, demonstrate financial need, enrolled at least half time and meet the general eligibility requirements established by the state legislature. Maximum award is \$1,300 based on the 2004-05 school year and can be used for tuition only. The FAFSA must be received by March 1.

### **Michigan Merit Award Scholarship**

The Michigan Merit Award Scholarship is a merit-based scholarship program for Michigan high school graduates. To be eligible for the program, a student must take the Michigan Education Assessment Program (MEAP) High School Tests (HST) in mathematics, reading, science and writing and score a Level 1 or 2 on all four tests (eligibility may be satisfied through other tests). A \$2,500 scholarship is available to be received over a two-year period. (Note: The Michigan Merit Award Scholarship does not require completion of the FAFSA.)

### **Michigan Nursing Scholarship**

To be eligible for a Michigan Nursing Scholarship a student must be a State of Michigan resident, have graduated from high school (or GED), be enrolled during the award period in a Nursing Degree program or a program leading to a nursing degree for licensure in the state of Michigan. Awards are available for up to \$4,000. At least half time enrollment is required. The scholarship includes a work requirement. If the work requirement is not satisfied, the scholarship becomes a loan.

### **Michigan Educational Opportunity Grant (MEOG)**

The MEOG Program is designed to provide grant assistance for up to \$1,000 for needy undergraduate students who are Michigan residents and are enrolled at least half time.

### Michigan Work Study Program

The Michigan Work-Study Program provides jobs for undergraduate and graduate students with financial need, enrolled at least half time who are Michigan residents. Students need to work to earn the award. A Michigan Work Study award does not guarantee a job.

### Michigan Adult Part-Time Grant Program

Michigan Adult Part-Time Grant awards are available for up to \$600 per year for not more than two years for adult, undergraduate students who are Michigan residents and enrolled in 3 to 11 credit hours).

### Local and private resources

Many organizations and private agencies support student financial aid assistance programs. Some of these are local social groups, professional associations, civic organizations, corporations, churches and unions. Information on these programs vary greatly. Additional information may be obtained from the sponsoring organizations, high school counseling offices and the Financial Aid Office website.

## Oakland University Programs

### Oakland University grants

The Oakland University grants are available to high-need, who are enrolled full-time in their first undergraduate degree program. To be considered, complete a FAFSA.

### Oakland University 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. Most scholarships are awarded on the basis of accomplishment and are not contingent upon financial need, although completion of the FAFSA is encouraged for maximum consideration of all scholarships. Many awards are made in early spring for the upcoming academic year and are only available to students entering in the fall semester. Awards are divided between the Fall and Winter semesters and require full-time enrollment. Awards are not applicable to the Spring and Summer semesters.

If a scholarship is renewable, a renewal application is not required unless otherwise stated. Renewals may be subject to the availability of funding.

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

**Anibal-Burgum Scholarship:** Recognizes high academic performance of entering high school students. Students must have a minimum 3.50 high school GPA. The scholarship may be renewed by maintaining a cumulative 3.25 GPA, maintaining continuous full-time enrollment during the Fall and Winter semesters and advancing an academic grade level by the end of the Winter semester. The maximum award is for eight successive Fall and Winter semesters.

**Auburn Hills Scholarship:** Awarded annually to students graduating from high schools serving the city of Auburn Hills. Awards are based on academic excellence and are renewable by maintaining a cumulative 2.50 GPA, maintaining continuous full-time enrollment during the Fall and Winter semesters and advancing an academic grade level by the end of the Winter semester. The maximum award is for eight successive Fall and Winter semesters.

**Carrell T. Sherman Scholarship:** Awarded to an academically promising student from Macomb County who demonstrates financial need. Preference will be given to students who come from farm families. Awards are renewable by maintaining continuous full-time enrollment during the Fall and Winter semesters and advancing an academic grade level by the end of the Winter semester. The maximum award is for eight successive Fall and Winter semesters.

**David and Marion Handleman Opportunity Scholarship:** Awarded to entering high school students who, exhibit academic promise and financial need. Scholarships are renewable provided the recipient meets the requirements of the SAP policy for financial aid, maintain continuous full-time enrollment during the Fall and Winter semesters and advance a grade level by the end of each Winter semester. The maximum award is for eight successive Fall and Winter semesters.

**David and Marion Handleman Scholarship:** Awarded to an entering high school academic achiever and leader with a minimum 3.30 GPA and 26 ACT. Students must demonstrate financial need. Scholarship may be renewable by maintaining a cumulative 3.00 GPA, maintaining continuous full-time enrollment during the Fall and Winter semester and advancing an academic grade level by the end of the Winter semester. The maximum award is for eight successive Fall and Winter semesters.

**Detroit Compact Scholarship:** Awarded to graduating Detroit Compact high school seniors who have met Detroit Compact criteria which includes a 3.00 high school GPA and a composite score of 21 on the ACT. Scholarships may be renewed for a total of eight successive Fall and Winter semesters, maintain a cumulative 2.50 GPA, maintain continuous full-time enrollment during the Fall and Winter semesters completing a minimum of 24 credits.

**Dorothy and Walton Lewis Scholarship:** Awarded to an academically promising student from Detroit who demonstrates financial need. The scholarship is renewable by maintaining continuous full-time enrollment during the Fall and Winter semesters and advancing an academic grade level by the end of the Winter semester. The maximum award is for eight successive Fall and Winter semesters.

**Florine Trumbull Scholarship:** Recognizes academic achievement of entering students. Recipients must be graduates of Michigan high schools. Scholarships may be renewed by maintaining a 3.00 GPA, maintaining continuous full-time enrollment during the Fall and Winter semesters and advancing an academic grade level by the end of the Winter semester. The maximum award is for eight successive Fall and Winter semesters.

**George and Lottie Ford Scholarship:** Awarded to an academically promising minority student from Oakland County. The recipient must enroll full-time in a program of professional study. The scholarship is renewable by maintaining continuous full-time enrollment during the Fall and Winter semester and advancing an academic grade level by the end of the Winter semester. The maximum award is for eight successive Fall and Winter semesters.

**Isaac Jones Memorial Scholarship:** Awarded to an academically promising student from Pontiac. The scholarship may be renewed by maintaining continuous full-time enrollment during the Fall and Winter semester and advancing an academic grade level by the end of the Winter semester. The maximum award is for eight successive Fall and Winter semesters.

**Kurtis Kendall Memorial Scholarship:** Recognizes achievement in the sciences for high school students with goals of research in medical areas. Students should have a minimum of 3.40 high school GPA. Scholarships may be renewed for a total of eight successive Fall and Winter semesters as long as a recipient maintains a 3.25 GPA, continues to major in the sciences and maintains continuous full-time enrollment during the Fall and Winter semesters.

- 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 scholarship is renewable by maintaining continuous full-time enrollment during the Fall and Winter semester and advancing an academic grade level by the end of the Winter semester. The maximum award is for eight successive Fall and Winter semesters.
- Oakland University Presidential Scholarship:** Awarded each year to high school students in recognition of outstanding academic achievement and citizenship. Students 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 successive Fall and Winter semester, maintain continuous full-time enrollment during the Fall and Winter semester and advance an academic grade level by the end of the Winter semester.
- Oakland University Talented Scholar Award:** Awarded to high school students in recognition of outstanding academic achievement. Scholarships may be received for a total of eight successive Fall and Winter semesters as long as a cumulative 3.25 GPA is maintained, continuously enrolled full-time during the Fall and Winter semesters and advance an academic grade level by the end of the Winter semester.
- Oakland University Talented Scholar Award 1:** Awarded to high school students in recognition of outstanding academic achievement. Nonrenewable.
- Oakland University Academic Achievement:** Awarded to high school students in recognition of outstanding academic achievement. Nonrenewable.
- Oakland University Trustee Academic Success Scholarship:** Recognizes academic performance of entering high school students, who must have a GPA of 3.00 and an ACT score of 22, and transfer students, who must have a GPA of 3.00. The scholarship may be received for a total of eight semesters as long as a 2.30 GPA is maintained.
- Oakland University Tuition Differential Scholarship:** Awarded to out of state U.S. citizens or permanent residents who are a graduate of a U.S. high school; to citizens of Canada who are a graduate of a Canadian high school and meet all SEVIS requirements for a F-1, A-1 or H-1 visa; and to citizens of Mexico who are a graduate of a Mexican high school, score 550 on a paper-based or 213 on a computer-based TOEFL or meet other English Proficiency requirements, and meet all SEVIS requirements of a F-1, A-1, or H-1 visa. The scholarship is in recognition of academic achievement. Recipients are required to reside on campus in Oakland University student housing. Scholarships may be received for a total of eight successive fall and winter semesters, recipients must maintain a cumulative 2.00 GPA, maintain continuous full-time enrollment during the fall and winter semesters and advance an academic grade level by the end of the Winter semester.
- Phi Theta Kappa Scholarship:** Recognizes academic achievement of students transferring from accredited community colleges or junior colleges in Michigan. Students should have a minimum GPA of 3.50 for all college credit earned and at least 56 semester hours of transferable work. Scholarships may be renewed for an additional year (Fall and Winter semesters) by maintaining continuous full time enrollment during the Fall and Winter semester and by maintaining a cumulative 3.00 GPA.
- Pontiac Central High School:** Awarded to a graduate of Pontiac Central High School with a minimum 3.00 high school GPA and a minimum 23 ACT.
- Stephan Sharf Endowed Scholarship:** Awarded annually to an employee of DaimlerChrysler Corporation or a son or daughter of an employee of DaimlerChrysler Corporation.

**The Varner Scholarships:** Scholarship is awarded to first year students entering the College of Arts and Sciences. Recipients are chosen on the basis of their high school academic record, ACT scores, and demonstrated leadership qualities and achievements. The Dean of the College of Arts and Sciences selects the recipients for this full tuition, room and board scholarship. Recipients also receive \$2,500 for research, creativity or for related travel. Each Varner Scholar will be assigned a faculty mentor to support these activities.

**Wade McCree Incentive Scholarship:** Awarded to graduating high school seniors who have participated in the Wade McCree Incentive Scholarship Program during high school and who have a 3.00 high school GPA and a composite score of 21 on the ACT. Scholarships may be renewed for a total of eight successive Fall and Winter semesters, maintain a cumulative 2.50 GPA, maintain continuous full-time enrollment during the Fall and Winter semesters completing a minimum of 24 credits.

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.

**Crittenton Hospital Medical Center Endowed Fund:** Awarded to students with a declared major in Nursing and a minimum GPA of 3.0. Sophomores, juniors, and seniors may apply. For additional requirements and information, contact the School of Nursing Advising Office.

**Daniel Robert Weinerth Endowed Scholarship Fund:** Awarded to a student-athlete participating in the University's soccer program until his or her graduation as long as he or she maintains eligibility under NCAA rules.

**Dorothy Price Endowed Nursing Scholarship:** Awarded to students with a declared major in Nursing, who have completed at least 8 credit hours at Oakland University with a minimum GPA of 3.0. For additional requirements and information, contact the School of Nursing Advising Office.

**Donna and Walt Young Study Abroad Endowed Scholarship Fund:** Awarded to Honors College students participating in the University's undergraduate study abroad program to assist with tuition, books, fees, airfare, or other transportation or housing costs. Students must be enrolled and in good standing in the University's Honors College and may be full or part-time students. Students must maintain a 3.5 GPA or better, have sophomore or junior class standing, and have an educational plan approved by a faculty member. Preference may be given to students demonstrating leadership roles in one of the following: campus activities, employment, or community involvement, and to those who are employed at least 10 hours per week.

**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.



**James A. Sharp and Tessie Baltrip Sharp Endowed Fund for Oakland University:**

Awarded each to students who (a) may need emergency student loans; or (b) are underrepresented and demonstrate financial need to pay for costs associated with undergraduate research, or with international educational opportunities. Apply for emergency loans in the Center for Multicultural Initiatives. Apply for financial assistance with undergraduate research in the Office of Academic Affairs. Apply for financial assistance with international study opportunities in the Office for International Education. The research and international study awards are limited to \$500.

**Lori A. Macauley Athletic Scholarship Endowed Fund:** Awarded to a student-athlete participating in the Division I men's basketball program at Oakland University. Student must be in compliance with NCAA rules and may have freshman, sophomore, junior, or senior class standing.

**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 Van Sell Women's Studies Endowment:** Awarded to students demonstrating evidence of service to the improvement in the well-being of women and who have a minimum 3.5 GPA (high school or college). For additional requirements and information, contact the Women's Studies Office in the College of Art and Sciences.

**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.

**Nancy Schucart Molasky Scholarship:** Awarded each year to an incoming student showing outstanding promise in vocal music.

**Oakland University Music, Theatre and Dance Scholarship:** Awarded to freshmen or community college transfer students with exceptional performance ability. Applicants must audition at the request of 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.

**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.

**School of Education and Human Services Undergraduate Tuition Award:** Awarded annually to students enrolled in the School. Student must be enrolled full-time (12 hours or more) in Elementary Education or Human Resources Development and maintain a minimum 2.8 GPA. Student must demonstrate commitment to the field, community service, and academic achievement. Information is available from the School's Advising Office.

The alumni of Oakland University support a number of scholarships through their contributions. Application information is available on the OU Alumni web site at [www.oakland.edu](http://www.oakland.edu). The alumni scholarships include the following:

**Black Alumni Scholarship:** One non-renewable scholarship is awarded annually in the amount of \$2,000 to a qualified junior or senior. The recipient must be enrolled as a full time student and have a 3.0 GPA in their major and a cumulative 3.0 GPA at Oakland.

- College of Arts and Sciences Alumni Scholarship:** One non-renewable scholarship is awarded annually in the amount of \$2,000 to a qualified junior or senior majoring in the arts and sciences. The recipient must be enrolled as a full-time student and have a 3.00 GPA in their major and a cumulative 3.00 GPA at Oakland.
- Frances C. Amos School of Business Alumni Scholarship:** Awarded each year to a junior or senior with major standing in the School of Business in the amount of \$1,500 per semester. To qualify a student must be full-time and maintain at least a 3.40 GPA in the School of Business and a cumulative 3.40 GPA at Oakland. The scholarship is renewable for up to two academic years.
- Thomas A. Yatooma Engineering Alumni Memorial Scholarship:** Awarded each year to a student with major standing in the School of Engineering and Computer Science in the amount of \$2,000 per year. To qualify a student must be full-time and achieved sophomore status maintaining a cumulative 3.25 GPA at Oakland University.
- Honors College Alumni Scholarship:** One non-renewable scholarship is awarded annually in the amount of \$2,000 to a qualified junior or senior majoring in the Honors College. The recipient must be enrolled as a full-time student and have a 3.00 GPA in their major and a cumulative 3.00 GPA at Oakland.
- Legacy Scholarship:** This scholarship opportunity is offered exclusively to students whose parents or grandparents are an Oakland University alumni or alumnus who is a current member of the Oakland University Alumni Association. The recipient must be a freshman or freshman student who will attend OU during their sophomore year. The recipient must be full-time and have a cumulative high school or undergraduate GPA of at least 3.0 or an ACT score of at least 21.
- School of Business Administration Alumni Scholarship:** One non-renewable scholarship is awarded annually in the amount of \$2,000 to a qualified junior or senior majoring in the School of Business. The recipient must be enrolled as a full-time student and have a 3.00 GPA in their major and a cumulative 3.00 GPA at Oakland.
- School of Education and Human Services Alumni Scholarship:** One non-renewable scholarship is awarded annually in the amount of \$2,000 to a qualified junior or senior majoring in the School of Education and Human Services. The recipient must be enrolled as a full-time student and have a 3.00 GPA in their major and a cumulative 3.00 GPA at Oakland.
- School of Engineering and Computer Science Alumni Scholarship:** One non-renewable scholarship is awarded annually in the amount of \$2,000 to a qualified junior or senior majoring in the School of Engineering and Computer Science. The recipient must be enrolled as a full-time student and have a 3.00 GPA in their major and a cumulative 3.00 GPA at Oakland.
- School of Health Sciences Alumni Scholarship:** One non-renewable scholarship is awarded annually in the amount of \$2,000 to a qualified junior or senior majoring in the School of Health Sciences. The recipient must be enrolled as a full-time student and have a 3.00 GPA in their major and a cumulative 3.00 GPA at Oakland.
- School of Nursing Alumni Scholarship:** One non-renewable scholarship is awarded annually in the amount of \$2,000 to a qualified junior or senior majoring in the School of Nursing. The recipient must be enrolled as a full-time student and have a 3.00 GPA in their major and a cumulative 3.00 GPA at Oakland.

A variety of other scholarships and grants recognizing academic achievement, major criteria, interests of the student and financial need are available:

**ArvinMeritor, Inc. Scholarship:** Two \$2,500 partial scholarships awarded annually to mechanical engineering students of diverse backgrounds and/or female mechanical engineering students. Recipients will have completed their sophomore year and maintain in a minimum cumulative GPA of 3.00.

**Bunting and Briggs Freedom of the Press Scholarship:** A scholarship awarded to a student majoring in journalism who plans to work as a reporter upon graduation and is currently employed at least 20 hours per week at a professional newspaper or works for an Oakland University student newspaper in a staff writer or editor capacity. The recipient is selected by the Journalism faculty and the award amount varies.

**Campus Activity Awards:** These awards promote the development of campus-wide student leadership. Up to 15 awards are given by the Dean of Students. Some awards are attached to elected or appointed leadership positions, others based on leadership projects approved through the Dean of Students' office. Two leadership awards are available through the Center for Student Activities (CSA). Students must have a minimum 2.00 GPA; be enrolled full time (at least 12 credits) for each semester receiving the award, must be elected or appointed to the position(s) having the awards attached to them, or appointed to complete a particular leadership project. Applications are available in March. Information concerning these awards is available from the Dean of Students and the Center for Student Activities and Leadership 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.

**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.

**College of Arts and Sciences Dean's Scholarship:** Scholarship is for an incoming first-year student entering the College of Arts and Sciences. The award goes to a student with exceptional high school record achievements. Recipients will be chosen on the basis of their high school GPA, ACT scores, and demonstrated leadership qualities. The Dean of the College of Arts and Sciences will select the recipients with appropriate consultation.

**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 Awards:** These awards recognize those commuting students who may have made contributions to improve the quality of campus life through their participation in campus activities and student organizations. These awards are given for one academic year in the amount of \$250 per semester (\$500 per academic year). Recipients must reapply each year to renew their awards. Applicants must: have attended OU for one year; have a GPA of 2.50 at the start of the academic year for which the award is given; carry 12 credits for each semester the award is received; and remain in good disciplinary standing. Nominations are in March.
- Diane and Michael Grieves Diversity Scholarship:** Awarded annually to a student pursuing a degree in Management Information Systems. Selection will be based upon academic achievement, leadership potential and contributions made toward the achievement of an ethnically and geographically diverse student body.
- Dicron Tafrahan 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.
- Donald C. Hildum Endowed Scholarship in Communication:** Awarded to communication students who demonstrate academic promise. Consideration is also given to student contributions to university and community life and financial need.
- 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.)
- Doris J. Dressler Scholarship:** Scholarship of at least \$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 the Department of English.
- Elizabeth Glass Memorial Academic Progress Award:** Award available to entering freshmen who have completed Oakland's Project Upward Bound program while in high school. The award is not renewable and the amounts vary. (This award is not available to students who have completed Upward Bound programs at other institutions.)
- 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 banking career. 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 of 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.
- George T. Matthews Scholarship in History:** A \$1,000 scholarship awarded annually to a qualified student majoring in history.
- 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.
- Haden, Incorporated Keeper of the Dream Scholarship:** Awarded annually in the amount of \$5,000 to a student who has demonstrated strong citizenship and leadership in interracial issues. Information regarding the nomination/application process is available in the office of the Dean of Students.

**Henry Baskin Scholarship:** Scholarships are available for students who do not qualify for other financial aid or scholarships who will have financial difficulty in making the dream of an undergraduate degree a reality. Preference is given to students from single parent households and single parent families. To apply for the scholarship, complete the Free Application for Federal Student Aid (FAFSA).

**Holzbock Humanities Scholarship:** Scholarships in the amount of \$3,000 awarded annually to upper division students majoring in the humanities. Up to five scholarships may be awarded and recipients are selected by faculty from the College of Arts and Sciences.

**Honors College Scholarship:** Awarded to current Honors College juniors and seniors. Selection is based upon demonstrated need, academic achievement and continued membership in the Honors College. Awards range from \$250 to \$2,000.

**ITT Industries 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.

**Ivan and Christine Wilcox Scholarship:** A full tuition scholarship awarded annually to an undergraduate student majoring in engineering. The scholarship is renewable and preference is given to a student majoring in Mechanical Engineering.

**J. Alford Jones Memorial Scholarship:** Awarded to students entering the Honors College. 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. Recipients must demonstrate financial need. 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.

**Katke Invitational Automotive Scholarship:** A scholarship awarded annually to a student in the School of Business Administration studying in an "automobile related" field. The award amount varies.

**Keener of the Dream Awards:** These awards, established in January 1993, recognize OU continuing students who have contributed to interracial understanding and good will. Awards ranging from \$2,500 - \$5,000 are available to students who have demonstrated strong citizenship, scholarship, and leadership in breaking down cultural stereotypes and in promoting interracial understanding. Nominees must have a current cumulative GPA of 3.00 and demonstrated campus involvement. Nominations are in October. Information on this scholarship is available from the Office of the Dean of Students.

**Ken Morris Center for the Study of Labor and Work Scholarship:** Awarded to a student minoring in Labor and Employment studies. Recipients are selected by the advisory board of the Ken Morris Center. Information regarding the scholarship is available from the Department of Human Resource Development in the School of Education and Human Services.

**Lambda Chi Omega Beta Omega Chapter Endowment Award:** Awarded annually to full-time student(s) residing in Oakland County. Applications are available from the Financial Aid Office and have a deadline of April 1 of each year. Award amount varies and may be renewed if the applicant maintains a minimum 2.50 GPA.

- 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.
- Mildred B. Matthews Scholarship in Art History:** Created to honor Mildred Gregory Byers Matthews, the wife of George T. Matthews, a charter member of the Oakland University faculty, this \$500 tuition scholarship is awarded annually. The applicants must be declared an art history major in good standing, must have been enrolled in classes at Oakland University for two consecutive (fall/winter) semesters, have completed 20 credit hours in art history prior to application, and must have demonstrated citizenship within the department or field.
- NHK International Corporation Scholarship:** A \$2,000 scholarship awarded annually to a full-time undergraduate or graduate student in the School of Engineering and Computer Science whose GPA is at least 3.20 and who has demonstrated professionalism, the ability to work with others and a potential to contribute to the quality of academic and student life.
- Nightingale Scholarship:** One scholarship in the amount of \$2,500 awarded to junior nursing students with a GPA of 3.50 or above. Selection will be based upon academic achievement and involvement in student and community activities. Applications are available from the School of Nursing. Renewal of scholarship for senior year is contingent on satisfactory completion of junior year.
- 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 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 at the request of the Department of Music, Theatre and Dance. Award amounts vary and are renewable.
- Mary Joyce Pagano Memorial Award Endowment:** Awarded to teacher preparation candidates (elementary and/or secondary education) that have requested and been assigned a student teaching assignment in the Pontiac school district, or other urban school districts. Students must maintain a 3.0 GPA. Information is available from the School of Education and Human Services Advising Office.
- 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 the 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.

- Professional Biochemistry Scholarship:** A scholarship of \$1,000 awarded annually to a junior biochemistry major who shows great promise for achievement in biochemistry. The recipient is chosen by the faculty of the Interdepartmental Biochemistry Committee. The award is sponsored by Oxford Biomedical Research, Inc.
- 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 Laboratories Scholarship:** Awarded to juniors/seniors who have demonstrated an interest in occupational health or safety. Students must have consistently been listed on School of Health Sciences Deans List. The scholarship is renewable based on recommendation from the School of Health Sciences.
- Scherer Student Fund:** Scholarship awarded to a student entering the junior year who is majoring in sociology and anthropology. The basis of eligibility will be financial need. Recipient must have a grade point average in the major of at least 3.00.
- Stephan and Rita Sharf Scholarship:** A scholarship awarded annually to an upper division student who will be enrolled full-time in the School of Business Administration. Selection is based upon academic achievement and demonstrated financial need. The award amount varies.
- Stephen K. Hall Scholarship:** Awarded to Industrial Health and Safety students in the School of Health Sciences. Student must maintain a minimum 3.50 GPA for initial scholarship and for continued awards. The scholarship is renewable based on recommendation from the School of Health Sciences.
- 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.
- The Oakland Press Scholarship:** Scholarship of up to \$3,000 awarded to a journalism major who is a junior and has a GPA above 3.00 and plans a career in print journalism. The award recognizes the work of the Department of Rhetoric, Communication and Journalism in training journalists for future careers at daily newspapers such as The Oakland Press.
- Vicente Fox Quesada Endowed Fund:** This endowed fund, honoring the President of Mexico and Mexico's rich culture and heritage, provides scholarship support for international study or cross-cultural opportunities in Mexico or the United States. The scholarships are available to students in undergraduate or graduate degree programs or continuing education programs. Applications are available at the Office of International Education and are reviewed annually during the winter semester.
- W. Edwards Deming Scholarship:** A scholarship awarded to an undergraduate or graduate student with the potential and career interest in becoming a practicing statistician. The award amount varies.
- William Beaumont Hospital Keeper of the Dream Scholarship:** Awarded annually in the amount of \$5,000 to a student who has demonstrated strong citizenship and leadership in interracial issues. Information regarding the nomination/application process is available in the office of the Dean of Students.
- 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 February.

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

## The costs of attending Oakland University

The cost to attend Oakland University includes tuition and fees, books, room and board, transportation and personal expenses. Costs are estimated because of the variety of the number of enrolled credits, housing options, class standing, etc. Financial aid packages are created based on an estimate of the average expected cost for a full time student and a part time student.

The estimated cost of attendance for full-time, in-state, freshmen and sophomore students are as follows (based on the 2004-05 school year):

	On campus/off campus not living with parent	Commuter living with parent
Tuition	\$4,530	\$4,530
Fees	498	498
Books and Supplies	722	722
Room and Board	5,820	1,746
Transportation/Misc.	1,742	1,742
Direct Loan Fees	<u>72</u>	<u>72</u>
<b>TOTAL</b>	<b>\$13,384</b>	<b>\$9,310</b>

Tuition was based on an average full-time enrollment of 14 credits per semester (28 per academic year which includes Fall and Winter semesters). For tuition and fee charges for juniors and seniors, add \$443. (Refer to the Schedule of Classes for current tuition.)

Full-time students who are not Michigan residents are charged additional estimated tuition as follows:

Freshmen and sophomores .....	\$6,430
Juniors and seniors .....	\$6,825

Direct costs to Oakland University include tuition and fees and on-campus housing. Books, supplies and transportation/miscellaneous costs are not paid to Oakland University; however, they are expenses you will incur.

Financial aid can be awarded up to your estimated cost of attendance.

Students are encouraged to enroll in a minimum of 31 or more credits a year in order to complete degree requirements within four years. For financial aid purposes, however, the following enrollment requirements determine eligibility for financial aid each semester:



Undergraduate Enrollment	Fall credits	Winter credits	Spring credits	Summer credits
Full-time	12 or more	12 or more	7 or more	7 or more
Three-quarter time	9-11	9-11	5-6	5-6
Half-time	6-8	6-8	4	4
Less than half-time	1-5	1-5	1-3	1-3

## Determination of financial need

Financial need is determined using the following formula:

$$\text{Cost of Attendance less Expected Family Contribution (EFC) = Financial Need}$$

The cost of attendance is determined by Oakland University utilizing federal guidelines. It is an estimate of the cost of education during a time period of attending school. The expected family contribution (EFC) is the result of the FAFSA application. The information you provide on the FAFSA is processed through a formula mandated by the United States Congress which calculates the EFC. The EFC is the amount that the federal government has determined that you and your family can contribute toward your education. The difference between the cost of attendance and the EFC is the financial need. Financial aid requiring a demonstrated financial need utilizes this formula to determine eligibility for need based financial aid. (Non-need based financial aid can be awarded to you up to your estimated cost of attendance.)

## Packaging of financial aid

Financial aid is offered in the form of scholarships, grants, loans and/or student employment. Awards are divided between fall and winter semesters. Awards are subject to your estimated cost of attendance, limits on individual awards, housing options, enrollment status, grade level, residency, financial need, etc. Initial financial aid awards are based on the expected enrollment reported on the FAFSA. If the enrollment status is blank or a FAFSA has not been completed, the expected enrollment status is full time. After the enrollment period has begun, financial aid packages will be adjusted to exhibit the correct enrollment status. Changes in expected enrollment status can be made prior to the start of the enrollment period by completing an Award Revision Form available on the financial aid website. Oakland University, within the constraints of limited resources, attempts to meet the financial need of students. Financial aid awards are based on enrollment at Oakland University. You cannot receive federal and state financial aid at two schools during the same enrollment period. Financial aid awarded for a specific term can only be disbursed during that same term.

## Private scholarships checks and resources

Students are encouraged to seek scholarships from private sources. When you become aware that you will receive a private scholarship from a private organization, notify the Financial Aid Office in writing. When the organization provides you with the check, it needs to be sent to the Financial Aid Office. The check should include your name and student number. If the check is co-payable to you and Oakland University, endorse the check and forward it to the Financial Aid Office.

Although federal regulations and University policies require private scholarship checks as forms of assistance be counted as financial aid resources when determining eligibility for need-based financial aid and count toward meeting the cost of attendance, they will improve your overall financial aid package.

## Calculating what you will be expected to pay to Oakland University

Oakland University sends tuition and fee bills and housing bills to students before the beginning of each semester and on a monthly basis thereafter. Any finalized financial aid will appear on your billing notice and be deducted from your charges. To estimate your bill from Oakland University, it is recommended you do the following:

1. Add up your charges for tuition and fees and room and board (if applicable).
2. Add up the amount of money (excluding work study) you will receive for the semester as shown on your award letter (see Note below). Subtract this from the total you calculated in #1 above.
3. If your financial aid is greater than your charges, you will receive a refund. If your charges are greater than your financial aid, you are responsible for paying the difference by the appropriate due date.

EXAMPLE:	Tuition & fees	\$2,400
	Room & board	+2,700
	Total charges	\$5,100
	Total financial aid	\$4,000
		\$1,100 Balance due university

Note: If you are a financial aid recipient, all your financial aid requirements must be met before your financial aid will apply to your University account. If your financial is not finalized prior to the billing due date, you are responsible for your charges.

## Financial aid disbursement policy

Financial aid funds are paid each semester by crediting the student account (excluding non-disbursable financial aid such as work study) up to 10 days before the first date of the semester provided all financial aid requirements are met. Financial aid may be based on the number of registered credits and/or on campus housing status at the time of the disbursement. You can view your financial aid disbursement on SAIL.

Financial aid requirements must be met to receive a disbursement. Requirements include:

1. Respond to all requests for additional information.
2. Enrollment in the appropriate number of credits to receive awards (usually full-time) on the disbursement date.
3. Satisfy financial aid requirements and fulfill on campus housing status requirements (if applicable).
4. Complete/sign all applicable promissory notes.

If financial aid requirements are met after the date financial aid is scheduled to pay, financial aid will disburse within 2 weeks after satisfying requirements.

If you receive a financial aid disbursement and a refund and drop or withdraw from classes or drop below your eligibility for financial aid before the first date of the semester, your financial aid will be canceled and you will be required to return any funds refunded to you.

Financial aid is finalized based on your number of registered credits on the last date to drop a class with a 100% refund. Credits added after the date to drop a class with a 100% refund are not considered for financial aid. If you received a financial aid disbursement and drop a class between the disbursement date and the last date to drop a class with a 100% refund, your financial aid might be reduced. Loans disburse based on your number of registered credits at the time of the disbursement.

Federal Direct Stafford Loans are disbursed in two payments of 50% of the loan amount in each payment. A two-semester loan disburses 50% of the loan up to 10 days before the first date of the first semester and the other 50% is disbursed up to 10 days before the first date of the second semester. A one-semester loan disburses 50% of the loan up to 10 days before the first date of the semester and the other 50% disburses after completion of half the semester. The very first disbursement to a first-time, freshman borrower loan occurs 30 days after the first date of the semester.

If financial aid exceeds allowable charges which are tuition, fees, and on-campus housing, you (or your parent, if you have a PLUS loan) will receive a refund to pay your other education related expenses. Refunds are sent within 14 days after the date financial aid was disbursed to your student account. If a refund is issued to you while you have unpaid charges on your account, a hold will be placed on your account that will prevent registration, transcripts, diplomas, or other statements of records. If any charges are incurred on your account after financial aid has been refunded, it is your responsibility to pay the additional charges. You (or your parent if you have a PLUS loan) can voluntarily elect to use excess financial aid funds to pay for educational related activity charges on your student account such as Graham Health Center charges, orientation fee, etc. by completing a Financial Aid Disbursement and Payment Authorization (available on the web at <http://www3.oakland.edu/oakland/financialaid/forms.htm>) prior to the disbursement of your financial aid funds. Your authorization can be rescinded at any time.

Grants, scholarships and loans are reflected on the bill and deducted from any university allowable charges provided all financial aid requirements are met. If you receive a bill with an amount due, it is important for you to pay your bill by the due date on your billing notification. If you have any amount due and you are expecting to acquire financial aid to pay your bill and your financial aid is not reflected on your bill, you must pay your bill by the due date. Common reasons why financial aid is not on the billing notification are: did not yet apply for financial aid, recently applied for financial aid, did not complete financial aid requirements, recently submitted requested documentation, financial aid did not fully cover the bill. A 1.5% monthly late fee is assessed on any unpaid balance.

## Terms and conditions of financial aid

1. You must not be in default on any federal educational loans or owe any refunds on federal grants received at post-secondary institutions.
2. You may use funds listed on your award notification for educationally related expenses incurred at Oakland University.
3. Some financial aid apply only to tuition
4. Financial aid may be adjusted based on changes in your enrollment status. Adjustments may require you to repay all or part of financial aid you received. If you are considering dropping a class, you are encouraged to discuss your circumstances with a financial aid administrator.
5. If you withdraw from all your classes beginning with the first day of classes for the semester, your financial aid may be adjusted.

6. You must meet the standards for satisfactory academic progress for financial aid to remain eligible for financial aid.
7. All financial aid awards are contingent upon federal, state and institutional appropriations and/or funding.
8. If you or a parent (if applicable) provide false or misleading information, your financial aid will be cancelled.
9. Any error made by the university in determining eligibility for aid or in the amount of aid disbursed, will be corrected. If an error should result in an overpayment, you will be billed for the excess amount you received.
10. To receive financial aid funds, you must be admitted and enrolled at Oakland University in a degree seeking or eligible certificate program. Endorsement programs, second majors, professional development and self-enrichment programs do not qualify for financial aid.
11. The Family Educational Rights and Privacy Act (FERPA) gives students access to their educational records and limits the release of this information without their written consent with the exception of Oakland University's directory information. The Financial Aid Office will release information from a student's file only to members of the University community or its agents or public agencies who request pertinent financial aid records to conduct required University business. The Financial Aid Office reserves the right to request identification before releasing any student financial aid information or records.

### **Return of Title IV financial aid funds**

When an eligible federal Title IV financial aid student withdraws (officially or unofficially) from all classes before 60% of the semester is complete during an enrollment period in which attendance has begun, federal regulations require Oakland University to determine the amount of financial aid earned. A student is only eligible to retain the percent of Title IV aid earned that is equal to the percentage of the enrollment period that was completed by the student. The unearned Title IV aid must then be returned to the appropriate federal aid program(s) which may result in the student owing financial aid funds to the University, the federal government, or both. If more than 60% of the enrollment period has been completed by the student, none of the Title IV aid needs to be returned.

Federal Title IV financial aid funds include: Federal SEOG, Federal Pell Grant, Federal Perkins Loan, and Federal Direct Subsidized, Direct Unsubsidized and Direct PLUS (Parent) Loans.

The following steps determine the amount of federal Title IV financial aid a student has earned up to the time of withdrawal and the amount that is unearned and needs to be returned:

1. Calculate the percent of the enrollment period completed by the student. Divide the number of calendar days the student attended\* by the number of calendar days in the enrollment period (less any scheduled breaks of 5 days or more). If the calculated percent exceeds 60%, the student has earned all Title IV aid for the enrollment period.
2. Calculate the amount of earned Title IV aid. Multiply the percent of the enrollment period completed by the total Title IV aid disbursed or could have disbursed according to late disbursement rules.
3. Calculate the amount of unearned Title IV aid. Subtract the amount of earned Title IV aid from the total amount of federal aid disbursed. The difference must be returned to the appropriate Title IV program by the University or by the student.

\*If a student who began attendance and has not officially withdrawn fails to earn a passing grade in at least one course during the enrollment period, grade reports from the class professor will verify the last date of attendance. If a professor does not have a record of class attendance, the midpoint of the semester will be used to calculate the percent of the enrollment period.

Oakland University notifies students with details of their earned and unearned federal Title IV financial aid. Students are provided with instructions related to repaying the funds to the University or to the federal government. In some instances a late disbursement of earned Title IV aid can be made to the student.

Funds returned (by the University and/or the student or parent) must be allocated in the following order:

1. Federal Unsubsidized Direct Loan
2. Federal Subsidized Direct Loan
3. Federal Perkins Loan
4. Federal Direct PLUS (Parent) Loan
5. Federal Pell Grant
6. Federal Supplemental Educational Opportunity Grant (SEOG)

Unearned loan funds owed to the federal government are repaid according to the terms of the loan promissory note. Grant funds are owed directly to the federal government. The student is required to repay only 50% of the grant overpayment. If the student does not repay a federal grant, the student is not eligible for federal Title IV funds at any school until the overpayment is paid. The student may also owe funds to Oakland University.

Official withdrawal procedures are available on the Office of the Registrar web site at <http://www2.oakland.edu/registrar/adw.cfm>.

Withdrawing from classes may impact the receipt of future financial aid. Students should be familiar with the Financial Aid Satisfactory Academic Program Policy which is available on the Financial Aid website at <http://www3.oakland.edu/oakland/financialaid/policies.htm>.

## **Standards of satisfactory academic progress for financial aid**

Oakland University is committed to providing fair and equal access to resources to meet educational costs for students. To receive federal, state and institutional financial aid at Oakland University, students must meet the standards of satisfactory academic progress (SAP).

Federal regulations require the Financial Aid Office to monitor the academic progress of students at least once a year. The complete Oakland University academic record including transfer credits is considered regardless of whether or not financial aid was received. Students who fail to achieve the minimum standards may lose financial aid eligibility.

The SAP standards for financial aid are applicable to but not limited to the following programs: Federal College Work Study, Federal Direct Loans, Federal Pell Grants, Federal Perkins Loans, Federal PLUS (Parent) Loans, Michigan Adult Part-Time Grants, Michigan Competitive Scholarships, Michigan Educational Opportunity Grants, Michigan Work-Study, all Oakland University Institutional Scholarships and Oakland University Grants.

Some scholarships have standards stricter than the financial aid satisfactory academic progress standards. The standards vary for each scholarship and are provided in the scholarship descriptions.

## **Standards of financial aid satisfactory academic progress**

Three criteria must be met to satisfy the standards of satisfactory academic progress:

### **1. Grade Point Average**

Students must maintain a cumulative Oakland University grade point average (GPA) of 2.00 at the end of each winter semester. Students who fail to meet this requirement are placed on financial aid probation and must meet the GPA requirement by the end of the next enrolled semester at OU. Students can receive financial aid while on probation. However, students who fail to achieve a 2.00 GPA while on probation become ineligible for financial aid the following semester at OU. The minimum GPA requirement for graduate and doctoral students is established by the academic unit.

### **2. Credit Hours**

Students must complete a minimum of 67% of cumulative credit hours attempted including transfer credits by the end of each winter semester. (Second Undergraduate and Teacher Certification students are considered to have attempted 92 credits even though fewer credits apply to the program of study. Post Baccalaureate eligibility is for one continuous calendar year after receiving a degree.) Students who fail to meet this requirement are placed on financial aid probation and must meet the credit hour requirement by the end of the next enrolled semester at OU. Students can receive financial aid while on probation. However, students who fail to complete at least 67% of attempted credit hours while on probation become ineligible for financial aid the following semester at OU.

### **3. Maximum Credit Hours**

Students must complete their academic program by the end of the semester in which 150% of attempted credits including transfer credits is reached. Second Undergraduate and Teacher Certification are considered to have attempted 92 credits even though the number of transfer credit hours is less.

## **Withdrawal from class, repeating courses and incomplete grades**

Students withdrawing from one or more classes during a semester must meet the credit hour requirement.

Students repeating courses are eligible for financial aid. However, students can receive credit for a class only once. When a class is repeated, it does not increase the total number of credits completed unless the course was failed in the previous attempt.

Incomplete classes with an "I" or "P" grade do not count in the GPA or credit hour requirements. When the class is completed, the credits and GPA are considered. Financial aid cannot be received retroactively due to completion of incomplete classes.

## **Regaining Eligibility**

Students may automatically regain financial aid eligibility by achieving a 2.00 minimum Oakland University GPA and/or successfully completing a minimum of 67% of attempted credit hours including transfer credits at their own expense. Financial aid may be received in the next semester of enrollment when the requirements are satisfied. Financial aid cannot be received retroactively for any semester in which satisfactory academic progress was re-established.

## Appeal Process

Students may appeal the loss of financial aid eligibility due to a deficient GPA or credit hours if special circumstances exist such as the death of a close relative of the student or an injury or illness of the student. Appeals must be submitted to the Financial Aid Office. The deadline to appeal is the last published day to drop a class with a 100% refund for the semester in which it applies. Approved appeals are not retroactive to prior semesters.

A Financial Aid Appeals Committee reviews satisfactory academic progress appeals. The committee includes staff from Financial Aid, Academic Advising and the Dean of Students' Office. Decisions of the committee are final. Students are responsible for providing adequate information for the committee to consider. Decisions will be made based on the information provided without any subsequent meeting on the part of the committee.

## Student Employment

Student employment provides on-campus jobs for undergraduate and graduate students enrolled at OU at least half-time; a few off-campus jobs are also available. Three types of student employment are available at OU: Federal Work Study, Michigan Work Study and Regular Student Employment. Students are paid every two weeks and are responsible for using the earnings to help pay their educational expenses.

### Federal College Work Study

Provides jobs for students who demonstrate financial need. The FAFSA is required.

### Michigan Work Study

Provides jobs for students who demonstrate financial need and are Michigan residents. The FAFSA is required.

### Regular Student Employment

Allows on-campus employment for students who do not qualify for Federal Work Study or Michigan Work Study. The FAFSA is not required.

### Registering for Student Employment

If you are interested in student employment, register with the Financial Aid Office by completing the following applicable forms (forms are available on the Oakland University web site at [www3.oakland.edu/oakland/financialaid/forms.htm](http://www3.oakland.edu/oakland/financialaid/forms.htm))

- If you never worked on campus, complete an Employment Registration Form, Employment Eligibility Verification (I-9), Form W4 Employee's Federal Withholding Allowance Certificate and a MI-W4 Employee's Michigan Withholding Exemption Certificate.
- If you worked on campus and wish to be referred to an on-campus job, only complete an Employment Registration Form.
- If you worked on campus and have secured an on-campus job, you do not need to complete an Employment Registration Form; however, your employer will need to submit notification of their intent to employ you.

### Student Employment Placement

Students are placed into on-campus jobs that are posted by university departments. Priority is given to Federal Work Study and Michigan Work Study students. In arranging a job and determining how many hours per week a student may work, the following factors will be taken into account: (1) the amount of a student's financial need; (2) the student's

class schedule; and (3) the student's education program or vocational goals. The rate of pay is at least equal to the Federal minimum wage.

### **Financial aid appeal procedure**

Appeals are accepted based on a grievance of a institutional policy, procedure or administration. Appeals or grievances of federal or state regulations or guidelines are not eligible for an appeal; however, inquiries will be provided with federal and state information.

The procedures for appealing institutional financial aid policies, procedures and administration are as follows:

1. The student provides a written appeal or grievance to the Financial Aid appeals committee.
2. The Financial Aid appeals committee reviews the appeal or grievance and researches and investigates the issue within 14 days.
3. If appropriate policies, procedures and administration have been applied, the Financial Aid administrative staff provides a response to the student in writing (or email) providing the student with information, details and rationale of the explanation.
4. If the Financial Aid administrative staff needs additional information, the student will receive a request in writing (or email). The deadline date to respond will be provided to the student. If additional information determines a change in a previous decision, adjustments will be made and the student will be notified in writing (or email). If the student does not respond to a request for additional information by the deadline, the appeal or grievance will be cancelled.
5. If the appeal or grievance concerns a policy, procedure or administration of another department, the Financial Aid appeals committee will confer with that department on the student's behalf or the student will be referred directly to the department.
6. If an error is made by the Financial Aid Office, the error will be corrected and the student will receive a written (or e-mail) response.

### **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 144 Oakland Center (248-370-4200). Brief descriptions of services for students follow.

#### **Academic Skills Center**

The Academic Skills Center, 103 North Foundation Hall, (248) 370-4215, offers free peer tutoring. Tutoring is available by appointment, and walk-in tutoring is available for some mathematics and science 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 faculty requests for study skills/test-taking presentations to classes. Study skills handouts are also available. Videotapes and audiotapes further support development of effective study strategies. Computer-aided instructional materials in academic disciplines are also available in the center.

Juniors and seniors interested in applying for Fullbright, Rhodes, Marshall, Truman, Goldwater, Madison and Soros scholarships and grants are supported in their efforts by the assistant director of the center, who provides information on all of these graduate



opportunities throughout the year and, in collaboration with a faculty committee, guides students through the application process, the campus interview process, and individual scholarship selection process.

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 academic support and advising referrals for students.

The Academic Skills Center is open from 8 a.m. to 7 p.m. Monday through Thursday and from 8 a.m. to 5 p.m. on Friday. Additional tutoring is available in 121 Vandenberg Hall Sunday through Wednesday from 7 p.m. to 10 p.m. Other times are available by appointment.

## Advising Resource Center

The Advising Resource Center, located in 121 North Foundation Hall (248-370-3227), provides academic information and assistance to freshmen and sophomore students and 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 as it relates to majors at the university. For freshmen students who declare an “undecided” major, advising from the Advising Resource Center involves a minimum of two appointments during the student’s first year during which career assessments are administered and interpreted. All undergraduates, regardless of academic major, may utilize the career exploration services of the Advising Resource Center.

## Campus Recreation

The Department of Campus Recreation provides facilities, programs and services to meet the recreational, fitness, wellness and personal development needs of the Oakland University community. The goal of campus recreation programs is to enhance the quality of student and campus life through knowledge, opportunities, interests and behaviors that promote healthy lifestyles and to encourage making a regular recreational activity an element of daily life.

Campus Recreation programs include intramural sports, club sports, fitness assessment and programs in group fitness sessions and clinics, wellness programs, aquatic and learn-to-swim programs, and informal sports that are self-directed and self-paced. Recreation Center facilities include the recreation gym with three basketball/volleyball courts, a one-tenth mile four-lane running track, three racquetball/walleyball courts, four multi-purpose rooms, a 7,500 square foot fitness center with over 70 pieces of cardio-vascular and strength equipment, wellness center, 50 meter pool, spa and bubble pool in the aquatic center, two class/meeting rooms, locker rooms and snack bar. Campus Recreation also oversees the Upper Pioneer Fields.

Students enrolled in classes that meet on the main campus are assessed an activity fee that permits entry to the center. Further information about eligibility for family members, facility hours or program offerings may be obtained at the facility’s Welcome Center or by telephone (248-370-4732).

## Career Services

The Career Services Department (275 West Vandenberg Hall, 248-370-3250) assists in identifying professional and career-related full-time, part-time and seasonal employment opportunities for both students and alumni. Its Professional Employment unit provides assistance to graduating students and alumni in locating career positions. Its Career Experience unit helps students in arranging internships, cooperative education work experiences, and part-time or full-time seasonal employment in positions that complement their classroom work. Paid, part-time opportunities are offered in the following programs: Career-related Jobs, Internships (corporate and grant-funded), and Cooperative Education. All students are encouraged to explore these programs.

Career Services provides direct access to job opportunities through on-campus interviews, job referral activities, and job vacancy postings. A computerized system, eRecruiting@OU, is used to register students and alumni for referrals and access to job postings and on-campus recruiting opportunities. Individual job search advising and career information are available to both students and alumni, including open advising during designated hours.

The department offers a variety of job fairs and career information/networking programs throughout the year. Special seminars assist students in developing job search skills. The department also maintains a website that contains career resources and links to other job/career information. The Web address for Career Services is <http://www.oakland.edu/careerservices>.

The department library contains both printed and videotaped employer information, job search information, and career publications and periodicals. It also includes the application materials for Graduate Record Examinations (GRE), Law School Admission Test (LSAT), Medical College Admission Test (MCAT), and Graduate Management Admission Test (GMAT), among others.

## Center for Multicultural Initiatives

Center for Multicultural Initiatives (CMI) develops and implements strategies and programs in an effort to increase the recruitment, retention and graduation of underrepresented racial and ethnic groups and to enhance their academic and social success. The CMI assists individual students and organizations in solving university related problems. It administers the Oakland University Trustees Academic Success Fund and oversees several scholarship, loan and peer mentor programs. It works to develop a campus climate that is sensitive and responsive to the issues of racial and ethnic diversity at Oakland University. The CMI is located in 121 North Foundation Hall (248-370-4404).

## Counseling Center

The Counseling Center located in the Graham Health Center provides counseling, testing and consultations to university students.

The personal counseling 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 experiencing 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.

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

The first six counseling sessions for students are free. After that, services are available at a nominal cost. Students may contact the center directly at 248-370-3465.

## 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 Dean of Students office is located in the Student Affairs Office at 144 Oakland Center (248-370-3352).

## Disability Support Services

Advocacy and support services are provided through the Office of Disability Support Services located in 106 North Foundation Hall. Services include, but are not limited to, priority registration, alternative testing arrangements, assistive technology, alternative media formats, assistance in identifying volunteer notetakers and readers, electronic door-openers and sign-language interpreting services. Students are encouraged to schedule an appointment 6 weeks prior to the semester and bring documentation of their disability. To register or for information, contact the DSS Office at 248-370-3266 (voice) or 248-370-3268 (TDD). In cases involving alleged illegal discrimination or harassment, the student should contact University Diversity & Compliance, 203 Wilson Hall, 248-370-3496.

## Health Services

Oakland University students, faculty and staff may receive nurse practitioner medical services at the Graham Health Center (248-370-2341). Services include management of most acute and chronic medical problems, laboratory and pharmaceutical services, and ability to handle minor trauma and to give initial treatment to more serious emergencies. Men's and women's health, including gynecological examination is available as well as a variety of low cost contraception. Allergy injections are given while a 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. The center will bill some insurance companies including Maksin Student Insurance and PPO. Student health insurance is available at reasonable rates. For additional information, please visit our website at [www2.oakland.edu/ghc](http://www2.oakland.edu/ghc).

## ID Card Office

The SpiritCard, Oakland's official university identification card, is available to all students. ID cards are required to access residence hall meal plans, the Recreation Center and to check out library materials. There is no charge for the first card, but replacement cards are \$10. ID cards may be obtained at the ID Card Office, 112 Oakland Center (248-370-2291), during regular business hours. The office is open Monday through Friday 8 a.m. to 5 p.m. and Wednesday evening until 7 p.m. Students must have a valid photo ID (driver's license or passport) and be registered to obtain an OU ID.

## International Students and Scholars

Services are provided by the Office of International Students and Scholars located in 157 North Foundation Hall. Orientation, advising, assistance with preparing documents for the U.S. Immigration and Naturalization Service, sponsoring agencies and home country governments are among the available services. International students are required to meet with a staff member prior to registration. Any international student or exchange visitor requiring assistance may contact the office at 248-370-3358.

## Lowry Center for Early Childhood Education

The School of Education and Human Services operates the Matthew Lowry Center for Early Childhood Education for young children of students, faculty, staff and the community. The center houses three programs (PreKindergarten, preschool and toddler) and is located in the new SEHS building on the first floor. All programs are accredited by the National Association for the Education of Young Children and are licensed by the Michigan Department of Social Services.

The PreKindergarten program is an early childhood program that offers full (9-4) and half day (9-12 or 1-4) programs for children who are 4 years old by December 1 through 5 years.

The Preschool program is an early childhood program that offers full (9-4) and half day (9-12 or 1-4) programs for children who are 3 and 4 years old.

The toddler program is for children 18 months to 3 years old and offers full (9-4) and half day programs (9-12 or 1-4). The curriculum is designed to stimulate and support the developmental growth of young children.

Aside from regular program hours, extended hours are available from 7:30-9 and 4 -5:30 at an additional cost.

The Center operates weekdays from 7:30 a.m. to 5:30 p.m. Space in all programs is limited, but registration is on-going throughout the year based on availability. The center offers grants to assist low-income students with their child's tuition costs at Lowry. Lowry also offers ENVIRO-EXPLORERS, a summer day camp program for children 18 months to 6 years old, focusing on natural explorations of the indoor and outdoor environments. Please call the reception desk for more detailed information (248-370-4100).

## Oakland Center

The newly expanded Oakland Center serves students, faculty, staff, alumni and guests of Oakland University by offering a wide variety of social, recreational, cultural and entertainment programs. Open seven days a week and located in the heart of the campus, the Oakland Center features a food court including brand name eating establishments, such as Chick-Fil-A and Subway. The University Bookstore is housed in the Oakland Center, as well as vending machines, a campus welcome center, a games room, Copy Stop Etc., public telephones, newspaper machines, computer labs, e-mail kiosks, wireless Internet systems, Cafe' O'Bear's coffee shop/cyber cafe, a TV lounge and meeting/multipurpose rooms. Also located in the Oakland Center are the offices of Student Activities and Leadership Development, Student Affairs, Dean of Students, Chartwell's food service, the ID Card Office, student organizations, University Congress, Student Program Board, *The Oakland Post* student newspaper and WXOU-FM, the student-operated radio station.

## Orientation

All students new to Oakland University are required 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 first-year 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 New Student Programs, 134 North Foundation Hall (248-370-3260).

## Placement Testing

The Office of New Student Programs coordinates placement testing for new students. Placement testing assists new students in selecting the appropriate courses and is required for enrollment in some courses. The Office of New Student Programs administers General Math and Calculus Readiness exams during the summer orientation programs. During the academic year, the Department of Mathematics and Statistics, 368 Science & Engineering Building (248-370-3430), offers testing on an individual basis, usually by appointment. The Department of Modern Languages and Literatures, 418 Wilson Hall (248-370-2060) offers language testing in French, German, and Spanish year round. The tests can be taken on a personal computer or at computer labs at Kresge Library, in the Oakland Center, or the language lab in Wilson Hall. The test can be accessed at [www2.Oakland.edu/dml/exam.cfm](http://www2.Oakland.edu/dml/exam.cfm). For more information about placement testing, contact the Office of New Student Programs, 134 North Foundation Hall (248-370-3260).

## New Student Programs

The Office of New Student Programs offers many programs to assist new students in making a smooth transition to Oakland University. Services include New Student Orientation, Transfer and Non-Traditional Student Express Orientation, Parent Orientation, Welcome Week, New Student Convocation, Collegiate Communication 101 and Connections.

All new students are expected to attend an orientation session before their first registration. During orientation, students are informed about important university policies and procedures, given information on student services and activities, and introduced to the academic environment. At the conclusion of orientation, students meet with academic advisers for assistance with course selection and registration.

A non-refundable fee is charged to all new students, whether or not they attend orientation. This fee covers orientation, placement testing, academic advising, counseling and other services available to Oakland students. For further information, contact the Office of New Student Programs, 134 North Foundation Hall, at 248-370-3260 or email [NSP@oakland.edu](mailto:NSP@oakland.edu).

## Residence Halls and University Housing

Oakland University's residence halls and apartments offer a special way of life for approximately 1,900 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 housing community has a distinct character and is situated only a five-minute walk from classrooms, the library and recreational facilities.

There are many features, some of which are: staff who work and live in each hall, complete laundry facilities, reception desk and mail service, cable television, internet service, meal plans to fit student lifestyles, mathematics and science tutoring, computer labs, programs and workshops. University housing offers a variety of living options including living-learning communities, single student apartments, and family housing.

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, CD/tape players and computers are allowed subject to safety regulations, limitations of space and consideration of others. Telephones are provided in each suite or room, and 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 provided by a professional food service company. Residents have the opportunity to select from a variety of meal plans, which are set in accordance with student needs and interests.

To be eligible for university housing, students must be registered for the semester. All unmarried students are required to live in a residence hall unless they have earned 56 credit hours or can document that they live with a parent or legal guardian. Requests for exceptions to this policy will be considered.

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 Housing 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 Housing Office. Room and board is not provided between semesters or during official recesses listed in the university calendar for students living in the residence halls. Students living in University Student Apartments are permitted to stay in their apartment between semesters and during official university recesses.

For more information, please contact the Department of University Housing, 448 Hamlin Hall, Oakland University, Rochester, MI 48309-4401, or call 370-3570 or fax to 370-3340 or visit our Web site at [www.oakland.edu](http://www.oakland.edu) and select "Future Students: All About OU".

## Student Activities and Leadership Development

The Center for Student Activities and Leadership Development (49 Oakland Center, 248-370-2400) plans and coordinates a wide variety of out-of-classroom activities including major campus-wide events, lectures, leadership and diversity programs and retreats, community service opportunities, off-campus trips, student and Greek organizations training workshops. Oakland University has over 100 registered student organizations, which represent a broad range of interests including academic, community service, engineering, honor societies, multicultural, political, religious, social, club sports, and Greek fraternities and sororities. Students unable to locate an organization serving their particular interest are encouraged to form new groups.

Many student services are provided through the Center for Student Activities (CSA) Office including use of computers, locker rentals, ticket sales and sign-ups to campus activities, discounted tickets to Detroit area theaters, student organization registration information, notary public, banners, and approval for posting printed materials around campus. Consultation and resources are available to students planning social, educational and cultural activities. The Office coordinates Week of Champions at Oakland University (WOCOU), blood drives, the Patio Concert Series, College Bowl, evening and weekend activities, leadership, diversity and community service programs. Additionally, the CSA Office assists in planning Hispanic Celebration, African-American Celebration, OU Alcohol Awareness Week, Cultural Awareness Week, and Women's History Month.

University Student Congress (OUSC) is an elected, campus-wide governmental body that addresses student issues and concerns. In addition to its administrative duties, University Student Congress oversees the Student Activities Funding Board (SAFB), which allocates operating funds to recognized student organizations, and the Student Program Board (SPB), which is responsible for films, lectures, concerts and other social activities.

The Oakland Post is the student campus newspaper, published weekly. WXOU 88.3 FM is the student radio station, operating every day of the week.

Students are highly encouraged to get involved in out-of-classroom activities. The Center for Student Activities Office is available to provide students with educational, social, leadership, diversity and community outreach opportunities to compliment their academic experience while attending Oakland University.

For more information about becoming involved, contact the CSA Office, 49 Oakland Center, call 248-370-2400, fax 248-370-4337, email [csa@oakland.edu](mailto:csa@oakland.edu), or access the CSA Web site at: [www.oakland.edu/currentstudents/csa](http://www.oakland.edu/currentstudents/csa).

## Testing Services

The Bachelor of General Studies office (520 O'Dowd, 370-3229) administers the ACT, LSAT, MCAT, NCE and Miller Analogies Test. Information and materials on these tests are available from the department office.

## Precollege Programs

The Department of Learning Resources (103A North Foundation Hall, 248-370-4455) provides four programs to middle school and high school students in the metropolitan area.

Project Upward Bound (261 South Foundation Hall, 248-370-3218), a federally funded college preparatory program, offers academic, social, career and cultural enrichment to 110 students annually who attend Oak Park and Pontiac public high schools and meet federal

eligibility criteria. This university community outreach activity includes a six-week residential Summer Academy and an eight-month Academic Year Program. The Project employs 25-30 university students annually as tutors, peer mentors, and office assistants and provides both wages and room and board in the summer.

The GEAR UP Project (121 Vandenberg Hall, 248-370-4942) is a partnership between the department of Learning Resources and the School of Education & Human Services, the School District of the City of Pontiac, Oakland Community College, the State of Michigan, and the Pontiac Collaborative. Sponsored by the U.S. Department of Education with matching funds from the university, the State of Michigan, and the Pontiac School District, its purpose is to give students at Jefferson/Whittier Middle School in Pontiac, Michigan, the skills, encouragement, and preparation necessary to pursue postsecondary education. GEAR UP support services follow these students when they enter Pontiac Central and Pontiac Northern High Schools.

The Wade McCree Scholarship Program (103A North Foundation Hall, 248-370-4455) provides academic support to public school students in Detroit, Pontiac and Oak Park who are selected by their school districts. McCree students are eligible for full tuition scholarships to Oakland University if they meet the selection criteria.

In order to reinforce the importance of adequate preparation for higher education, the King/Chavez/Parks College Day Program (103A North Foundation Hall, 248-370-4455) offers one-day and overnight visits to campus and summer residential programs for middle and high school students from the metropolitan area.

## Office of Undergraduate Education

**Vice Provost for Undergraduate Education:** *Susan Aubrey, Ph.D.*

The Office of Undergraduate Education (UGE) provides a single point of focus within the administration for undergraduate education at Oakland University. Its university-wide mission spans undergraduate academic experience. The Office is designed to: promote quality and excellence in teaching and learning, encourage innovative ideas and enrichment of the undergraduate curriculum, enhance support services, promote diversity in the curriculum, establish and interpret policy, and provide oversight for campus-wide programs. One of the major missions of the office is ensuring the quality of undergraduate programs in collaboration with Oakland's College of Arts and Sciences and professional schools.

## Quality through accreditation

Undergraduate Education has oversight of the university's accreditation through the North Central Association of Colleges and Schools Commission on Institutions of Higher Education (NCA). Higher Learning Commission, North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602.

## Quality through collaborative governance

Undergraduate Education works closely with standing committees of the University Senate to implement and recognize academic quality. This includes the General Education Committee. UGE supports implementation of the revised general education program to enhance the core experience for Oakland University's undergraduate students. UGE works with the Teaching and Learning Committee to identify winners of the Teaching Excellence and Excellence in Teaching awards. These awards are given each year to outstanding full and part-time instructors. Students are encouraged to nominate faculty for these awards. The Vice Provost for Undergraduate Education chairs the University Committee on Undergraduate Instruction. This committee has oversight of university

requirements and university-wide curriculum issues. UGE is responsible for promoting diversity in the curriculum. UGE works in collaboration with the Assessment Committee which assesses the impact of academic programs on student learning.

UGE is also responsible for the decennial review of academic programs that is mandated by the University Senate. At least once every ten years an entire academic program comes under review with the goal of enhancing the program's effectiveness and maintaining a university environment of academic excellence.

## **Quality through special student programs and opportunities**

The Office of Undergraduate Programs seeks to increase opportunities for undergraduate students through special programs and opportunities including:

### **International Experience**

UGE oversees the Office of International Education. This new office is designed to expand opportunities for Oakland University students to study abroad. Dr. Margaret Pigott is the Director (248-370-4131).

### **Honors College and Research**

UGE oversees the Honors College (HC). The Honors College is designed to offer a challenging environment to outstanding undergraduate students. The Office of Undergraduate Education encourages faculty to engage undergraduate students in research projects and to mentor undergraduate scholarship. The HC maintains a list of faculty mentors willing to involve undergraduate students in research. Dr. Jude Nixon is the Director (248-370-4450).

### **Bachelor of General Studies**

The Bachelor of General Studies (BGS) reports to UGE. The BGS program allows students to create an academic program that meets their educational goals by combining elements from different majors offered by the University. The creation of a BGS plan provides students with the flexibility to meet their individual academic aspirations. Dr. Carole Crum is the Director (248-370-3229).

### **Quality through development**

The Office of Undergraduate Education conducts development opportunities for faculty including an annual orientation to acquaint new faculty with Oakland University and to help ensure a productive classroom experience. UGE also supports the activities of the Teaching and Learning Committee that are designed to increase awareness of effective teaching practices including the Teaching & Learning Newsletter.

### **Quality through accurate student information**

The Office of Undergraduate Education has responsibility for the production of the Undergraduate Catalog. The *Undergraduate Catalog* is the student's guide for navigating the educational requirements and opportunities at Oakland University. Understanding the information in the Catalog, in conjunction with regular visits to the student's academic adviser, can greatly improve a student's likelihood of success at OU.

The Office of Undergraduate Education is located in 520 O'Dowd Hall and can be reached at (248) 370-4955.



## Office of Graduate Study and Lifelong Learning

**Executive Director of Graduate Study:** *Claire Rammel, M.A.*

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 Office of Graduate Study and Lifelong Learning (520 O'Dowd Hall), the Office of Graduate Admissions and Student Services (160 North Foundation Hall), the University Bookcenter, or [www.oakland.edu/grad](http://www.oakland.edu/grad). Prospective students should also consult the school or department in which they wish to study.

### Graduate degree programs

**Doctor of Philosophy:** applied mathematical sciences, biomedical sciences (health and environmental chemistry, medical physics), education (counseling, early childhood education, educational leadership) reading education, systems engineering, mechanical engineering

**Doctor of Physical Therapy**

**Doctor of Science in Physical Therapy**

**Education Specialist:** school administration

**Master of Accounting**

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

**Master of Arts in Teaching:** reading and language arts, secondary education, elementary education

**Master of Business Administration**

**Master of Arts in Liberal Studies**

**Master of Education:** educational leadership, educational studies, early childhood education, special education

**Master of Music**

**Master of Public Administration**

**Master of Science:** applied statistics, biology, chemistry, computer science and engineering, electrical and computer engineering, embedded systems, engineering management, exercise science, industrial applied mathematics, information systems engineering, information technology management, mechanical engineering, physical therapy, physics, software engineering, systems engineering

**Master of Science in Nursing:** family nurse practitioner, nursing acute care, adult gerontological nurse practitioner, nurse anesthesia, nursing education, and RN to MSN tracks

**Master of Training and Development**

### **Graduate Certificate Programs**

Advanced Microcomputer Applications	Orthopedic Manual Physical Therapy
Clinical Exercise Science	Orthopedics
Complementary Medicine & Wellness	Pediatric Rehabilitation
Corporate and Worksite Wellness	Statistical Methods
Exercise Science	Teaching and Learning for Rehabilitation Professionals
Microcomputer Applications	Teaching English as a Second Language
Neurological Rehabilitation	
Nursing Education	

### **Post-Master's Graduate Certificate Programs**

Accounting	Human Resources Management
Adult Gerontological Nurse Practitioner	International Business
Advanced Reading, Language Arts and Literature	Local Government Management
Business Economics	Management Information Systems
Educational Administration	Marketing
Entrepreneurship	Nonprofit Organization and Management
Family Nurse Practitioner	Nurse Anesthesia
Finance	Nursing Education
General Management	Production/Operations Management
Higher Education	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

The role and mission of faculty and professional academic advisers at Oakland University is to advise and counsel students as they seek to develop academic, career and life goals. In a continuing process of discovery, clarification and evaluation, advisers assist students in discovering possibilities, identifying and assessing alternatives and weighing the consequences of decisions.

Full-time professional academic advisers are available to students in each of the schools, the College of Arts and Sciences, the Bachelor of General Studies office and the Advising Resource Center. Faculty advisers 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 this catalog and on the university's website.

## Assessment

Oakland University is committed to the continuous improvement of its programs and services through an on-going process of self-assessment linked to action steps for improvement. Examples of common assessment activities include surveys, pre- and post-tests, focus groups and interviews. Students can expect to participate in the assessment activities of various academic and student service units both as students and, later, as graduates of Oakland programs.

## Assessment of student learning outcomes

Oakland University is committed to improving the quality of all of its degree programs. One way in which this is accomplished is by ongoing assessment of student learning outcomes. All degree programs have a set of unique goals and learning objectives for what they want students to achieve in their major programs. How well students are achieving the goals of their degree program is measured through assessment activities conducted throughout the academic year.

The results of assessment activities are used for improving programs and making curricular changes to maximize student learning outcomes. Assessment results inform departments about how well their current curriculum (the courses, degree requirements, and other activities offered by the program) provides students with the tools they need to perform successfully within their major area. Assessment is also used to measure the ability of General Education courses and other experiences to provide a wide range of general knowledge and skills necessary for success in any career and throughout the lifetime. Ongoing assessment activities also allow programs to track and compare the quality of their programs from year-to-year and to measure the success of curricular changes designed to improve program quality. Assessment results are also used to identify program needs and to support requests for additional resources.

As a student, you can expect to participate in assessment activities from time to time as part of your degree program requirements. Some assessment activities might include: student surveys, examinations, evaluation of course papers and projects, entrance and exit interviews, and portfolios of students' work throughout their major program. The activities are different for every degree program (because each program has its own unique set of goals and learning objectives) and are designed to measure each program's learning objectives in the best possible way.

## 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, undergraduate 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.

The enrollment status of students is certified upon request by the Academic Records Office (102 O'Dowd Hall).

## 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.** Grades earned in these courses, however, 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 student's 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. A "W" grade denoting withdrawal is recorded for courses dropped after the second week in semesters and the first week in the spring and summer sessions. Dropped courses for which students wish to claim either fee cancellation or refund of fees must also be processed through the Registration Office during published refund periods (See also

*Refund of tuition and fees*). Failure to drop a course on or before the official withdrawal date may result in the recording of a 0.0 grade on a student's record. Withdrawal options are specified in each term's *Schedule of Classes*.

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 10th class day after the first day of classes (fifth class 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* and the Office of the Registrar website each term.

## Auditing courses

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

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 to improve the grade earned in a prior enrollment, but they must do so at Oakland University. The limit is three attempts at any individual course, excluding drops or withdrawals. The repeat course must be taken on the same grading basis (numeric or pass/fail) as first attempt. Because some programs have more stringent limits, students should consult an adviser before registering to repeat a course. **Students should be aware that the most recent grade will be the grade of record regardless of whether it is the highest grade earned.**

Students whose programs allow courses to be repeated at other institutions will not receive transfer credit if Oakland University credit has been earned, nor will they improve their Oakland grade point average. Students must consult an adviser in the major program before registering to repeat a course elsewhere.

Oakland University transcripts will reflect grades earned in all Oakland courses. For repeated courses, the attempts excluded from the grade point average will be marked with an "E" and the grade of record will be marked with an "I" designating inclusion in the grade point average. Transfer students who successfully repeat a course at Oakland for which transfer credit has been awarded will lose the transfer credit.

Credit is not given for more than one course covering specific content, which means that most courses can be taken only once. Certain courses, however, generally representing special topics or independent studies, are designed to vary from semester to semester. The Undergraduate Catalog states the applicable credit limit for such courses.

## 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 both 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:** All students must complete 40 credits of general education, including at least one course (three or more credits) from the list of approved courses offered in each of the following ten knowledge areas: writing, formal reasoning, arts, foreign language and culture, global perspective, literature, natural science and technology, social science, Western civilization, and knowledge applications. Additional general education requirements for diversity, writing intensive course in general education, writing intensive course in the major, and a capstone may be met by double counting approved general education courses and

approved courses in the major as indicated in the material that follows. Note that courses may not triple count in general education. (See course listings below.) Students transferring credit to the university should consult the *transfer student information* section.

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. Specific requirements:** Students must select a major or primary field of study and also for some programs, as described in relevant sections of this catalog, they must be admitted to the major by the academic unit offering the program. 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. Specializations are groups of related courses within certain major fields; they are options in some major programs; for some other programs, students must select a specialization as part of the major. Concentrations, which are groupings of interrelated courses with an interdisciplinary focus, and minors, secondary fields or subject areas of study, are optional, although some programs require written approval for minors and concentrations. Forms for planning and approval of a minor or concentration are available in the advising offices.
- 3. 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 or the Academic Records Office, 102 O'Dowd Hall, 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 (248-370-3452).
- 4. 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.
- 5. 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.
- 6. 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

### General education philosophy

The major goal of Oakland University's general education program is to introduce students to a broad base of knowledge as well as the analytical and evaluative tools needed to lead productive and fulfilling lives of leadership and service. A well-educated person is not a narrow specialist. The breadth of knowledge acquired through general education cannot be found in any single major. Therefore, the general education program is comprised of three parts:



foundations, explorations, and integration. Together they complement the major to increase the student's flexibility and options upon graduation. The Foundation Knowledge Areas that all students must master include Writing and Formal Reasoning. These courses develop skills and understanding that are invaluable for all of the student's subsequent education. In addition to fundamental abilities, a well-educated person should also have a critical appreciation of the ways in which we gain and apply knowledge and an understanding of the universe, of society, and of humankind. Oakland's general education program therefore includes seven Explorations Knowledge Areas: Arts, Foreign Language & Culture, Literature, Global Perspectives, Natural Science & Technology, Social Science and Western Civilization. A sound education also requires capacities that cut across the knowledge areas. At Oakland University the general education program is designed to enhance the abilities of Critical Thinking, Information Literacy, Effective Communication and Social Awareness. Finally, for the well-educated person, the knowledge and capacities of the various disciplines and majors do not exist in isolation but rather form an integrated whole. The Integration Knowledge Areas that include Knowledge Application and a Capstone, allow students to synthesize their knowledge, seeing the interconnections between the various disciplines and applying their knowledge to real world problems. This integrated knowledge forms the basis for students to continue to learn and grow throughout their lives and prepares them for productive lives of service and leadership.

## 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 ten knowledge areas. 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 area 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 2005-2006 catalog.

### Knowledge Foundations

#### 1. Writing

*The writing knowledge foundation area prepares students to demonstrate:*

- *knowledge of the elements, writing processes, and organizing strategies for creating analytical and expository prose*
- *effective rhetorical strategies appropriate to the topic, audience, context, and purpose*

#### Writing Foundations

*[For alternative ways of meeting this requirement, see the Writing Requirements section that follows the listing of general education area courses]. Students must earn at least a 2.0 in RHT 160 to meet the Writing Foundations requirement.*

RHT 160

Composition II

#### 2. Formal Reasoning

*The formal reasoning area prepares students to demonstrate:*

- *knowledge of one or more formal reasoning systems such as computer programming, mathematics, statistics, linguistics or logic*
- *application of formal reasoning to read, understand, model and solve problems across a variety of applications*

*[Note: Formal Reasoning course must be taken prior to student's junior standing]*

CSE 120

An Introduction to Computing and Programming Using Excel

CSE 130

Introduction to Computer Programming

CIT 120

An Introduction to Computing and Programming Using Excel

CIT 122	Computer Animation
CIT 130	Introduction to Computer Programming
LIN 180	Linguistic Analysis
LIN 183	Formal Rules of Sound Structure
LIN 184	Formal Rules of Phrase Structure
MTH 118	Mathematical Sciences in the Modern World
MTH 121	Linear Programming, Elementary Functions
MTH 122	Calculus for the Social Sciences
MTH 154	Calculus
PHL 102	Introduction to Logic
PHL 107	Introduction to Symbolic Logic
STA 225	Introduction to Statistical Concepts and Reasoning
STA 226	Applied Probability and Statistics

## Knowledge Explorations

### 3. Arts

*The Arts area prepares students to demonstrate:*

- *knowledge of cultural or historic artistic traditions in visual, auditory, movement, theatrical, or cinematic art*
- *knowledge of the role of art as critical commentary on society and as an aesthetic expression of experience*

AH 100	Introduction to Western Art I
AH 101	Introduction to Western Art II
AH 104	Introduction to Arts of Asia and the Islamic World
CIN 150	Introduction to Film
DAN 173	Dance History and Appreciation
DAN 175	Dance in American Culture
MUS 100	An Introduction to Music
MUS 200	Cultural Foundations and Historical Development of Rock Music
MUS 236	Music in African Culture
MUS 334	History of Film Music
MUS 336	Music of the Americas: African Origin
MUS 338	Jazz and Blues: American Music
THA 100	Introduction to Theatre
THA 301	Theatre History I
THA 302	Theatre History II

### 4. Foreign Language and Culture

*The Foreign Language and Culture area prepares students to demonstrate:*

- *knowledge of a foreign language and culture*
- *knowledge of linguistic and cultural diversity and the contributions of such diversity to the global society*

*[Note: Courses do not count for Global Perspective area]*

*Students may meet this requirement by completing any of the courses listed below or by passing a competency exam in another language for which no regular course sequence exists at OU (HIU 114P or ML 191P or ML 192 P) or by completing a 4-credit foreign language course numbered 115 or higher (or its equivalent).*

ALS 176	The Humanity of Language
ARB 114	Introduction to Arabic and Arabic Culture
CHE 114	Introduction to Chinese and Chinese Culture
FRH 114	Introduction to French and French Culture

GRM 114	Introduction to German and German Culture
IT 114	Introduction to Italian and Italian Culture
JPN 114	Introduction to Japanese and Japanese Culture
LIN 181	Introduction to the Development of the English Language
LIN 207	Meaning in Language
LTN 114	Introduction to Latin Language and Roman Culture
SPN 114	Introduction to Spanish and Hispanic Culture

## 5. Global Perspective

*The Global Perspective area prepares students to demonstrate:*

- *knowledge of the environments, political systems, economies, societies and religions of one or more regions outside the United States and awareness of the transnational flow of goods, peoples, ideas and values*
- *knowledge of the role that different cultural heritages, past and present, play in forming values in another part of the world, enabling the student to function within a more global context*

AN 102	Culture and Human Nature
AN 200	Global Human Systems
GEO 200	Global Human Systems
MUS 236	Music in African Culture
IS 200	Global Human Systems
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
PS 114	Issues in World Politics
MGT 110	Contemporary World Business

## 6. Literature

*The Literature area prepares students to demonstrate:*

- *knowledge of how literature is an expression of culture*
- *knowledge of literary form*

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	The Bible as Literature
ENG 306	Drama
ENG 312	Classical Mythology
LIT 100	Introduction to Asian Literature
LIT 181	European Literature I
LIT 182	European Literature II

## 7. Natural Science and Technology

*The Natural Science and Technology area prepares students to demonstrate:*

- *knowledge of major concepts from natural science or technology, including developing and testing of hypotheses; drawing conclusions; and reporting of findings and some laboratory experience or an effective substitute*
- *how to evaluate sources of information in science or technology*

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 157	General Chemistry I
CHM 167	Honors General Chemistry I
CHM 300	Chemistry and Society
ENV 308	Introduction to Environmental Studies
HS 201	Health in Personal and Occupational Environments
LIN 182	Language and the Brain
PHY 101	General Physics I
PHY 104	Astronomy: The Solar System
PHY 105	Astronomy: Stars and Galaxies
PHY 106	Earth Science/Physical Geography
PHY 120	The Physics of Everyday Life
PHY 151	Introductory Physics I
SCI 100	Physical Sciences in Life, the World and Beyond

## 8. Social Science

*The Social Science area prepares students to demonstrate:*

- *knowledge of concepts, methods and theories designed to enhance understanding of human behavior and/or societies*
- *application of concepts and theories to problems involving individuals, institutions, or nations*

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
AN 385	Historical Archaeology
COM 287	Media and Social Identity
ECN 150	Economics in Today's World
ECN 200	Principles of Macroeconomics
ECN 210	Principles of Economics
HS 202	Social, Cultural and Economic Perspectives in Health
PS 100	Introduction to American Politics
PS 114	Issues in World Politics
PS 131	Comparative Politics
PS 323	American People and Their Presidents
PSY 100	Foundations of Contemporary Psychology
SOC 100	Introduction to Sociology
SOC 206	Self and Society
WS 200	Introduction to Women's Studies

## 9. Western Civilization

*The Western Civilization area prepares students to demonstrate:*

- *knowledge of the historical events and/or philosophical ideas of European or American culture*
- *knowledge of how Western ideas or institutions have evolved over time*

AN 300	Culture, Society and Technology
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
PHL 101	Introduction to Philosophy
PHL 103	Introduction to Ethics
PHL 204	Ancient Greek Philosophy

PHL 205	Medieval Philosophy
PHL 206	Early Modern Philosophy
PS 377	Communism

## Knowledge Integration

### 10. Knowledge Applications

*The Knowledge Applications area prepares students to demonstrate:*

- *how knowledge in a field outside of the student's major can be evaluated and applied to solve problems across a range of applications*
  - *knowledge of the personal, professional, ethical, and societal implications of these applications*
- [Note: Course must be outside the rubric of the student's major]*

ENV 354	Global Environmental Governance
HRD 307	Presentation and Facilitation
HRD 351	Fundamentals of Human Interaction
ISE 150	Everyday Engineering
NRS 304	Human Sexuality
PS 354	Global Environmental Governance
RHT 320	Peer Tutoring in Composition
RHT 334	Writing about Culture: Ethnography
RHT 341	Rhetoric of Professional Discourse
RHT 342	Contemporary Rhetorical Studies
RHT 460	Writing Across the University: Language and Disciplinary Culture
RHT 491	Internship
WHP 310	Injury Prevention, Control, and Safety Promotion
WHP 315	Laughter as Therapeutic Modality
WS 300	Women in Transition

### Capstone

*The Capstone course prepares students to demonstrate:*

- *appropriate uses of a variety of methods of inquiry and a recognition of ethical considerations that arise*
- *the ability to integrate the knowledge learned in general education and its relevance to the student's life and career*

*[Note: Requirement may be met by an approved course in the major, an approved course outside of the major, or second approved knowledge applications course]*

Courses approved to meet this requirement will be announced. Please check with your adviser.

## Writing Intensive

### General Education Writing Intensive

*[Note: Requirement cannot be met with RHT 150 or 160. Course may double count with an approved general education course. Students must have earned a grade of 2.0 in the Writing Foundations course to enroll in a General Education Writing Intensive course]*

CHM 300	Chemistry and Society
COM 330	Digital Culture: Identity and Community
COM 385	Multicultural Communication
EED 420	Managing the Classroom Community for Diverse Learning
ENV 354	Global Environmental Governance
MGT 110	Contemporary World Business
PS 354	Global Environmental Governance
RHT 320	Peer Tutoring in Composition
RHT 330	Digital Culture: Identity and Community
RHT 334	Writing about Culture: Ethnography

RHT 341	Rhetoric of Professional Discourse
RHT 342	Contemporary Rhetorical Studies
RHT 460	Writing Across the University: Language and Disciplinary Culture
RHT 491	Internship
WHP 310	Injury Prevention, Control, and Safety Promotion
WHP 315	Laughter as Therapeutic Modality

### Writing Intensive in the Major

*[Note: Course may double count with an approved major course. Students must have earned a grade of 2.0 in the Writing Foundations course to enroll in a Writing Intensive in the Major course]*

AH 300	Critical Thinking and Writing in Art
BIO 405	Directed Readings in Biology
BIO 490	Independent Research
CHM 300	Chemistry and Society
COM 330	Digital Culture: Identity and Community
COM 385	Multicultural Communication
EED 420	Managing the Classroom Community for Diverse Learning
ENV 354	Global Environmental Governance
PS 354	Global Environmental Governance
PSY 311	Sensation and Perception
PSY 316	Cognitive Psychology
PSY 317	Sleep and Dreams
PSY 318	Physiological Psychology
PSY 319	Animal Behavior
PSY 321	Child Development
PSY 322	Adolescence and Youth
PSY 323	Adulthood and Aging
PSY 327	Socialization in the Family
PSY 330	Social Cognition
PSY 333	Motivation
PSY 337	Interpersonal Processes and Group Behavior
PSY 338	Health Psychology
PSY 339	Emotion
PSY 341	Abnormal Psychology
PSY 342	Coping Strategies in the Normal Personality
PSY 343	Psychopathology of Childhood
PSY 344	Behavior Analysis
PSY 358	History and Systems of Psychology
PSY 370	Psycholinguistics
PSY 381	Tests and Measurement
RHT 320	Peer Tutoring in Composition
RHT 330	Digital Culture: Identity and Community
RHT 334	Writing about Culture: Ethnography
RHT 341	Rhetoric of Professional Discourse
RHT 342	Contemporary Rhetorical Studies
RHT 460	Writing Across the University: Language and Disciplinary Culture
RHT 491	Internship
WHP 310	Injury Prevention, Control, and Safety Promotion

## U.S. Diversity

*U.S. Diversity prepares the student to demonstrate:*

- *knowledge of how diverse value systems and societal structures are influenced by at least two of the following: race, gender, ethnicity*
- *identify major challenges and issues these raise in society*

*Approved diversity courses may double count in the major and/or general education.*

ALS 374	Cross-Cultural Communication
AMS 300	Topics in American Culture
AN 331	Racial and Ethnic Relations
AN 381	Peoples of North America: Indians and Inuit (Eskimos)
AN 385	Historical Archaeology
CIN 150	Introduction to Film
COM 385	Multicultural Communication
DAN 175	Dance in American Culture
ECN 315	Economics of Gender and Race
EED 420	Managing the Classroom Community of U.S. Diverse Learners
ENG 112	Literature of Ethnic America
ENG 341	Selected Ethnic Literature
ENG 342	African American Literature
HRD 367	Cultural Diversity in the Workplace
HS 202	Social, Cultural, and Economic Perspectives in Health
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 312	The Civil War and Reconstruction, 1850-1876
HST 315	American history, 1928-1945
HST 319	History of the American South
HST 322	Women in Modern America
HST 323	The Civil Rights Movement in America
HST 361	History of American Families
HST 362	History of African-American Women
HST 366	Slavery and Race Relations in the New World
HST 367	History of Mexico
MUS 200	Cultural Foundations and Historical Development of Rock Music
MUS 336	Music of the Americas: African Origins
MUS 338	Jazz and Blues: American Musics
NRS 302	Nursing: Vulnerable Populations
NRS 304	Human Sexuality
NRS 450	Vulnerable Populations for RN
PS 100	Introduction to American Politics
PS 203	The Politics of Race and Ethnicity
PS 300	American Political Culture
PS 371	American Political Thought
RHT 330	Digital Culture: Identity and Community
RHT 334	Writing about Culture: Ethnography
SOC 100	Introduction to Sociology
WHP 370	Culture, Ethnicity and Well-being
WS 200	Introduction to Women's Studies
WS 300	Women in Transition

## Writing requirements

Students must satisfy the university general education requirements in the Knowledge Foundations area of Writing by 1) completing a writing foundations course 2) completing a writing intensive course in general education and 3) completing a writing intensive

course in the major. Writing intensive courses can double count with approved courses in general education and approved courses in the major.

### Writing Foundations Course

Prerequisites: Students may satisfy the prerequisites for the writing foundations course by successfully completing the required course work, by submitting evidence of achieving a score of Level 1 on the MEAP Writing Test, by submitting AP English Language and Composition examination scores of 3, or by submitting a Placement Packet to the Rhetoric Program faculty (see Rhetoric Program portion of the catalog for further information).

Students may complete the requirement for a writing foundations course in one of three ways:

- a. By course work at Oakland University: Complete RHT 160 or equivalent (and any required prerequisites). Students must earn a 2.0 or higher to meet the writing knowledge foundation requirement. [Note: Some majors require a higher grade. Please consult with your adviser.]
- b. By transfer: Transfer one college level writing course (minimum 3 semester credits) at the level of RHT 160 that meets the two general education learning outcomes for Writing Foundations (and any required prerequisites). Students who have completed such a course may submit their transcripts to the Registrar for evaluation.
- c. By exemption portfolio: Students may submit an exemption portfolio to demonstrate that they have developed the skills taught in writing foundations. The knowledge area requirement for writing foundations can be met through the portfolio, but students must still meet the 40-credit minimum for general education. The exemption portfolio process entails the submission of a collection of the student's original graded papers from college courses for review by the Rhetoric Program faculty in accordance with the following instructions:

Exemption Portfolio requirements:

1. Identification cover page including certification that the portfolio includes the student's own work (cover sheet and directions available from the Rhetoric Program office, 316 Wilson Hall, 248-370-4120 or online at <http://www2.oakland.edu/oakland/ouportal/index.asp?item=2045&site=64>).
2. Letter (suggested limit: one page) addressed to the Rhetoric faculty describing the student's writing experience and development. The letter should explain the types of writing the student has done.
3. The graded originals of three single-author papers written by the student for college classes (Oakland University or other institutions). One of these papers must demonstrate that the student can design, conduct and report on a research project using and documenting outside sources in a standard system such as MLA or APA or another clearly identified system without plagiarism. For the research writing, students should include photocopies or printouts of at least three cited pages from the sources used for the paper.
4. Students wishing to appeal a decision regarding a submitted Exemption Portfolio may do so by petitioning the General Education Committee through the student's academic adviser.

### 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 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.
4. Second degree students from regionally accredited institutions are exempt from Oakland University's undergraduate requirement for a writing foundations course at the level of RHT 160.

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 Teacher Development and Educational Studies, 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 degree requirements outlined in this catalog. The request should be made on a Petition of Exception form available from the appropriate advising office. Petitions requesting modification of the normal requirements of a major should be directed to the chairperson of the major

department, while those addressing university-wide undergraduate degree requirements should be returned to the adviser for referral to the appropriate body. The student, the registrar and the student's academic adviser will receive copies of the petition showing the action taken.

## English Proficiency Policy

International applicants, other visa holders, permanent residents, and exchange students whose native language\* is not English must provide proof of English proficiency.

### Admission

One of the following constitutes proof:

1. TOEFL                      550 minimum on paper-based TOEFL<sup>a</sup>  
   213 minimum on computer-based TOEFL<sup>a</sup>
2. MELAB                      77 minimum
3. 24 transferable credits, excluding ESL coursework, from a U.S. community college or baccalaureate institution
4. a baccalaureate degree from a regionally accredited U.S. college or university
5. 1 year of study and a diploma from a U.S. high school

<sup>a</sup>Some programs at Oakland University may require a higher level of proficiency than listed above. Applicants should examine the program description for their field of study for information about additional English proficiency requirements and furnish proof as part of the admission process (admissions: <http://www.Oakland.edu>; click on "Prospective Students").

### Admission with ESL coursework

One of the following constitutes proof:

1. TOEFL                      520-549 on paper-based TOEFL  
   192-212 on computer-based TOEFL
2. MELAB                      73-76

Students must register for ESL courses as part of their coursework starting in their first semester of registration. ESL placement is done by the English as a Second Language Center (ESL Center) using the Institutional TOEFL and other assessment tools. Upon completion of the individualized ESL instruction sequence, students' English Proficiency will be evaluated using the Institutional TOEFL to determine whether additional ESL coursework is necessary to achieve English Proficiency. The individualized ESL instruction sequence designed by the ESL Center is not negotiable.

Satisfactory completion of the individualized ESL instruction sequence is expected within one year, but ESL coursework is required until minimum proficiency is demonstrated.

### Admission to intensive English program

Prospective students who do not have adequate English Proficiency for admission or admission with ESL coursework to the university can be admitted to the Intensive English Program. ESL placement is done by the English as a Second Language Center (ESL Center) using the Institutional TOEFL and other assessment tools. Upon completion of the individualized ESL instruction sequence, students' English Proficiency will be evaluated using the Institutional TOEFL to determine whether additional ESL coursework is necessary to achieve English Proficiency. The Individualized ESL instruction sequence designed by the ESL Center is not negotiable.

Upon completion of the Intensive English Program, students may (re)apply for admission to Oakland University; applicants are evaluated using the admission criteria described above.

\* A native language is a language that is acquired naturally during childhood and is usually spoken at home, as opposed to a language that is learned later in life, for example as a part of a person's formal education. Students whose native language is not English are encouraged to visit the English as a Second Language Center to discuss any language difficulties they may have while attending Oakland University.

## **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 mail 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. Students may locate their adviser by consulting the list of school and departmental advising offices in the Advising Index at the front of this catalog and published in the Schedule of Classes each term.

### **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 regionally accredited 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, 248-370-3452).

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, such credits are limited to no more than one-half the minimum credits required for completion of a specific baccalaureate program. Additional credit may be transferred from regionally accredited four-year institutions. At least 32 credits must be 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.

After transferring to Oakland University, students must complete a writing intensive course in the major, a knowledge applications course, and a capstone course. Transfer students are exempt from the writing in general education requirement. Under the MACRAO agreement, transfer students from participating Michigan public community colleges must present for review a transcript bearing the "MACRAO Agreement Satisfied" stamp.

### **General education requirements for transfer students**

All transfer students who enter Oakland University prior to fall of 2008 fall under the general education requirements in the 2004-2005 Undergraduate Catalog. Transfer students entering the University prior to fall 2008 may elect to meet the general education requirements in the 2005-2006 catalog, but they are not required to do so.

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 three-semester-hour transfer course may serve as the required course in a particular

knowledge area, but students must still present a total of 40 credits and all ten knowledge areas must be represented. Transfer students must also complete the writing intensive course in the major, a knowledge applications course, and the capstone course.

### **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 one to four 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 seven-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 eight 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 eight 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.

## Appeal of grade

Students desiring to appeal a grade should first contact the instructor who issued the grade. If satisfaction is not received the student may further appeal, in turn, to the program coordinator, the department chair and, finally, to the school dean, whose decision is final.

## Academic Records

Academic records are maintained in the Academic Records Office (102 O'Dowd Hall, 248-370-3452). 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, 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).

## Campus Sex Crimes Prevention Act

Oakland University shall comply with the applicable requirements of the new "Campus Sex Crimes Prevention Act," beginning in 2002, which states that every sex offender registers under "Megan's Law" provide information of his/her enrollment or employment by a college or university. Names of registered sex offenders enrolled or working at Oakland University is provided by the Oakland University Police Department (OUPD) with campus jurisdiction from the State government. To obtain this information, please contact the OUPD, 3 Police & Support Services Building, 248-370-3331 or the police website: <http://mirage.otus.oakland.edu/oupd/oupd.htm>. Questions or further information regarding the Campus Sex Crimes Prevention Act may be obtained by contacting the Vice President for Student Affairs, 248-370-4200 or the Director of Police, 248-370-3000. In accordance of the "Family Educational Rights and Privacy Act," nothing may be construed to prohibit Oakland University from disclosing information provided to the university concerning registered sex offenders. Finally, it is required that the Secretary of Education take appropriate steps to notify Oakland University that disclosure of this information is permitted.

## 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 defines the use of these records by others. The dean of students is the university compliance officer for the Family Educational Rights and Privacy Act.

Students who do not want directory information to appear on the Oakland University web site can restrict release of such data by doing the following:

- Login to Sail
- Click on Login to Secure Area
- Complete the User Login
- Select Personal Information
- Select Directory Profile
- De-select the Display in Directory option for items you wish to not appear in the web directory.

Students who do not want directory information released in any other form must notify the Office of the Registrar in writing. Forms for this purpose are available in 101A O'Dowd Hall. Upon receipt of the completed form or a letter, directory information will be withheld until the student requests in writing that it be released. Requests for privacy may also be faxed to the Registrar at 248-370-3461.

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, 248-370-3352). 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 (248-370-3352) and/or filed with the U.S. Department of Education.

## **University Approval for Research Activities Involving Human and Animal Subjects, Biosafety, and Radiation Safety**

### **Protection of human subjects**

All research projects involving the participation of human subjects or use of materials of human origin must be submitted for review by the Institutional Review Board for the Protection of Human Subjects (IRB) before the research can be conducted. This requirement includes all research, from low-risk investigations such as surveying people on the street about their favorite television shows to high-risk studies like clinical trials of experimental medical treatments. Applications are submitted online (see "Online Application for Conducting Research" section). All students conducting research must have a faculty sponsor. The student and faculty sponsor are jointly responsible for contacting the IRB and for keeping abreast of the approval process as it pertains to the study.

To access the Human Subjects Tutorial, visit <http://www2.oakland.edu/research>.

For more information about human subjects review and to access the Oakland University Guidelines for Research Involving Human Subjects, visit <http://www2.oakland.edu/research> or contact Dr. Judette Haddad at (248-370-4898) or [haddad@oakland.edu](mailto:haddad@oakland.edu).

### **Protection of animal subjects**

Research using vertebrate animals must have the approval of the Institutional Animal Care and Use Committee (IACUC) and be conducted according to university guidelines.

For more information visit <http://www2.oakland.edu/research> or contact Cliff Snitgen at (248-370-4441) or [snitgen@oakland.edu](mailto:snitgen@oakland.edu).

### **Biosafety**

All research, teaching and testing at Oakland University involving recombinant DNA, infectious agents and/or cultured cell lines must be approved by the Institutional Biosafety Committee (IBC). Approval is obtained through submission of biosafety research applications. Application must be submitted online through the **Research Application Manager** (see "Online Application for Conducting Research" section).

For more information visit <http://www2.oakland.edu/research> or contact Dr. Judette Haddad at (248-370-4898) or [haddad@oakland.edu](mailto:haddad@oakland.edu).

### **Radiation safety**

Radioactive material (including machinery producing ionizing radiation) can only be used by authorized Oakland University permit holders or under the supervision of a permit



holder. User permits are issued by the Radiation Safety Committee (RSC) only to the full-time OU faculty members or principal investigators. All others must work under the supervision of a full-time faculty member.

To access the Radiation Safety Tutorial, visit <http://www2.oakland.edu/research>.

For more information, visit <http://www2.oakland.edu/research> or contact Dominic Luongo, Radiation Safety Officer at (248-370-4314) or [luongo@oakland.edu](mailto:luongo@oakland.edu).

## Online application for conducting research

To access the compliance committee applications referred to above, researchers should visit the Research Application Manager (RAM) at <http://www2.oakland.edu/research/appmanager/>.

Researchers who are accessing the site for the first time, should access the Step-by-Step Instructions at <http://www2.oakland.edu/research/appmanager/stepbystep.cfm> to create an account.

Depending on the elements involved and the scope of the project, students will gain access to the relevant applications required to conduct the study.

## 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.

#### Dean's list

At the end of each winter semester, students who achieve academic honors (3.60 to 4.00) in consecutive fall/winter semesters and are carrying 12 credits each semester will be placed on the Dean's List. Inclusion on the Dean's List for an academic year will be recorded on students' academic transcripts. Names of Dean's List students, except those who have requested privacy, will be published on an official list to be posted on campus. Students will also receive letters from the appropriate dean.

#### Departmental and school honors

Departmental or school honors may be awarded to selected students when their degrees are conferred. Criteria for earning these honors are described in the appropriate section of the *Undergraduate Catalog*. Departmental and school honors are recorded on students' 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 or using information from the World Wide Web or Internet without attribution 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 from both faculty members.

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 disciplinary reprimand, to probation, to suspension or expulsion (dismissal) from the university. Additionally, withdraw grades may be changed to the appropriate numerical grade. All confidential conduct records are maintained in the Office of the Dean of the 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 Records Office (102 O'Dowd 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 Academic Skills Center (103 North Foundation Hall, 248-370-4215).

### **Principles and practices**

The Academic Probation and Dismissal Policy is administered by the director of the Academic Skills Center 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 expense is provided by the State of Michigan, and it is the responsibility of the university to see that these funds are properly used. If 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 81 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. Students who receive notice of their dismissal after a term are advised to appeal the dismissal if they believe they have valid reasons to have the dismissal deferred. The Academic Standing and Honors Committee of the Faculty Senate will review appeals submitted within the ten-calendar day deadline and students will be notified regarding the decision of the committee by mail. Students whose appeals are approved by the Committee are required to participate in the Dismissal Option Status Program in the Academic Skills Center.
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 item 4 below).
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. continued on probation if they have attempted less than 24 credit hours and their semester GPA is 2.00 or higher, even though they may not meet the minimum requirements on the chart below, or
  - c. dismissed from the university if their semester GPA is below 2.00, they have attempted 24 or more credits, and their cumulative GPA is below the minimum GPA according to the chart below. For example, if at the end of a probationary semester/session, a student has attempted 26 credits, transferred 20 credits, has a semester GPA below 2.00, and a cumulative GPA of 1.70, the student will be dismissed from Oakland University.

Oakland University and Transfer Credit Earned	Minimum Required GPA
24-32	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 Skills Center (103 North Foundation Hall, 248-370-4215). 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 (103 North Foundation Hall, 248-370-4215).

### **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. Students may submit the Petition to the Committee through the Academic Skills Center (103 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. Particular programs, however, may have more stringent requirements, and students whose progress in a major has been interrupted should consult an adviser.

Students applying for readmission must submit an application to the Academic Skills Center (103 North Foundation Hall) at least 45 days prior to the start of the term in which the student expects to enroll. (Failure to apply in this time frame will result in not being allowed to register.)

If readmitted students fail to enroll for the semester or session for which their readmission is granted, that readmission is considered void. If students wish to enroll for the semester or session immediately following the term for which readmission was granted, they may do so with a written request to update their readmission application addressed to the Academic Skills Center. 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.

Readmission to the university is not automatic for students dismissed because of poor academic record. The number of times a student will be readmitted is limited. An application for a first readmission by a student who has been dismissed for insufficient academic progress is reviewed by the university's Readmission Committee. Decisions about readmission are made on a case by case basis involving review of the student's file.

A student dismissed for academic performance who is readmitted but fails to progress academically, resulting in a second academic dismissal, may not apply for readmission to the university for a period of three years. The Academic Standing and Honors Committee will review the Academic records of students applying for readmission a second time. If a student is dismissed for academic reasons a third time, the student may not be readmitted to Oakland University.

## Withdrawals

Students dropping all registered credits in a term must follow the withdrawal procedure, which is printed in the *Schedule of Classes* each term. 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.

## Problem Resolution

Students may encounter problem situations during their course of study at Oakland University that require review by appropriate administrative or academic personnel. The university's problem resolution procedure provides a fact-finding system for resolving problems between students and faculty or staff members when a review of the issues is not available through other established procedures. For some issues (e.g., discrimination, harassment) specific university procedures must be followed. The Dean of Students, located in 144 Oakland Center, is always available to advise students on the alternatives that are available to resolve a concern.

Each student, faculty member, administrator and staff member has an obligation to resolve problems fairly through discussion between the aggrieved student and the specific university person involved with the problem.

## Academic concerns

Each academic unit has developed its own internal procedure for resolving complaints about classroom situations and will provide a copy upon request. Generally, a student must **first contact the instructor**. If the problem is not resolved between the instructor and the student, the student **then contacts the department chair**. The department chair may then hear the facts of the case or refer it to an internal unit committee. If the problem is not resolved at this step, the student may **then contact the dean of the college or school** to continue the problem resolution process. In the case of graduate students, the school or college dean shall consult with the Director of Graduate Study. For cases involving grade

disputes and classroom procedures but not involving discrimination, harassment or illegal behavior, the process stops at the dean level.

In any case involving an academic concern, the student should be aware of the responsibilities of the instructor and of the student.

An instructor's responsibilities include, but are not limited to, the following:

1. The instructor should hold classes and examinations when and where officially scheduled.
2. Each instructor should be available in his or her office for student consultation for a reasonable number of hours each week and make these hours known.
3. The instructor should make known at the beginning of each course the objectives and nature of the course, dates of important events (e.g., tests, major assignments), and policies on grading, class attendance, tests, papers and class participation.
4. The instructor should ensure that the content of the course he/she teaches is consistent with the course description in the university catalog.
5. The instructor should adhere to university policies concerning students' rights.
6. The instructor should attend the meetings as required by the procedures of the unit concerning student grievances.

A student's responsibilities include, but are not restricted to, the following:

1. The student must know and adhere to the instructor's policies concerning attendance, tests, papers and class participation.
2. The student must direct academic complaints about a class through the channels explained above.
3. Upon the request of his or her instructor, the student should consult with the instructor at a mutually convenient time.
4. The student should attend the meetings as required by the unit grievance procedures.

In the above process, a student may discuss the problem with the instructor. However, it is beneficial for the student to write out the concerns and state the suggested resolution to the problem. The complaint should be supported with facts. If the problem is not resolved at the instructor level and advances to the department chair, students must document their concerns to assist the chair or the unit committee to understand the problem.

## **Non-academic concerns**

From time to time, students may experience concerns with their employment situation or service on campus. In these situations, the student may wish to contact the dean of students to discuss problem resolution steps. Generally, the procedure will involve presenting the facts to the immediate supervisor of the specific university employee involved. The student should clearly state the nature and basis of the alleged offense, the name of the person(s) who committed the offense, the specifics of the incident(s) involved and the names of any known witnesses. In handling such complaints, discretion will be exercised but no guarantee of confidentiality may be given, since an investigation will necessarily involve discussions with other parties.

The immediate supervisor of the person against whom the complaint was lodged must respond to the complainant within 30 days after the complaint was filed (unless an extension for additional review or information gathering is authorized). If the complainant is dissatisfied, a written appeal may be made to the next level of supervision. For non-academic complaints, appeals stop at the vice presidential level.

## **Concerns about illegal discrimination or sexual harassment**

University policy prohibits illegal discrimination. Discriminatory conduct or discriminatory harassment means any physical or verbal behavior, including but not limited to sexual advances or requests for sexual favors, and any written behavior, including pictorial illustrations, graffiti or written material, that stigmatizes or victimizes an individual on the basis of race, sex, sexual orientation, age, height, weight, disability, color, religion, creed, national origin or ancestry, marital status, familial status, veteran status, or other characteristics not permitted by law.

In cases involving alleged illegal discrimination or harassment, the student should contact University Diversity & Compliance, 203 Wilson Hall, 248-370-3496.

Students with disabilities who wish assistance with handicap accommodations, but who do not feel that they have experienced discrimination, should contact the Office of Disability Support Services.

## **Time limits for all types of concerns**

In the interest of fairness to all parties, a complaint should be filed as soon as possible to assist in obtaining the facts related to the complaint. For this reason, a complaint generally will not be processed unless it is filed no later than sixty (60) days after the student became aware or should have become aware of the incident leading to the complaint. However, the University may waive the 60-day rule based upon the facts and circumstances of the complaint and after giving due consideration to the protection of the rights of both the Complainant and the individual accused.



# UNIVERSITY LIBRARY

**Interim Dean:** *Julie Voelck*

**Office of the Dean:** *Brenda Pierce, Assistant to the Dean/Business Manager*

**Professor Emeriti:** *Indra M. David, Suzanne O. Frankie, George L. Gardiner, Robert G. Gaylor, Janet A. Krompart*

**Associate professors:** *Kristine S. Condic, Frank Lepkowski, Mildred H. Merz*

**Assistant professors:** *William Cramer, Linda L. Hildebrand, Elizabeth Kraemer, Shawn Lombardo, Ann M. Pogany, Daniel F. Ring, Robert Slater, Anne Switzer*

**Managers:** *Eric Condic, Library Systems; Louann Stewart, Access Services; Patricia Clark, Interlibrary Loans*

## Library Facilities

Located in the center of campus, the Kresge Library houses collections of books, journals, reference works, government documents, musical scores and recordings, as well as a wireless network and computer workstations to access an array of digital resources. The Library features seating for individual study, rooms for group work, meeting rooms, audiovisual rooms, rooms with adaptive equipment for students with disabilities, and a student lounge. There are also two networked instruction rooms with 25 workstations in each, and two public computer labs.

## Library Collections

The Kresge Library's collections include over 719,000 books, approximately 1,520 printed and 1,940 electronic journal subscriptions, over 230,000 federal and state documents, and more than 1.1 million microforms.

The Library's Homepage and online catalog serve as gateways to dozens of specialized and general research databases, and hundreds of full-text electronic journals and e-books, covering a wide range of disciplines and research areas.

In addition to electronic reference resources, the *Matilda R. Wilson Reference Collection* includes atlases, bibliographies, dictionaries, encyclopedias, indexes, yearbooks, and other print reference materials.

Special collections include the *Hicks Collection of Early Books By and About Women*, the *Springer Collection of Lincolniana*, the *James Collection of Books on Folklore and Witchcraft*, and the *Bingham Collection of Historical Children's Literature*.

The University Archives is a repository of materials relating to the history of Oakland University, and includes copies of all dissertations written at OU, as well as a substantial number of faculty authored monographs.

## Library Services

Web site: [www.kl.oakland.edu](http://www.kl.oakland.edu)

Phone: (248) 370-4426

Send an e-mail message to a librarian: [ref@oakland.edu](mailto:ref@oakland.edu)

## Reference assistance and research consultations

Librarians provide reference and research assistance in-person at the Reference Desk, by telephone, via online "chat," or by e-mail. Librarians also offer individualized and customized research consultation sessions by appointment. These in-depth, one-to-one sessions are designed to help students identify and use print and digital resources pertinent to their research topics.

## **Library instruction**

As information literacy specialists, librarians provide extensive instruction for students on using print and digital resources, constructing effective research strategies, and evaluating the information identified. These instruction sessions are a core component of every Rhetoric 160 course. Librarians also provide customized, course-related sessions in the disciplines, as well as workshops on special topics.

## **Circulation and course reserve services**

At the Circulation Desk, undergraduate students may borrow books for a period of 3 weeks, with unlimited renewals, unless another borrower has requested the materials. Students may also borrow Course Reserve materials that have been placed on reserve by their professors. An increasing number of reserve items are available in electronic format on the Web.

## **Interlibrary loan service**

Students may request books and articles not owned by the Kresge Library through the Library's interlibrary loan service. Requests can be made in-person, or through the forms available on the Web.

# OTHER PROGRAMS

## Evening Degree Programs

Students may earn an undergraduate or graduate degree, concentrations or minors from a variety of different program areas through evening courses. Some areas include accounting, English, human resources development, human resource management, or counseling. Students who are interested in seeking a degree solely at night should contact the prospective department of interest for more information. Academic advising for evening students is available on an appointment basis only; students should contact the appropriate school or college advising office for further information.

## Extension program

Oakland University cooperates with Macomb Community College by offering a variety of different baccalaureate and graduate degree programs at Macomb's University Center. Oakland University's School of Education and Human Services (SEHS), the School of Engineering and Computer Science (SECS), and the School of Business Administration (SBA) offer a variety of their programs. Also in cooperation with MCC, OU's Personal Financial Planning Program is offered on Saturday mornings at Macomb's University Center. The PFP Program is a CFP Board registered program. For an explanation of general admission requirements to Oakland University and an overview of the programs offered at Macomb's University Center, please consult Oakland University's undergraduate and graduate catalogs. For additional information about the Oakland University programs at Macomb's University Center or Oakland University services available to Macomb's University Center students, please call Macomb's University Center office, (586) 263-6242, or the Oakland University Evening and Extension Program office, 248-370-4010.

Oakland University offers evening undergraduate and graduate courses at various sites within southeast Michigan.

Extension courses are also 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

Continuing education at Oakland University is delivered through the various academic units. These programs address the needs of professionals and nontraditional adult learners as well as those preparing to enter degree programs. Information on the programs offered can be obtained by calling the relevant school or college dean's office.

## Diploma, certificate and relicensure programs

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

The Paralegal Certificate Program, approved by the American Bar Association, is an evening program that trains paraprofessionals to perform law-related duties for attorneys in a variety of workplaces. Most legal assistant courses have been approved for two hours of undergraduate credit in political science. Eight credits of these courses can be applied toward a major in political science. These courses may also be taken as electives by students in other programs. For more information on undergraduate credit, see the political science listings or contact the Center for Executive and Continuing Education in the School of Business Administration.

The Personal Financial Planning Certificate Program, offered by the Center for Executive and Continuing Education in the School of Business Administration, is designed to prepare individuals who are now or might become involved in advising clients about financial planning, to prepare them to sit for the CFP® license examination. The center also offers a certificate program in Production and Manufacturing Management for individuals who wish to gain the knowledge and improve their skills for the constantly changing manufacturing environment.

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.

## **Educational test preparation workshops**

Test preparation workshops for the SAT, ACT, Graduate Record Exam (GRE), Graduate Management Admission Test (GMAT), 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 LSAT for those applying for entry into law school. Information on these workshops is available through the Center for Executive and Continuing Education in the School of Business Administration.

## **Conferences and seminars**

Conferences on topical subjects are offered throughout the year. Included among the offerings are: conference, seminar and corporate training programs of the Center for Executive and Continuing Education.

## **Air Force Reserve Officer Training Corps (AFROTC)**

Oakland University participates in a "Crosstown" agreement with the Southeast Michigan Air Force ROTC unit housed at the University of Michigan in Ann Arbor. Under this agreement, eligible Oakland University students may enroll at Oakland and take the required General Military and Professional Officer training courses in Ann Arbor. The program leads to appointment as a commissioned officer in the United States Air Force for those who meet requirements and may include scholarship aid and other financial support. Some Aerospace Science (AS) courses offered at the University of Michigan may be used to fulfill other requirements. For the 2005-2006 academic year, AS 300, Air Force Leadership Studies, will be accepted as a 300-level management elective for a business major in general management. For possible use of AS courses as electives, please contact the Registrar. For further information about the AFROTC program contact the Air Force ROTC Detachment 390 at (734) 647-4093 or e-mail [afrotc@umich.edu](mailto:afrotc@umich.edu). Or you can access the AFROTC Det 390 web site at [www.umich.edu/~det390](http://www.umich.edu/~det390).

## Athletics

Oakland University is a Division I-AAA member of the National Collegiate Athletic Association. Oakland's male athletes participate in intercollegiate baseball, basketball, cross country, golf, soccer, swimming and diving. Oakland's female athletes participate in basketball, cross country, golf, soccer, softball, swimming and diving, tennis and volleyball. In addition to the Mid-Continent Conference schedule, the Golden Grizzlies regularly compete against Michigan State, Central Michigan, Eastern Michigan, Western Michigan, Michigan, Ohio, Toledo, Bowling Green, UD-Mercy, as well as other schools from across the nation in various sports.

Oakland University is recognized across the country for its outstanding athletic programs. Most teams compete successfully at the national level and numerous athletes have been awarded All-America honors. In the first five years of Mid-Con Competition, the Golden Grizzlies claimed 12 regular-season titles and 19 tournament championships. Hundreds of student athletes have earned academic honors.

# COLLEGE OF ARTS AND SCIENCES

217 VARNER HALL

(248) 370-2140  
Fax: (248) 370-4280

**Dean:** *David J. Downing*

**Office of the Dean:**

*Kathleen H. Moore, associate dean; C. Michelle Piskulich, associate dean;  
Janice M. Baker, administrative assistant; Janice S. Elvekrog, assistant dean;  
Thomas F. Kirchner, assistant dean; Gerard Jozwiak, director of computing resources;  
Julie M. Litchenberg, development officer; Cheryl A. Sullivan, advising coordinator;  
Nichole Dillard, 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, English, history, 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.

## 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 College of Arts and Sciences Advising Office (221 Varner Hall, 248-370-4567). 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 College of Arts and Sciences Advising Office.

Undecided students interested in programs offered by the college should meet with an adviser in the College of 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.

## 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 requires 153-161 credits in music education, and the Bachelor of Science degree in environmental health requires completion of 128 credits. No more than 8 credits in approved physical education courses 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), any elective minor(s), and any elective concentration(s).
7. Complete the university's writing foundation requirement (see *Undergraduate degree requirements*).
8. Complete the university's general education requirement (see *Undergraduate degree requirements*).
9. Complete the university's general education U.S. 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 a modern foreign language at the 115 level or above.

None of these requirements may be met by independent study courses, internships, field experience courses 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, 384, 386, 410 and 411.
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 foreign 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 and WS 200. Note: WS 200 may be used to fulfill this requirement or the general education requirement in the social science knowledge exploration area, not both. Additional information may also be obtained from the College of Arts and Sciences Advising Office (221 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.

**NOTE:** *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.*

### 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. Normally, not more than one-third of a department's graduates may be awarded departmental honors.



## Major Programs

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. *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.*

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.)	Linguistics (B.A.)
Applied Statistics (B.S.)	Mathematics (B.A. or B.S.)
Art History (B.A.)	Medical Physics (B.S.)
Biology (B.A. or B.S.)	Modern Languages and Literatures (B.A.)
Biochemistry (B.S.)	Music (B.A. or B.Mus.)
Philosophy (B.A.)	Music Theatre, Performing Arts (B.A.)
Chemistry (B.A. or B.S.)	Physics (B.A. or B.S.)
Communication (B.A.)	Political Science (B.A.)
Dance, Performing Arts (B.A.)	Psychology (B.A.)
Economics (B.A.)	Public Administration (B.S.)
English (B.A.)	Sociology (B.A.)
Environmental Health (B.S.)	Studio Art (B.A.)
History (B.A.)	Theatre Performance, Performing Arts (B.A.)
International Studies (B.A.)	Theatre Production, Performing Arts (B.A.)
Journalism (B.A.)	Women's Studies (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, English, history, mathematics, modern languages and literatures, music and physics. Generally, eligibility for admission to the STEP requires a GPA of 3.00 in both the major and minor, and an overall GPA of 2.80. No single major or minor course grade may be below 2.0. Second-undergraduate degree candidates completing major and/or minors for STEP may be required to complete coursework at Oakland University beyond the stated minimums. For more information on program and admission requirements and procedures, please consult with advisers in the appropriate college department and the School of Education and Human Services.

## 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 for International Program section of the catalog and consult with the center's director, Peter J. Bertocci (248-370-2154).

## 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 and consult the program coordinator, Arik Dvir (248-370-3550).

### **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 the *Environmental Health Program* section of the catalog and consult the program coordinator, Dagmar Cronn (248-370-2320).

### **Women's Studies program**

Women's studies constitutes an interdisciplinary field devoted to the description and analysis of women's experiences in historical and contemporary societies. Particular attention is given to differences among women in various social and cultural contexts, the representation of women in literature, art and the media, and the treatment of women by medical and biological sciences. For details about requirements for the Bachelor of Arts degree with a major in women's studies, see the *Women's Studies Program* section of the catalog and consult the program coordinator, Suzanne Spencer-Wood (248-370-2503).

### **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.

College of 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*).

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

Under certain conditions, a student may earn more than one degree. Such students are double-degree candidates. For information on the restrictions that apply to the awarding of more than one degree and the requirements that double-degree candidates must satisfy, please see *Additional undergraduate degrees and majors*.

## Independent majors

Students interested in academic areas in which no suitable major program is available may petition the college Committee on Instruction for an individually tailored independent major in place of one of the departmental majors listed above. An independent major also may be taken as part of a double-major program in conjunction with a regular departmental major, provided that no course counted toward completion of the departmental major is also counted toward completion of the independent major. Students will be admitted to the independent major only after completing 32 credits but before completing 90 credits. For the specific requirements of an independent major, consult the College of Arts and Sciences Advising Office (221 Varner Hall, 248-370-4567).

## 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. *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.* 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 from the College of Arts and Sciences Advising Office (221 Varner 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 *College of 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 *College of Arts and Sciences* section), sociology, studio art (see *Art and Art History*) and theatre (see *Music, Theatre and Dance*), and Women's Studies (see the *Women's Studies Program* section of the catalog).

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, computing and 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.

## Secondary teaching minors

Completion of a secondary teaching minor is required as part of the secondary teacher education program (STEP) in preparation for teacher certification by the Michigan Department of Education. Only programs entitled “secondary teaching minors” are acceptable by the department.

Generally, a cumulative grade point average of 3.00 is required in courses included in the minor, with no single course grade below 2.0. Second undergraduate degree candidates completing major and/or minors for STEP may be required to complete coursework at Oakland University beyond the stated minimums. Courses taken to satisfy general education or college distribution requirements may also be used to meet those for the teaching minor. The College of Arts and Sciences offers the following secondary teaching minors, which are described in detail under departmental entries in this catalog: biology, chemistry, dance, economics, English, history, mathematics, modern languages (French, German, Spanish), physics, political science and sociology. *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.*

## 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. Some courses may satisfy a concentration requirement, the ethnic diversity requirement and either a general education or a college distribution requirement. *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.* 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; environmental studies; film aesthetics and history; French studies; preprofessional studies in medicine, dentistry, optometry and veterinary medicine; religious studies; social work; and urban studies. Information about premedical studies, prelaw studies, geography course offerings 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 health behavioral science in the School of Health Sciences, and applied statistics sponsored by the University Committee on Applied Statistics.

## Additional Information

### 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*.)

## Field experience courses

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 the departments or programs that offer these courses: art and art history; biological sciences; history; modern languages and literatures; psychology; rhetoric, communication and journalism; sociology and anthropology; women's studies.

## Cooperative education

Students majoring in one of the College of 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. 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 2.80 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.

# DEPARTMENT OF ART AND ART HISTORY

307 WILSON HALL

(248) 370-3375  
Fax: (248) 370-4208

**Chairperson:** *Susan E. Wood*

**Professor emeritus:** *Carl F. Barnes, Jr. (Art History and Archaeology)*

**Professors:** *John B. Cameron (Art History), Janice G. Schimmelman (Art History), Susan E. Wood (Art History)*

**Associate professors:** *Bonnie F. Abiko (Art History), Tamara Machmut-Jhashi (Art History)*

**Assistant professors:** *Claude Baillargeon (Art History and Studio Art), Stephen Goody (Studio Art; Director, Meadow Brook Art Gallery)*

**Special instructor:** *Andrea Eis (Art History and Studio Art)*

**Special lecturers:** *Lynn M. Galbreath Fausone (Studio Art), Louisa Ngote (Art History), Sally S. Tardella (Studio Art)*

**Lecturer:** *Kyohei Abe (Studio Art)*

**Chief adviser:** *Tamara Machmut-Jhashi*

**Studio art director:** *Andrea Eis*

The department offers programs of study leading to the Bachelor of Arts degree with a major in Art History or in Studio Art. 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 department also emphasizes critical thinking, writing and visual analysis of individual works of art. Studio art is an academic discipline that embraces both visual communication and expression of an intellectual vision. Majors in studio art may specialize in drawing, painting or photography.

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 and the paintings and decorative art objects at Meadow Brook Hall. The art and art history program cooperates with concentrations in American studies, archaeology, film aesthetics and history, French studies, international studies, religious studies, urban studies and women's studies.

The art history 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 studio art program is intended for students who are considering careers as professional artists, or in one of the many fields with ties to the arts, such as curatorial, research, and archival positions in museums and galleries, art history, critical writing, positions in

the corporate world that require creative approaches to problem solving, and art education. The B.A. in Studio Art is also excellent preparation for further post-graduate study in the visual arts. 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):
 

<b>Non-Western:</b>	AH 301, 304, 305, 308, 309
<b>Ancient/medieval:</b>	AH 310, 312, 314, 322, 326, 345
<b>Renaissance/Baroque:</b>	AH 330, 334, 340, 343, 345, 348
<b>American/modern:</b>	AH 343, 350, 352, 360, 361, 362, 363, 367, 368, 369, 370

[AH 343 Russian Art may satisfy the requirement *either* for Renaissance/Baroque *or* for American/modern art, but not both. AH 345 German Art may satisfy the requirement *either* for ancient/medieval *or* for Renaissance/Baroque, but not both.]

4. Four elective credits from AH courses
5. One AH course at the 400 level
6. SA 106 or 241 as a cognate to the major.

Departmental faculty 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 two years of college-level foreign language.

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

All majors in studio art are required to successfully complete a core group of studio art courses (12 credits) and a core group of art history (16 credits) courses. They are also required to complete a specialization (32 credits) in one of the following field areas: studio art, drawing, painting or photography. A minimum of 60 credits, distributed as follows:

1. Studio art core :
  - SA 106 Beginning Drawing
  - SA 115 Beginning Painting (SA 106 must be taken before SA 115)
  - SA 161 Beginning Photography

2. Art history core:

AH 101 Introduction to Western Art II

AH 300 Critical Thinking and Writing in Art

AH 361 Twentieth-Century Art, 1900-1945

AH 362 Twentieth-Century Art, 1945 to Present *or*

AH 369 History of Photography II, 1914 to Present (*for students in photography specialization only*)

3. 32 credits in one of the following specializations:

**Studio art:** SA 206, 215, 261, 375, 400; 3 elective courses (12 credits) in studio art, two of which must be at the 300 level.

**Drawing:** SA 206, 208, 306, 308, 400; 3 elective courses (12 credits) in studio art, two of which must be at the 300 level.

**Painting:** SA 215, 220, 241, 315, 400; 3 elective courses (12 credits) in studio art, two of which must be at the 300 level.

**Photography:** SA 261, 268, 361, 363, 400; 3 elective courses (12 credits) in studio art, two of which must be at the 300 level.

## Departmental honors in art history

Graduating seniors may apply for departmental honors. To be considered, students must have completed 20 credits of art history at Oakland University with a GPA of 3.65 or higher in the major, and must have taken either AH 490 or AH 491 (capstone course). Upon receipt of an application signed by the student and by the professor who supervised the student's capstone project, art history faculty will review that project and vote on whether to award honors.

All materials must be submitted to the chairperson at least four weeks prior to the last day of classes of the semester in which the student intends to graduate. If a student intends to graduate at the end of the spring session, he/she must submit all materials at least four weeks prior to the last day of classes of the preceding winter semester. Application forms are available in the departmental office (307 Wilson Hall).

## Departmental honors in studio art

Graduating seniors may apply for departmental honors. To be considered, students must have completed 20 credits of studio art at Oakland University with a GPA of 3.65 or higher in the major. Upon receipt of an application signed by the student and by the professor who supervised the student's senior thesis, the studio art faculty will review the student's SA 400 project (both written and visual material) and vote on whether to award honors. The application must be submitted to the chairperson at least four weeks prior to the last day of classes of the semester in which the student intends to graduate. If a student intends to graduate at the end of the spring session, he/she must submit all materials at least four weeks prior to the last day of classes of the preceding winter semester. Application forms are available in the departmental office (307 Wilson Hall).



## Requirements for the liberal arts minor in art history

A minimum of 20 credits in art history courses, to be distributed as follows:

1. Two of the following courses: AH 100, 101, 104
2. A total of 8 credits, one course from any two of the following categories:
  - Non-Western:** AH 301, 304, 305, 308, 309
  - Ancient/medieval:** AH 310, 312, 314, 322, 326, 345
  - Renaissance/Baroque:** AH 330, 334, 340, 343, 345, 348
  - American/modern:** AH 343, 350, 352, 360, 361, 362, 363, 367, 368, 369, 370
3. 4 elective credits from AH courses.

[AH 343 Russian Art may satisfy the requirement *either* for Renaissance/Baroque *or* for American/modern art, but not both. AH 345 German Art may satisfy the requirement *either* for ancient/medieval *or* for Renaissance/Baroque, but not both.]

## Requirements for the liberal arts minor in studio art

A minimum of 24 credits in studio art courses, to be distributed as follows:

1. SA 106, 115, 161
2. 12 credits from SA courses at the 200, 300 and 400 level; at least one 4 credit course must be at the 300 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. *Satisfies the university general education requirement in the arts knowledge exploration area.*

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

History and analysis of the visual arts of western Europe from the Renaissance to the present. *Satisfies the university general education requirement in the arts knowledge exploration area.*

#### 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. *Satisfies the university general education requirement in the arts knowledge exploration area.*

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

Introduction to research in art and art history, practice in writing about art from various points of view, and analytical reading of critical texts. Written and oral presentation of major research paper. Open to Studio Art and Art History majors only. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement*

Prerequisite: AH 100, AH 101 or AH 104, 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 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.

**AH 308 Native American Art (4)**

Native American art of the United States and Canada. Identical with AN 308. Identical with AN 308.

Prerequisite: 4 credits in art history.

**AH 309 Pre-Columbian Art (4)**

The arts of the Indians of Mexico, Central America and South America prior to the Spanish Conquest. Identical with AN 309.

Prerequisite: 4 credits in art history or IS 250.

**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 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 343 Russian Art (4)**

The development of architecture, sculpture and painting in Russia from the tenth century to the present.

Prerequisite: AH 101 or IS 260.

**AH 345            German Art (4)**

Development of architecture, sculpture and painting in Germany from prehistory to 1871.  
Prerequisite: AH 100 or 101.

**AH 348            English Art (4)**

The development of architecture, sculpture and painting in Britain from the Renaissance through the eighteenth century.  
Prerequisite: AH 101.

**AH 350            American Art (4)**

The development of architecture, sculpture and painting in the United States from the early colonial period to World War I.  
Prerequisite: AH 101.

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

The traditional image of woman in art and the contribution of women artists in Europe and the United States from the Middle Ages until the present. Identical with WS 351.  
Prerequisite: AH 101 or WS 200.

**AH 352            African-American Art (4)**

The arts of African-Americans from the colonial period to the present.  
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            Nineteenth-Century Art (4)**

The development of sculpture, painting and related media in the western world from the French Revolution to 1900.  
Prerequisite: AH 101.

**AH 361            Twentieth-Century Art I, 1900-1945 (4)**

The development of sculpture, painting and related media in the western world from 1900 to 1945.  
Prerequisite: AH 101.

**AH 362            Twentieth-Century Art II, 1945 to present (4)**

The development of sculpture, painting and related media in the western world from 1945 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 367            Film and the Visual Arts (4)**

The study of film as a visual art and the relationship between film and twentieth-century artistic movements.  
Prerequisite: AH 101 or CIN 150.

**AH 368            History of Photography I, 1825 to 1914 (4)**

Development of still photography as a mode of visual art and communication from its invention to the first world war.  
Prerequisite: AH 101 or permission of the instructor.

**AH 369            History of Photography II, 1914 to Present (4)**

The growth of still photography as a form of visual art and communication from the first world war to the present.  
Prerequisite: AH 101 or permission of the instructor.

**AH 370 History of Prints and Printmaking (4)**

The graphic arts in Europe and America from 1450 to the present, including printmaking techniques, collecting and conservation. Students will study original prints.

Prerequisite: AH 101.

**AH 375 History of the Decorative Arts (4)**

The decorative arts in Europe and America from 1450 to the present.

Prerequisite: AH 101.

**AH 380 Museum Studies in Art History (4)**

The study of the art museum, including an overview of the museum profession, management and care of collections, and the registration, conservation, exhibition and interpretation of art objects in a museum setting. The course format will include 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.

**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 on a different topic 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 395 Study Abroad in Art History (4)**

Specific topics and directed individual research in art history offered through the Center for International Programs. Specific international program will be announced in the schedule of classes.

Prerequisite: Permission of program director.

**AH 396 Directed Study Abroad in Art History (2)**

Directed individual research for art history majors who travel abroad to study art monuments. Topics must be approved by instructor before departure. May be repeated in a subsequent semester on a different topic for a total of 4 credits.

Prerequisite: 16 credits of art history of which 4 must be at the 300-400 level and permission of instructor.

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

Field experience for art history majors 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: Junior/senior standing; 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 490 Seminar in Art History (4)**

Seminar in specific areas of art history. May be repeated in a subsequent semester on a different topic.

Prerequisite: 16 credits of art history and/or permission of instructor.

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

Directed individual research for advanced art history majors. May be repeated in a subsequent semester on a different topic for a total of 8 credits.

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

**AH 493 Independent Research in Art History (8)**

Independent research for art history majors engaged in lengthy art history projects.

Prerequisite: 24 credits in art history of which at least 16 must be at the 300-400 level and permission of instructor.

**STUDIO ART**

*The following courses may include life studies from the nude: SA 106, 115, 206, 208, 215, 220, 241, 306, 315, 341.*

**SA 106            Beginning Drawing (4)**

The fundamentals of drawing, through accurate observation of the physical world, are explored: tools, techniques, rendering linear perspective and chiaroscuro.

**SA 115            Beginning Painting (4)**

Introduction to the technical, intellectual, inventive and expressing possibilities of oil painting on canvas.

Prerequisite: SA 106 and written permission of the instructor.

**SA 161            Beginning Photography (4)**

Introduction to the technical, intellectual, inventive and expressive possibilities of a broad range of traditional and non-traditional photographic processes.

**SA 206            Intermediate Drawing (4)**

Building upon traditional perceptual drawing skills, class moves towards more conceptual and experimental issues and applications of drawing.

Prerequisite: SA 106.

**SA 208            Life Drawing I (4)**

Drawing from the life model, this course focuses on the traditional practices of anatomical rendering.

Prerequisite: SA 206.

**SA 215            Intermediate Painting (4)**

Focus on technique, perceptual development and personal expression. Accurate rendering in paint of proportion, volume and chiaroscuro is given precedence.

Prerequisite: SA 115.

**SA 220            Life Painting I (4)**

Focuses on objective study and formal construction of the figure using oil paint. Emphasis is placed upon accuracy and chiaroscuro.

Prerequisite: SA 215.

**SA 241            Historic Painting Techniques I (4)**

Studying the techniques of the Old Masters, course focuses on the tools and methods of five hundred years of western painting, particularly oil glazes on panel, egg tempera on panel, fresco and oil on canvas.

Prerequisite: AH 101 or SA 115.

**SA 261            Intermediate Photography (4)**

Focus on the development of traditional photographic technique and the conceptual practice of photography as a fine art medium.

Prerequisite: SA 161.

**SA 262            Color Photography (4)**

Development of the technical and conceptual skills necessary to use color photography as an expressive medium. Projects will include both digital photography and 35 mm color slides.

Prerequisite: SA 261.

**SA 268            Video Art I (4)**

Introduction to the creation of video as an art form, including basic shooting, sound recording and editing of videos.

Prerequisite: SA 161 or CIN 150.

**SA 306            Advanced Drawing (4)**

Building upon SA 206, course explores issues in contemporary drawing, emphasizing personal expression, use of materials and aesthetic critical theory.

Prerequisite: SA 206.

**SA 308            Large Format Drawing (4)**

Explores the formal, conceptual, expressive and dynamic possibilities of large-scale drawing.

Prerequisite: SA 206.

**SA 310            Media Drawing (4)**

Pushes the boundaries of traditional drawing by examining new methods of working and new and nontraditional materials, exploring cutting-edge of new media and contemporary art.

Prerequisite: SA 206.

**SA 315            Advanced Painting (4)**

Focus is on the expressive and experimental possibilities of painting within the context of contemporary art and current aesthetic critical theory.

Prerequisite: SA 215.

**SA 341            Historic Painting Techniques II (4)**

Building on SA 241, class focuses on a particular epoch or artist for a more refined directed individual course of study.

Prerequisite: SA 241.

**SA 361            Advanced Photography (4)**

Focuses on advanced photographic technique, personal expressive form, contemporary photographic issues and aesthetic critical theory.

Prerequisite: SA 261.

**SA 362            Advanced Color Photography (4)**

Building upon SA 262, this course is an advanced study of the technical and conceptual practice of color photography in the media of digital photography and of 35 mm color slides.

Prerequisite: SA 262.

**SA 363            Digital Photography (4)**

Explores digital photographic processes (cameras, scanners and digital manipulation) as tools to create conceptually relevant art.

Prerequisite: SA 161.

**SA 368            Video Art II (4)**

Continuation of Video Art I, with emphasis on individual development and advanced editing.

Prerequisite: SA 268.

**SA 375            Conceptual and Postmodern Art (4)**

Advanced course explores the intellectual and expressive possibilities of conceptual and postmodern art through the creation of art that questions traditional modes of representation.

Prerequisite: SA 206, 215 or 261.

**SA 392            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 for 4 additional credits.

Prerequisite: Permission of instructor.

**SA 395            Projects in Studio Art (2)**

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

Prerequisite: 16 credits in studio art and permission of instructor.

**SA 399                    Field Experience in Studio Art (4)**

Field experience for studio art majors 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.

Prerequisite: Junior/senior standing; 16 credits in studio art, of which 8 must be at the 300 level, and permission of instructor.

**SA 400                    Senior Thesis in Studio Art (4)**

Focusing on directed individual study, the student completes a coherent body of advanced art work, culminating in a thesis exhibition and thesis paper.

Prerequisite: Senior standing, completion of 32 credits in studio art and permission of instructor.

**SA 495                    Independent Study in Studio Art (4)**

Directed individual investigation of specific problems in the visual arts. May be repeated in a subsequent semester on a different topic for a total of 8 credits.

Prerequisite: 16 credits in studio art, of which 4 must be at the 300 level in an appropriate studio art course, and permission of instructor.

# DEPARTMENT OF BIOLOGICAL SCIENCES

375 DODGE HALL

(248) 370-3550  
Fax: (248) 370-4225

**Chairperson:** *Thaddeus A. Grudzien*

**Professors emeriti:** *Francis M. Butterworth, William C. Forbes, Esther M. Goudsmit, Egbert W. Henry, Asish C. Nag, Nalin J. Unakar*

**Professors:** *G. Rasul Chaudhry, George J. Gamboa, Sheldon R. Gordon, R. Douglas Hunter, Charles B. Lindemann, Virinder K. Moudgil, John R. Reddan*

**Associate professors:** *Keith A. Berven, John D. Cowlshaw, Arik Dvir, Thaddeus A. Grudzien, Feona M. Hansen, Anne L. Hitt, Barkur S. Shastry, Satish K. Walia, Jill Zeilstra-Ryalls, Douglas L. Wendell*

**Assistant professors:** *Shailesh K. Lal, Gabrielle Stryker*

**Adjunct professors:** *Jeffrey L. Garvin, Tom Madhavan, V. Elliott Smith*

**Adjunct associate professors:** *Nalini Motwani, Miguelangelo J. Perez-Cruet*

**Adjunct assistant professors:** *Daniel A. Degner, Sumit Dinda, Andrew F. X. Goldberg*

**Special lecturers:** *Mary Ann Bednarski, Thomas G. Fishwild*

**Lecturers:** *Larry C. Anderson, Philip T. Clampitt, Gerard R. Jozwiak, Jenn-Tser Pan, Mark A. Sturtevant, Mary Tracy-Bee, Tracy L. Wacker*

**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 and molecular biology, developmental biology, ecology, evolutionary biology, genetics, microbiology, morphology, physiology, immunology 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 and a minimum of four BIO laboratory courses. Students must complete:

1. BIO 111, 113, 116, 325, 341, and one course each from two of the following areas:  
**Physiology:** BIO 207, 309 or 321  
**Morphology:** BIO 205, 305, 313 or 323  
**Ecology/evolution:** BIO 301 or 387
2. One of the following organismic biology courses selected in consultation with a biology adviser: (Note: BIO 307 does not satisfy this requirement)  
**Botany:** BIO 311, 327 or 373  
**Zoology:** BIO 303, 317 or 353  
**Microbiology:** BIO 319
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 157-158, 234)
5. 10 credits of physics (PHY 101-102 or 151-152, depending on MTH option, and 158)
6. MTH 141 plus any one of the following — MTH 122, 154, STA 225.
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. Note that some courses have incorporated labs into lecture credit while other labs are given separate credit. One semester of computer science (CSE 125 or 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 five BIO laboratory courses. Students must complete:

1. BIO 111, 113, 116, 325, 341 and one course each from two of the following areas:  
**Physiology:** BIO 207, 309 or 321  
**Morphology:** BIO 205, 305, 313 or 323  
**Ecology/evolution:** BIO 301 or 387
2. One of the following organismic biology courses selected in consultation with a biology adviser: (Note: BIO 307 does not satisfy this requirement)  
**Botany:** BIO 311, 327 or 373  
**Zoology:** BIO 303, 317 or 353  
**Microbiology:** BIO 319

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 157-158, 234 and either CHM 235 and 237 or CHM 220 and 325)
5. 10 credits of physics (PHY 101-102 or 151-152, depending on MTH option, and PHY 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. Note that some courses have incorporated labs into lecture credit while other labs are given separate credit. One semester of computer science (CSE 125 or 130) is recommended as an elective.

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

**Adviser:** *Feona M. Hansen*

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, 381 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 cell-molecular biology**

**Adviser:** *Anne L. Hitt*

Students considering a career in cell biology, biotechnology or molecular biology may elect this specialization in their sophomore year. Biology courses required are: BIO 309, 310, 319, 326, 342, 439, 440, 441, and 407 or 437. The selection of all courses should be planned in consultation with the adviser.

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

**Adviser:** *Satish K. Walia*

Students may elect this specialization in their sophomore or junior year. Biology courses required for the microbiology specialization are: BIO 319, 332, 421 and 465. The selection of all courses should be planned in consultation with the adviser.

### **Requirements for the modified major in biology (B.S.) 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).

## 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. Generally, eligibility for admission to the STEP requires a GPA of 3.00 in both the major and minor, and an overall GPA of 2.80. No single major or minor course grade may be below 2.0. Second-undergraduate degree candidates completing major and/or minors may be required to complete additional coursework at Oakland University beyond the stated minimums. Students in this program must complete the requirements for a B.A. or B.S. degree in the College of Arts and Sciences and concurrently fulfill the major 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, 309, 323 or 325
  - Physiology:** BIO 207 or 321
  - Zoology:** BIO 205, 303, 305, 317, 323, 353 or 465
  - Botany:** BIO 311, 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 such as ENV 308, 373; PHY 106
4. One course in science, technology and society, such as AN 300; CHM 300; ENV 308, 312, 373; PHL 318.
5. A senior paper based either on research performed under BIO 490 or a literature search of a research-oriented topic taken as BIO 405.

A program in STEP must also include a 20-28 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455 and SE 501 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 (363 Pawley Hall, 370-4182).

## 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.

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

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

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 Biological Sciences 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, 121 and 300 may not be counted toward this requirement. Coursework shall include one year of general biology (BIO 111, 113, 116 or equivalent). The remaining credits shall include one course each from the following categories:

1. Molecular/cellular biology: BIO 309, 321, 323, 325, 341, 351.
2. Organismic biology: BIO 205, 207, 311, 319, 327, 353, 373.
3. Evolutionary/ecological biology: BIO 301, 303, 317, 387.

In addition SED 427, Methods of Teaching Secondary Students, is required.

Non-science majors must complete an additional 4 credits in chemistry for a total of 24 credits for this minor. Students are also expected to have pre-calculus mathematics.

Generally, a cumulative grade point average of 3.00 is required in courses included in the minor, with no single course grade below 2.0. Post-baccalaureate candidates completing the minor may be required to take additional courses at Oakland University beyond the stated minimums. Students must consult with the departmental adviser.

## 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-biology 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. Offered fall and winter semesters. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

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

**BIO 121      Clinical Anatomy and Physiology (5)**

Basic human anatomy and physiology with clinical emphasis, *specifically for pre-nursing students*. Lectures are closely tied to laboratory activities. Computerized simulations (e.g., ADAM) are used to teach and test anatomy. Offered winter semester.

Prerequisite: BIO 111.

**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 the natural science and technology knowledge exploration area for 2005-2006.*

**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 090 is strongly recommended. Offered fall and winter semesters. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

**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 the natural science and technology knowledge exploration area.*

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. Offered fall and winter semesters.

**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. Offered fall and winter semesters.

Prerequisite: BIO 111.

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

Dissection and identification of the musculoskeletal system as well as other major organ systems using human cadavers. 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. Offered fall and winter semesters.

**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. Offered spring and summer semesters.

Prerequisite: BIO 111, 113, 116.

**BIO 305            Histology (4)**

Structural organization of vertebrate tissues and organs in relation to cell and tissue functions. Offered fall semester.

Prerequisite: BIO 111, 113.

**BIO 306            Histology Laboratory (1)**

Microscopic examination and identification of vertebrate tissues and organs. Preparation of histological slides. 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. Offered winter semester.

Prerequisite: BIO 111.

**BIO 309            Biology of the Cell (4)**

Introduction to the biology of the cell. Includes structure and function of cell organelles and physiological processes at the cellular and molecular levels. Offered winter semester.

Prerequisite: BIO 111, 113, CHM 157.

**BIO 310            Biology of the Cell Laboratory (1)**

Laboratory experience in cellular biology.

Corequisite: BIO 309.

**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 317            Vertebrate Zoology (5)**

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

Prerequisite: BIO 111, 113, 116.

**BIO 319            General Microbiology (5)**

Concepts include microbial metabolism and physiology, genetics and genomics, diversity and evolution, growth control and aseptic techniques, host-parasite relationships, and survey of human bacterial and viral pathogens. Emerging techniques and applications in molecular biology and genetic engineering will also be considered as they relate to microbiology. Includes laboratory experience. Not open to students who have taken BIO 307. Offered fall and winter semesters.

Prerequisite: BIO 325 or CHM 453.

**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 325 recommended. Offered fall semester.

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

Laboratory exercises in anatomical organization from cellular to organ systems with integrated physiological experiments. To accompany BIO 207 or 321.

**BIO 323      Developmental Biology (4)**

An examination of mechanisms regulating the development of various organisms. Emphasis on the cellular and molecular controls that govern gametogenesis, fertilization, tissue formation, cellular interactions and gene activity. Offered winter semester.

Prerequisite: BIO 309 or 341.

**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      Biochemistry I (4)**

Fundamentals of biochemistry. Structure, function, and isolation of biomolecules and subcellular components; enzyme catalysis and regulation; generation of metabolic energy; metabolism of carbohydrates, proteins, and lipids; nutrition implications; and molecular approaches in biological research. BIO 425 is a continuation of BIO 325. Offered fall and winter semesters.

Prerequisite: BIO 111, CHM 158.

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

Cellular extraction and purification of enzymes and enzymes kinetics. Analytical and quantitative methods for characterization of protein structure and activity.

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

**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. Offered in alternate fall semesters.

Prerequisite: BIO 111, 113, 116.

**BIO 333      Plant Physiology (4)**

Hormonal relationships, inorganic nutrition, osmotic relationships, metabolism, photosynthesis and tropisms.

Prerequisite: BIO 111 or 113.

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

Corequisite: BIO 333.

**BIO 341      Genetics (4)**

Fundamentals of classical and molecular genetics. Selected topics in human genetics, microbial genetics, biochemical genetics, molecular biology, cytogenetics and genomics. Offered fall and winter semesters.

Prerequisite: BIO 113, 111.

**BIO 342      Genetics Laboratory (1)**

Laboratory experience in genetics, including elementary experiments in Mendelian genetics and molecular genetics. Principles of hypothesis testing and data analysis.

Prerequisite: BIO 111, 113, 116. 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. Offered winter semester.

Prerequisite: BIO 111, 113, CHM 158.

**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. Offered fall semester.

Prerequisite: Sophomore standing.

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

An introduction to the study of animal behavior in the field and in the laboratory. Topics will include experimental design, data analysis, and writing in the scientific format.

Prerequisite: BIO 116 (with a grade of 2.0 or higher).

**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. Offered spring semester.

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 377      Marine Biology (2)**

Overview of the ocean environment with emphasis on marine organisms. Marine communities and adaptations from the intertidal zone to the abyssal plains will be presented. "The Blue Planet" film series will be an integral part of the course.

Prerequisite: BIO 111, 113 or equivalent.

**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. Offered alternate fall semesters.

Prerequisite: BIO 111, 113. BIO 341 recommended.

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

Occupational experience in biology with faculty supervision that incorporates student performance in a professional setting. May not be repeated for credit.

Prerequisite: Junior/senior standing. 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. Offered fall semester.

Prerequisite: BIO 207 or 321.

**BIO 405      Directed Readings in Biology (2, 3 or 4)**

Term paper based on library research of a current research-oriented biological topic. May be taken more than once. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing requirement: Completion of the university writing foundation requirement.*

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. Offered fall semester.

Prerequisite: BIO 325.

**BIO 409      Endocrinology (4)**

Endocrine systems, mechanisms of hormone action, interactions among hormones, the roles of hormones in growth, differentiation, and reproduction; tumor suppressor genes and oncogenes. Emphasis will be placed on human endocrine disorders and their clinical significance.

Prerequisite: BIO 207 or 321.



**BIO 421 Medical Microbiology (4)**

Bacterial and viral human pathogens, emphasizing their etiology, physiology, pathogenesis, epidemiology, control and diagnosis.

Prerequisite: BIO 319 or 325.

**BIO 423 Immunology (4)**

Human immune response. Emphasis on components of the immune system, antibody structure and function, antigen processing and presentation, Tcell responses, immune response to infectious diseases, and disorders of the immune system. Offered fall semester.

Prerequisite: BIO 341 or 325.

**BIO 425 Biochemistry II (4)**

A continuation of BIO 325. Topics include metabolism of lipids and nitrogen-containing compounds, biochemical mechanisms of hormone action, integration and control of cell metabolism, biochemistry of nucleic acids, and mechanisms of gene transcription and protein synthesis. Offered winter semester.

Prerequisite: BIO 325.

**BIO 437 Virology (4)**

Fundamentals of virology including classification of bacteriophages, plant and animal viruses, viral multiplication, and pathogenesis. Laboratory exercises to be included.

Prerequisite: BIO 309, 319, or 325.

**BIO 439 Molecular Biology (4)**

Basic molecular biology of viruses, prokaryotes, and eukaryotes with emphasis on cloning, expression and regulation of genes, applications of recombinant DNA, cancer, and genetic diseases/disorders.

Prerequisite: BIO 325 or 341 or permission of instructor.

**BIO 440 Molecular Biology Laboratory (2)**

Basic techniques in molecular biology: isolation and characterization of DNA and RNA, cloning, restriction analysis, nucleic acid hybridization and recombinant DNA techniques.

Prerequisite: BIO 439 or permission of instructor.

**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 443 Functional Genomics and Bioinformatics (4)**

Use and implementation of computer software for sequence analysis of nucleic acids and proteins. Emphasis on gene discovery, annotation, building phylogenetic histories, and state-of-the-art strategies used for gene expression analysis of an organism from a genome-wide perspective.

Prerequisite: BIO 341.

**BIO 451 Research Forum (1)**

A forum for students to present their research in a seminar environment and to discuss problems and potential solutions with other students and department faculty. May be repeated for up to 4 credits. Graded S/U.

Prerequisite: Permission of faculty supervisor.

**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            Topics in Cell Biology (4)**

Topics vary, but may include model systems, the origin of life, tissue culture, experiments in tissue culture, atherosclerosis, gene sharing, stem cells, oxidative defense systems, cell division, and discussion of breakthrough areas in cell biology.

Prerequisite: BIO 309 or 321 or 325 or 341.

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

Primary emphasis will be on learning the techniques of tissue culture.

Prerequisite: Requires permission of instructor.

**BIO 465            Medical Parasitology and Mycology (4)**

Integrated lecture-lab. Study of medically important protozoan, helminth, arthropod and mycotic organisms; their morphology, biology, pathogenesis, clinical manifestations, immunology, epidemiology and control. Laboratory methods for identification of medically important parasites. Offered winter semester.

Prerequisite: BIO 111, 113, 116.

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

Physiological responses of organisms to their environment, including plant/herbivore interactions, adaptations of desert animals, allelopathy, energy cost of animal activities, and communication on an organismal level. Offered alternate winter semesters.

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. Offered alternate fall semesters.

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. Offered alternate fall semesters.

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. Offered alternate winter semesters.

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 or during the junior year. Graded numerically or S/U by written arrangement with biology faculty supervisor. A maximum of 8 credits may be numerically graded. *Satisfies the university general education requirement for a writing intensive course in the major.*

*Prerequisite for writing requirement: Completion of the university writing foundation requirement.*

Prerequisite: Written agreement with a biology faculty supervisor.

**BIO 491            Selected Topics in Biology (2)**

Advanced topics in a specialized area of biological sciences. The topics and prerequisites may vary. May be repeated for additional credit.

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

Assisting in presenting a course, usually a laboratory course, to undergraduates. May be taken more than once. Cannot be counted as a biology laboratory course.

Prerequisite: Written agreement with a biology faculty supervisor.

# DEPARTMENT OF CHEMISTRY

260 SCIENCE AND ENGINEERING BUILDING

(248) 370-2320

Fax: (248) 370-2321

**Chairperson:** *Mark W. Severson*

**Distinguished professor emeritus:** *Paul Tombouliau*

**Professors emeriti:** *Gottfried Brieger, Kenneth M. Harmon, Steven R. Miller, Robert L. Stern*

**Professors:** *Maria Szczesniak Bryant, Arthur W. Bull, Denis M. Callewaert, Dagmar Cronn, Kathleen Moore, Joel W. Russell, Mark W. Severson, Michael D. Sevilla, R. Craig Taylor*

**Associate professors:** *Julien Gendell, John V. Seeley*

**Assistant professors:** *Amanda Bryant-Friedrich, Ferman Chavez, Roman Dembinski, Linda Schweitzer, Xiangqun Zeng*

**Special instructor:** *Ghassan Saed*

**Adjunct professors:** *David Becker, Grzegorz Chalasiniski, Anna C. Ettinger, Gholam-Abbas Nazri, Fazlul Sarkar, Han Xiao*

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

**Lecturers:** *John Baldwin, R. Terry Begnoche, Aruna Bidthanapally, Klaus Friedrich, Sanda Grosu, Robert R. Matheson, Abul Molla, Thomas Ott, Hari Prasad, William Robert, Cole Shoemaker, Christy Stine, Douglas Thiel, Jennifer Tillinger, Wendy Wilson*

**Chief adviser:** *Dagmar Cronn*

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 degree in chemistry, students should be admitted to major standing by the department at least three semesters before graduation. Students must consult with the chemistry department chief adviser and file an application for admission to major standing, which includes a curriculum plan, during the term in which they first take a 300-400 level chemistry course. This procedure is designed to ensure that an appropriate plan of studies is completed by graduation.

Applications for major standing in chemistry will be approved after completion of CHM 157 (or 167), 158 (or 168), 220, 234-235, 237, PHY 151 and MTH 154 with a grade point average of 2.00 or better.

Course work more than 10 years old is subject to re-evaluation by the department. An examination may be required to demonstrate proficiency in areas covered by such courses.

## 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.

To earn a Bachelor of Arts degree with a major in chemistry students must be approved for major standing and must complete the core curriculum, which requires a minimum of 44 credits in chemistry and 16 credits of corequisite courses, including:

### Core curriculum

CHM 157	General Chemistry I	5
CHM 158	General Chemistry II	5
(or 167-168)	Honors General Chemistry I & II	10
CHM 220	Introduction to Computational Chemistry	2
CHM 234	Organic Chemistry I	4
CHM 235	Organic Chemistry II	4
CHM 237	Organic Laboratory	2
CHM 325	Analytical Chemistry	4
CHM 342	Physical Chemistry I	4
CHM 343	Physical Chemistry II	4
CHM 348	Physical Chemistry Laboratory	2
CHM 362	Descriptive Inorganic Chemistry	3
CHM 400	Seminar (two semesters)	0
CHM 438	Inorganic/Organic Laboratory	2
BCM/CHM 453	Biochemistry	3

### Corequisite courses:

MTH 154-155	Calculus	8
PHY 151-152	Introductory Physics	8

CSE 130 is a recommended elective for chemistry majors.

## Requirements for the Bachelor of Science degree with a major in chemistry (ACS certified)

The Bachelor of Science degree with a major in chemistry consists of the core curriculum and corequisite courses plus a set of advanced courses. 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.

To earn a Bachelor of Science degree with a major in chemistry a student must be approved for major standing and must complete the core curriculum, which requires a minimum of 44 credits in chemistry and 16 credits of corequisite courses, plus 8 elective credits in chemistry at the 400 level of which at least two credits must be laboratories. The specific selection of the 8 elective credits in chemistry at the 400 level must be approved in writing by the chemistry department's chief adviser. No more than 3 credits of CHM 491 may be included as part of these 8 elective credits. The full degree requirement for the Bachelor of Science degree with a major in chemistry are detailed below:

#### Core curriculum

CHM 157	General Chemistry I	5
CHM 158	General Chemistry II	5
(or 167-168)	Honors General Chemistry I & II	10
CHM 220	Introduction to Computational Chemistry	2
CHM 234	Organic Chemistry I	4
CHM 235	Organic Chemistry II	4
CHM 237	Organic Laboratory	2
CHM 325	Analytical Chemistry	4
CHM 342	Physical Chemistry I	4
CHM 343	Physical Chemistry II	4
CHM 348	Physical Chemistry Laboratory	2
CHM 362	Descriptive Inorganic Chemistry	3
CHM 400	Seminar (two semesters)	0
CHM 438	Inorganic/Organic Laboratory	2
BCM/CHM 453	Biochemistry	3

Advanced set of chemistry courses (400 or above)  
(2 credits must be laboratories) 8

#### Corequisite courses:

MTH 154-155	Calculus	8
PHY 151-152	Introductory Physics	8

CSE 130 is a recommended elective for chemistry majors.

## 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.

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

**Coordinators:** *Dagmar Cronn (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. Requirements include:

1. MTH 154, 155, 254; APM 257 and PHY 151-152
2. CHM 157-158 (or 167-168 or 162-163), 234-235, 237, 325, 342-343, 348 and 471; one lecture or laboratory course (2 or 3 credits) above CHM 400
3. EGR 101, 401; CSE 141, 171; EE 222; ME 221, 241, 331 and SYS 325; choice of 8 credits from ME 438, 448, 449, 456, 482 and SYS 431.

Students in this program are not required to complete the College of Arts and Sciences distribution requirements. Students must complete the university's general education, writing proficiency and ethnic diversity requirements (see *Undergraduate Degree Requirements*).

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.

## Secondary Teacher Education Program (STEP): Chemistry

Adviser: *Dagmar Cronn*

The Secondary Teacher Education Program (STEP) at Oakland University is an extended program of study leading to certification. Generally, eligibility for admission to the STEP requires a GPA of 3.00 in both major and minor, and an overall GPA of 2.80. No single major or minor course grade may be below 2.0. Second-undergraduate degree candidates completing major and/or minors may be required to complete additional coursework at Oakland University beyond the stated minimums. Students in this program must complete the requirements for a B.A. or B.S. degree in chemistry in the College of Arts and Sciences and concurrently fulfill the major requirements listed below:

1. One course in earth science, such as PHY 106 or ENV 308, 373
2. One course in science, technology and society: CHM 300
3. One biology course: BIO 111 or some other course approved by the STEP adviser.

A program in STEP must also include a 20-28 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455; SE 501 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 (363 Pawley Hall, 248-370-4182).

## 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, 490 and 491. 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, 490 or 491.

## 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

Students pursuing a major in chemistry, B.S. program, take eight credits of 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 Biological Sciences, 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 157-158 (or 167-168), 234-235, 325 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

A minimum of 20 credits in chemistry are required for the secondary teaching minor in chemistry. Students transferring equivalent courses must still meet this 20-credit minimum. These must include CHM 157-158 (or 167-168), plus CHM courses from one of the following two options.

1. CHM 234, 220, and CHM 325. This option is restricted to students who also take BIO 325 (e.g. biology majors).
2. CHM 201, CHM 220 and CHM 325. Non-biology majors would normally select this option.

Non-science majors must complete an additional 4 credits in science for a total of 24 credits. In addition SED 427, Methods of Teaching Secondary Students (chemistry), is required.

Generally, a cumulative grade point average of 3.00 is required in courses in the minor, with no single course grade below 2.0. Second undergraduate degree candidates completing the minor may be required to take additional courses at Oakland University beyond the stated minimums. Students must consult with the secondary education minor adviser in the department.

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

The Bachelor of Science degree with a major in biochemistry provides students with all the requirements for a concentration in preprofessional studies with the exception of

PHY 158, which needs to be completed. The Bachelor of Science degree and the Bachelor of Arts degree with a major in chemistry provide students with all the requirements for a concentration in preprofessional studies with the exception of PHY 158, which must be completed, and five courses in biology/biochemistry. Students interested in a medical career should refer to the concentration in preprofessional studies in medicine, dentistry, optometry and veterinary medicine (*Other Academic Options*) and consult with the chemistry or biochemistry adviser and with the preprofessional studies adviser.

## 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 various introductory chemistry courses (CHM 090, 104, 143, 157, 162 and 167) are for students in different majors with different levels of mathematical and physical science preparation. Students who do not place in MTH 012 or higher MTH course are advised to complete MTH 011 prior to enrolling in any chemistry course. CHM 090 *Foundations for Chemistry* is designed for students who need additional preparation before enrolling in CHM 104, 143 or 157. Students must consult with the chemistry department adviser or their major adviser before enrolling in CHM 090, 104 or 143.

CHM 104 is designed primarily for prenursing students. Computer science and engineering students may enroll in CHM 143, 157, 162 or 167. Science majors (biology, biochemistry, chemistry, environmental health, physics) and students majoring in the health sciences should enroll in CHM 157 or 167. CHM 162 and CHM 167 are recommended for students with a strong preparation in chemistry and physics.

CHM 157-158 or CHM 167-168 are prerequisite to all higher chemistry courses except CHM 201 and 300. Credit will be allowed for only one of each of the following series of courses: CHM 104, 143, 157, 162 or 167 and CHM 158, 163 or 168. Credit will not be allowed in major and minor programs in chemistry, biology or physics for CHM 090, 201 and 300, except for CHM 300, which is allowed for the STEP majors in biology and chemistry.

### SCI 100      Physical Sciences in Life, the World and Beyond (4)

Interdisciplinary physical science course for non-science majors to enhance their scientific literacy and experience the scientific approach to problem solving in active-learning classrooms and hands-on and computer laboratories. Modules on the science of everyday life, science of the microscopic world, and the earth and beyond. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area for 2005-2006.*

Prerequisite: MTH 012 with a grade of 2.0 or higher or placement in higher level math course.

### CHM 090      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 104, 143 or 157. CHM 090 may not be used for major or minor credit in chemistry, biology or physics.

### 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. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

Prerequisite: MTH 011 with a minimum grade of 2.0 or placement in MTH 012 or higher MTH course; or CHM 090.

### CHM 143      Chemical Principles (4)

States of matter, atomic structure, bonding and molecular structure, chemical reactions, kinetics, equilibrium, acid-base chemistry and thermochemistry. Recommended preparation is three years of high school mathematics and one year of high school chemistry. Offered fall and winter.

Prerequisite: Score of 20 or higher on ACT mathematics exam; or MTH 012; or CHM 090.



**CHM 147      General Chemistry Laboratory I (1)**

Experimental investigation of chemical phenomena and measurements. This laboratory will not appear in the schedule of classes; students must obtain permission from the chemistry department adviser to register.

Prerequisite: CHM 144 and permission of chemistry adviser.

**CHM 148      General Chemistry Laboratory II (1)**

Training in the basic techniques of chemistry experimentation. This laboratory will not appear in the schedule of classes; students must obtain permission from the chemistry department adviser to register.

Prerequisites: CHM 145, 147 and permission of chemistry adviser.

**CHM 157      General Chemistry I (5)**

Integrated lecture-laboratory. States of matter, atomic structure, bonding and molecular structure, chemical reactions. Recommended preparation is three years of high school mathematics and one year of high school chemistry. *CHM 157 satisfies the university general education requirement in the natural science and technology knowledge exploration area.* Offered fall and winter.

Prerequisites: Score of 20 or higher on ACT mathematics exam; or MTH 012; or CHM 090.

**CHM 158      General Chemistry II (5)**

Integrated lecture-laboratory. Chemical reactions, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry. Offered fall and winter.

Prerequisite: CHM 144 and 147 or 157.

**CHM 162      Honors General Chemistry for Engineers I (4)**

Intensive introduction to chemistry in a small-class setting including selected research areas in chemistry. This course has common lectures with CHM 167 and is recommended for engineering majors with strong high school preparation in chemistry, physics, and mathematics. *CHM 162 does not satisfy the university general education requirement in the natural science and technology knowledge exploration area.*

Prerequisite: One year of high school chemistry and physics and placement in MTH 154 or higher or math ACT score of 25 or higher.

**CHM 163      Honors General Chemistry for Engineers II (4)**

A more intensive treatment of the topics in CHM 158 including selected research areas in chemistry in a small-class setting. This course has common lectures with CHM 168.

Prerequisite: CHM 162 or 167.

**CHM 167      Honors General Chemistry I (5)**

Integrated lecture-laboratory. A more intensive introduction to the topics in CHM 157 including selected research areas in chemistry in a small-class setting. *CHM 167 satisfies the university general education requirement in the natural science and technology knowledge exploration area.* Offered fall and winter.

Prerequisite: One year of high school chemistry and physics and placement in MTH 154 or higher or math ACT score of 25 or higher.

**CHM 168      Honors General Chemistry II (5)**

Integrated lecture-laboratory. A more intensive treatment of the topics in CHM 158 including selected research areas in chemistry in a small-class setting.

Prerequisite: CHM 157 or 167.

**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, *except for the STEP minor in chemistry.*

Prerequisite: CHM 104.

**CHM 220      Introduction to Computational Chemistry (2)**

An introduction to the use of modern computational methods for the solution of chemical problems, with emphasis on the use of high-level software packages. Topics include elementary computational procedures, statistical treatment of experimental data, graphical methods, and an introduction to molecular modeling. No computer programming experience required.

Prerequisite: CHM 157 or 167.

**CHM 234      Organic Chemistry I (4)**

Introduction to the structure, properties and reactivity of organic compounds.

Prerequisite: CHM 158 or 168.

**CHM 235      Organic Chemistry II (4)**

A continuation of CHM 234. A study of the organic chemistry of functional groups and an introduction to biologically important organic compounds.

Prerequisite: CHM 234.

**CHM 237      Organic Chemistry Laboratory (2)**

Basic organic laboratory manipulations at the semi-micro level, synthesis, spectroscopy and chromatography.

Prerequisite: CHM 158 or 168 and CHM 234. CHM 234 may be taken concurrently.

**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 and Society (4)**

*Designed for non-science majors and STEP chemistry majors and minors.* Applies chemistry to environmental topics including smog, ozone depletion, global climate changes, water pollution, acid rain, fossil fuel and nuclear and alternative energies. Several in-class laboratory experiences included. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both.*

Prerequisite: Completion of the university writing foundation requirement.

**CHM 310      Environmental Chemistry (3)**

Concepts from atmospheric and aquatic chemistry as it is applied to the environment such as photochemistry, global warming, ozone depletion, carbon cycle, equilibrium principles, acids and bases, complexation and dissolution, and electron transfer processes. Current topics in environmental issues and analytical methods will be discussed.

Prerequisite: CHM 234.

**CHM 325      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 158 or 168.

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

Kinetics, applications of thermodynamics to chemical systems and equilibria.

Prerequisite: CHM 158 or 168, MTH 155 and PHY 152.

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

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

Prerequisite: CHM 158 or 168, MTH 155 and PHY 152.

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

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

Prerequisite: CHM 220, 325, and 342 or 343.

**CHM 362      Descriptive Inorganic Chemistry (3)**

Structure, bonding and reactivity of inorganic compounds.

Prerequisite: CHM 235.

**CHM 400      Seminar (0)**

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

Prerequisite: Senior standing.

**CHM 412 Atmospheric Chemistry (3)**

Chemistry of atmospheric gases and aerosols. Environmental issues (stratospheric ozone depletion, global warming, photochemical smog, acid rain, biosphere/atmosphere interactions). Concepts (lifetimes, sources, sinks, transport, global cycles). Social issues (air quality standards, effects of air pollutants). Measurement techniques.

Prerequisite: CHM 342.

**CHM 413 Environmental Aquatic Chemistry (3)**

Applications of inorganic and organic chemistry in natural waters pertaining to environmental concerns. Topics include acid-base reactions, buffer systems, mineral precipitation, chemical complexation, redox reactions, adsorption phenomena, chemical-equilibria, and the influence of organic chemicals on transfer and reaction processes in the environment.

Prerequisite: CHM 234.

**CHM 426 Instrumental Analysis (3)**

An integrated examination of contemporary analytical instrumentation including spectroscopy, electrophoresis, chromatography and mass spectrometry. Emphasis is placed on developing a functional understanding through the analysis of samples typical of those examined in industrial laboratories. Two hours of lecture and four hours of laboratory per week.

Prerequisite: CHM 325.

**CHM 427 Electrochemistry (3)**

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

Prerequisite: CHM 325.

**CHM 432 Advanced Organic Chemistry (3)**

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

Prerequisite: CHM 235.

**CHM 438 Inorganic/Organic Laboratory (2)**

Synthesis, analysis and characterization of organic and inorganic compounds.

Prerequisite: CHM 237 and 362.

CHM 362 may be taken concurrently.

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

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

Prerequisite: CHM 342, 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: CHM/BCM 453, which may be taken concurrently.

**CHM 458 Biochemistry Projects (2)**

Advanced project-oriented instruction in biochemical laboratory techniques.

Prerequisite: CHM 457 and permission of instructor.

**CHM 463 Inorganic Chemistry (3)**

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

Prerequisite: CHM 362.

**CHM 470 Industrial Chemistry (3)**

Survey of the major sources and uses of chemicals, industrial chemical processes, fundamental raw materials and career paths available in the chemical industry. More intensive treatment of selected industrial processes.

Prerequisite: CHM 235.

**CHM 471 Structure and Synthesis of Polymers (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 Chemical and Physical Properties of Polymers (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 permission of instructor.

**CHM 477 Macromolecular Laboratory (2)**

Introduction to the synthesis and physical characterization of synthetic polymers.

Prerequisite: CHM 237 and CHM 471; CHM 471 may be taken concurrently.

**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. Cannot be used to satisfy the chemistry major requirements for 400-level courses. Graded S/U.

Prerequisite: Permission of instructor.

**CHM 491 Independent Research (1, 2, 3)**

Undergraduate research with at least four hours per week per credit. Requires a written report. Up to 3 credits may be used to satisfy the chemistry major requirements for 400-level courses.

Prerequisite: Permission of instructor.

**CHM 497 Apprentice Chemistry Teaching (1 or 2)**

Supervised participation in teaching undergraduate or high school courses in chemistry. May be repeated once for credit.

Prerequisite: Permission of instructor.

# DEPARTMENT OF ECONOMICS

440 ELLIOTT HALL

(248) 370-3283  
Fax: (248) 370-4275

**Chairperson:** *Addington Coppin*

**Professor emeritus:** *Eleftherios N. Botsas*

**Professors:** *Addington Coppin, Oded Izraeli, Kevin J. Murphy, Anandi P. Sahu, Jonathon Silberman, Miron Stano*

**Associate professors:** *Sherman Folland, Nivedita Mukherji, Ronald L. Tracy*

**Assistant professors:** *Fuad Hasanov, Kasaundra Tomlin*

**Chief adviser:** *Addington Coppin*

The curriculum in economics teaches students the concepts and tools of economic analysis, while providing them with the breadth and flexibility of a broad general education degree. Students learn how economic analysis can be applied to major problems facing individuals, businesses, the nation and the world today. A major in economics prepares students for the workplace of the future, which will require workers who are flexible, adaptable to change and who can propose practical solutions to solve problems quickly.

Besides preparing students for a career in the public and private sector, an education in economics is excellent preparation for law school, graduate school in public administration or economics, 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.

The Bachelor of Arts degree with a major in economics allows a student to pursue a liberal arts education while providing a background that business considers appropriate for most entry-level management positions. The Bachelor of Science degree with a major in economics has additional requirements in business and economics while providing educational and career flexibility not offered by a degree in business. The minor in economics is useful for liberal arts majors with an interest in business and for business majors who want to demonstrate their solid grounding in economics, the foundation for a business degree.

Students who are interested in attending graduate school in economics should see the department chairperson or an economics faculty mentor at an early stage of their undergraduate program. Academic advisers in the School of Business Administration (for B.A. and B.S. degrees) and the College of Arts and Sciences (for B.A. degree) or the chairperson of the Department of Economics do general student advising.

## **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. Students who have taken ECN 150 before ECN 200 or 201, and who subsequently become economics majors, should talk to the department chairperson. 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 ACT scores)	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 MIS 200)	4
QMM 250	Statistical Methods (or QMM 240 & 241)	6

**Required courses**

ECN 200 and ECN 201 or ECN 210	Principles of Macroeconomics Principles of Microeconomics Principles of Economics (combines ECN 200 and 201)	6-8
ECN 302	Intermediate Macroeconomics	3
ECN 303	Managerial Economics	3
ECN 304	Consumer Economics	3

**Economics major electives**

Choose six economics electives at the 300-level or above, one or more of which must be at the 400-level.

No more than 3 credits of ECN 490 may be counted as electives. Students taking ECN 150 before ECN 200 or ECN 201, and who subsequently become economics majors, should talk to the department chairperson.

Students may substitute one of the following courses, for an economics elective: ACC 200; ORG 330, ORG 331; MIS 300, MIS 304; MKT 302; POM 343, or a social science course (PS 353, SOC 301), or another course approved by the Department of Economics chairperson. *Note students must meet any course prerequisites before taking these courses.*

**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, ECN 210 (or 200 and 201), CSE 125 (or MIS 200) and QMM 250 (or QMM 240 and 241).
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 302, 303 and 304 are not required for admission to major standing in economics, students must earn a grade of 2.0 or better in ECN 302, 303 and 304 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.

**Requirements for a liberal arts 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 210 or both ECN 200 and 201 and any prerequisites for these courses. Students must earn at least 12 additional credits in economics (ECN) courses in order to fulfill the credit requirement. This minor is open to all students except economics majors.

Students taking ECN 150 before ECN 200 or ECN 201, and who subsequently become economic minors, should talk to the Department of Economics chairperson.

## Requirements for the secondary teaching minor in economics

A minimum of 20 credits in economics is required for the secondary teaching minor in economics distributed as follows:

1. ECN 200 and 201
2. Four courses (12 credits) with at least one course from each of the following three groupings:
  - a. ECN 309 (3), ECN 321 (3)
  - b. ECN 326 (3), ECN 373 (3)
  - c. ECN 310 (3), ECN 315 (3), ECN 338 (3), ECN 367 (3), ECN 378 (3)  
ECN 385 (3)

In addition SED 427, Methods of Teaching Secondary Students, is required.

Note: The department recommends that students choose ECN 321 or ECN 373. At least 6 credit hours must be taken at Oakland University.

Generally, a cumulative grade point average of 3.00 is required in courses for the minor, with no single course grade below 2.0. Second undergraduate degree candidates completing the minor may be required to take additional courses at Oakland University beyond the stated minimums. Students should consult with the chair in the Department of Economics (445 EH) or with the College of Arts and Sciences advising office (221 Varner).

## 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 satisfies the university general education requirement in the social science knowledge exploration area for 2005-2006.*

**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 200 and ECN 210 satisfy the university general education requirement in the social science knowledge exploration area for 2005-2006.*

**ECN 302-304:** 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 and have met the prerequisites.

**ECN 309-338:** Economics electives numbered 309 through 338 are applications of economics that are open to students who have taken ECN 150, 200 or 210.

**ECN 367-385:** Economics electives numbered 367 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 generally limited to students who have taken ECN 303.

A detailed description of the following economics courses is given in the School of Business Administration section of this catalog:

- ECN 150 Economics in Today's World (4)
- ECN 200 Principles of Macroeconomics (4)
- ECN 201 Principles of Microeconomics (4)
- ECN 210 Principles of Economics (6)
- ECN 302 Intermediate Macroeconomics (3)
- ECN 303 Managerial Economics (3)
- ECN 304 Consumer Economics (3)
- ECN 309 State and Local Public Finance (3)
- ECN 310 Economics of the Environment (3)
- ECN 315 Economics of Gender (3)
- ECN 321 Financial Markets and the Economy (3)
- ECN 326 International Economic Development (3)
- ECN 333 History of Economic Thought (3)
- ECN 338 Economics of Human Resources (3)
- ECN 367 Economics of Health Care (3)
- ECN 373 International Trade (3)
- ECN 374 Economics of International Finance (3)
- ECN 378 Economic Analysis of Law (3)
- ECN 380 Topics in Economics (3)
- ECN 385 Economics of Industries (3)
- ECN 405 Econometrics (3)
- ECN 409 Urban and Regional Economics (3)
- ECN 418 Seminar in Economic Policy (3)
- ECN 421 Monetary Economics (3)
- ECN 456 Public Finance (3)
- ECN 480 Special Topics in Economics (3)
- ECN 490 Independent Study (1-3)



# DEPARTMENT OF ENGLISH

517 WILSON HALL

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**Chairperson:** *Kevin T. Grimm*

**Distinguished professor emerita:** *Gertrude M. White*

**Professors emeriti:** *Joseph W. DeMent, Thomas Fitzsimmons, Nigel Hampton, James F. Hoyle, David W. Mascitelli, Donald E. Morse, Brian F. Murphy, Joan G. Rosen, William Schwab*

**Distinguished professors:** *Jane D. Eberwein, Robert T. Eberwein*

**Professors:** *Brian A. Connery, Edward Haworth Hoepfner, Jude V. Nixon*

**Associate professors:** *Robert F. Anderson, Natalie B. Cole, Kevin T. Grimm, Susan E. Hawkins, Niels Herold, Nancy Joseph, Bruce J. Mann, Kathleen A. Pfeiffer*

**Assistant professors:** *Gladys Cardiff, Annette M. Gilson, Jeffrey Insko, Christopher C. Warley*

**Special instructors:** *Linda McCloskey, Jimmy T. McClure, Rachel Smydra*

**Lecturers:** *Winniefred Anthonio, Maureen Dunphy, Colleen Potocki, Matthew D. Ferguson, Frances A. Kranz, Pamela T. Mitzelfeld, Stephen L. Rosenquist*

**Chief adviser:** *Susan E. Hawkins*

**STEP adviser:** *Nancy Joseph*

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, science 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 "Semester Course Descriptions," available in preregistration periods in the department office as well as through the department's web site. 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 secondary education major in English (STEP), a modified major in English with a linguistics concentration, as well as 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 courses (exclusive of composition courses used to satisfy the writing proficiency requirement), distributed as follows:

1. Eight credits in British literary history selected from ENG 354, 355, 357, 358, 370, 371; or four credits from this group and 4 credits from ENG 311, 315, 316, 369
2. Four credits in American literature selected from ENG 317, 318, 319, 320
3. Four credits in a 400-level seminar (excluding 410, 411 and 499)
4. At least 20 credits must be taken at the 300 level or above
5. At least 20 credits in English courses must be taken at Oakland.

In addition, the major requires an introductory two-semester sequence in a foreign language, or one semester of a foreign language at the 115 level or higher.

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. Only courses in which the student has earned a grade of at least 2.0 may be counted toward the English major or minor.

### **Departmental honors and scholarships**

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

The department awards three scholarships: the Doris J. Dressler Scholarship to an English major or humanities major (junior year or beyond) demonstrating academic promise and financial need; the Roger M. and Helen Kyes Scholarship to an outstanding major; and the Eva L. Otto Scholarship for an outstanding nontraditional student. 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 a minimum of 24 credits in English and American literature, distributed as follows:

1. Eight credits in British literary history selected from ENG 354, 355, 357, 358, 370, 371; or 4 credits from this group and 4 credits from ENG 311, 315, 316, 369
2. Four credits in American literature selected from ENG 317, 318, 319, 320
3. Four credits in a 400-level seminar (excluding 499)
4. Twenty credits in LIN or ALS courses, including: LIN 201, 303, 304, and either 403 or 404
5. ENG 376
6. At least 20 of the 44 combined credits must be at the 300 level or above.

## Requirements for the liberal arts minor in English

A minimum of 20 credits in English courses are required (exclusive of composition courses used to satisfy the writing proficiency requirement). At least two courses must be taken at the 300 or 400 level. Only one 100 level course will be accepted as part of the minor. Only 4 credits of 499 may apply toward 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.

## Requirements for the Secondary Teacher Education Program (STEP): English

The Secondary Teacher Education Program (STEP) at Oakland University is an extended program of study leading to certification. Generally, eligibility for admission to STEP requires a GPA of 3.00 in both the major and minor and an overall GPA of 2.80. However, because the number of places available in the program is limited, it is anticipated that successful applicants will have a GPA in English courses of at least 3.40 (including both OU and transfer credits). No single major or minor course grade may be below 2.0. Second undergraduate degree candidates completing a major and/or minors may be required to complete additional course work at Oakland University beyond the state minimums. Students in this program must complete the requirements for a B.A. degree in the College of Arts and Sciences and concurrently fulfill the requirements listed below:

Forty credits in English (at least 20 of which must be taken at Oakland)

1. Four credits in American ethnic literature selected from ENG 112, 341 or 342
2. ENG 215 Fundamentals of Grammar or ENG 376 History of the English Language
3. ENG 224 American Literature
4. ENG 241 British Literature
5. Eight credits in British literary history selected from ENG 354, 355, 356, 357, 358, 370, 371; or 4 credits from this group and four credits selected from ENG 311, 315, 316, 369 (ENG 315 Shakespeare is recommended.)
6. Four credits in American literature selected from ENG 317, 318, 319, 320
7. ENG 398 Approaches to Teaching Literature and Composition
8. ENG 380 Advanced Writing
9. Four credits in a 400-level seminar (excluding ENG 410, 411 and 499).

The following courses are also required:

1. ALS 176 The Humanity of Language
2. Four credits in world literature selected from ENG 100, 111, 312 or LIT 100, 181 or 182.
3. An introductory two-semester sequence in a foreign language, or one semester of a foreign language at the 115 level or higher.

A program in STEP must also include a 20-28 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300, SED 427, FE 345 and RDG 538. Extended study including SED 428, 455 and 501 is also required. Further details on program 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 English and the School of Education and Human Services advising office (363 Pawley Hall, 248-370-4182) or the School of Education and Human Services web site.

## Requirements for the secondary teaching minor in English

A minimum of 24 credits in English (at least 12 credits of which must be taken at Oakland) is required, distributed as follows:

1. Four credits in American ethnic literature selected from ENG 112, 341 or 342
2. ENG 215 Fundamentals of Grammar or ENG 376 History of the English Language
3. ENG 224 American Literature
4. ENG 241 British Literature
5. ENG 380 Advanced Writing
6. ENG 398 Approaches to Teaching Literature and Composition

Generally, a cumulative grade point average of 3.00 is required in courses included in the minor, with no single course grade below 2.0. Second undergraduate degree candidates completing the minor may be required to take additional courses at Oakland University beyond the stated minimums. Students must consult with the secondary education minor adviser in the 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*.

Courses on the 100 level are directed to students seeking nontechnical, liberally oriented courses to fulfill general education requirements or for use in minors and particular concentrations. Courses on the 200 level offer broad introductions to literary materials and approaches basic to the study of English. Reading is often extensive and the classes are conducted primarily through lecture. Courses on the 300 level offer more intensive investigations into particular areas of English studies. These courses, the core of the program for majors, are open to advanced students according to their special needs and their preparation in related disciplines. Courses on the 400 level apply theory and methods of literary history, criticism and research to writers and to problems presented by specific topics. They are designed for upperclass majors. Graduate courses on the 500 level are open to senior majors by permission of the instructor and the departmental chairperson.

## Course prerequisites

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

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

A survey acquainting the student with some of the great literature of the world. *Satisfies the university general education requirement in the literature knowledge exploration area.*

### ENG 105 Shakespeare (4)

A general introduction to representative dramatic works of Shakespeare. *Satisfies the university general education requirement in the literature knowledge exploration area.*

### ENG 111 Modern Literature (4)

General introduction to modern literature, which can include works written from the early twentieth century to the present, with some attention to literary form and to the way in which literature reflects culture. *Satisfies the university general education requirement in the literature knowledge exploration area.*

**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. *Satisfies the university general education requirement in the literature knowledge exploration area. Satisfies the university general education requirement in U.S. diversity.*

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

Topics or problems selected by the instructor.

**ENG 210 Writing about Literature (4)**

Designed to help students develop the skills required for the close reading and written analysis of literary texts.

Prerequisite: RHT 160.

**ENG 215 Fundamentals of Grammar (4)**

A thorough introduction to basic grammatical forms and structures, drawing upon a variety of approaches and models.

Prerequisite: RHT 160 or equivalent.

**ENG 224 American Literature (4)**

Introduction to literary analysis and appreciation through readings in the American literary tradition. Emphasis on such authors as Hawthorne, Melville, Dickinson and James. *Satisfies the university general education requirement in the literature knowledge exploration area.*

**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. *Satisfies the university general education requirement in the literature knowledge exploration area.*

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

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

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

Special problems or topics selected by the instructor.

**ENG 301 Poetry (4)**

The major forms of poetic expression studied from generic and historical points of view.

**ENG 302 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. *Satisfies the university general education requirement in the literature knowledge exploration area for 2005-2006.*

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. *Satisfies the university general education requirement in the literature knowledge exploration area for 2005-2006. 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. *Satisfies the university general education requirement in the literature knowledge exploration area for 2005-2006.*  
Prerequisite: Junior standing.

**ENG 307 Modern Drama (4)**

Studies in English, American and Continental drama since Ibsen.

**ENG 308 Playwriting (4)**

Creative writing for the theatre, emphasizing fundamentals of scene, character, and dialogue development. Identical with THA 340.  
Prerequisite: RHT 160, English and theatre majors (or minors) or permission of instructor.

**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 the literature knowledge exploration area for 2005-2006.*  
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 320 American Literature 1920-1950 (4)**

Studies in American literature of the modern period.

**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 Fiction (4)**

Studies in fiction of the first half of the 20th century. This course may emphasize British, American or international fiction in any given semester.

**ENG 333 Modern Poetry (4)**

Studies in poetry since the beginning of the 20th century. Course may emphasize American or British poetry or discuss international currents in modern poetry.

**ENG 340      Studies in Contemporary Literature (4)**

Literature since World War II. This course may emphasize a particular theme, genre or nationality.

**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. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**ENG 342      African American Literature (4)**

Study of African American literary history, including the evolution of form through slave narrative, sentimental fiction, political protest, to contemporary writing; authors may include Douglass, Jacobs, Chesnut, Du Bois, Ellison, Petry and Morrison. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**ENG 350      Topics in Film (4)**

Topic or problem to be selected by the instructor. May be repeated under different subtitle.

**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 357      British Literature from the Victorian Period to the Early 20th Century (4)**

From the Victorians to the 1920s. Authors may include Bronte, Tennyson, Browning, Dickens, Eliot, Hardy, Arnold, Carlyle, Rossetti, Shaw, Lawrence, Yeats and Woolf.

**ENG 358      British and Postcolonial Literatures since 1900 (4)**

British and Anglophonic literature since 1900. Authors may include Joyce, Woolf, Eliot, Rhys, Beckett, Rao and Achebe.

**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 370      British Literature of the Restoration and 18th Century (4)**

Prose, poetry and drama from 1660 to the Romantic Revolutions. Consideration of such major authors as Dryden, Swift, Pope and Johnson.

**ENG 371      British Literature of the Romantic Period (4)**

Prose and poetry from the age of Austen, Blake, Wordsworth, Byron, Shelley and Keats.

**ENG 375      Studies in Modern Literature (4)**

Literature of the first half of the 20th century. This course may emphasize a particular theme, genre or nationality.

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

A detailed survey of the English language from its beginning to modern times. Identical with LIN 376.

**ENG 380      Advanced Writing (4)**

Emphasis on the advanced exploration and application of writing strategies for a variety of persuasive contexts.

**ENG 381      Science 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 386 Workshop in Creative Non-Fiction (4)**

Creative writing workshop, with emphasis on stories of real life, balancing artistry and accuracy. May include the personal essay, autobiography or travel literature.

**ENG 390 Literary Theory, Ancient to Early 20th Century (4)**

The development of literary theory, presented as a survey. Applications of theory in critical practice will be considered.

**ENG 391 Literary Theory, Early 20th Century 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 398 Approaches to Teaching Literature and Composition (4)**

Introduction to teaching literature and composition. Topics include the reading and writing processes, adolescent literature, media and the language arts, and spoken language. For students admitted to the secondary education program (STEP). To be taken in the winter semester prior to internship.

Prerequisite: Permission of instructor.

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

Advanced topics and problems selected by the instructor.

Prerequisite: Four courses in English or permission of instructor.

**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 subtitle.

Prerequisite: Four courses in English or permission of instructor.

**ENG 410 Advanced Workshop in Fiction (4)**

Creative writing workshop in fiction.

Prerequisite: ENG 383 and permission of instructor.

**ENG 411 Advanced Workshop in Poetry (4)**

Creative writing workshop in poetry.

Prerequisite: ENG 384 and permission of instructor.

**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 or permission of instructor.



**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 or permission of instructor.

**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.

Prerequisite: Four courses in English or permission of instructor.

**ENG 465 Shakespeare (4)**

Analysis of four or five of the plays.

Prerequisite: Four courses in English or permission of instructor.

**ENG 490 Studies in Literary Theory and Research (4)**

Designed to acquaint students with the application of tools, techniques, and materials of literary scholarship. Especially recommended for students who intend to pursue graduate studies in English.

Prerequisite: Four courses in English or permission of instructor.

**ENG 491 Internship (4)**

Practical experience in appropriate work position at an approved site, correlated with directed study assignments. In the semester prior to enrollment, the student will plan the internship in conjunction with the instructor and with the approval of the department chair. A final analytical paper will be required. May be repeated once in a different setting for elective credit only.

Prerequisites: 16 credits in English, of which at least 8 must be at the 300-400 level, and permission of the instructor and the department chair.

**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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378 O'DOWD HALL

(248) 370-3510  
Fax: (248) 370-3528

**Chairperson:** *Carl R. Osthaus*

**Professors emeriti:** *Charles W. Akers, V. John Barnard, Leonardas V. Gerulaitis, James D. Graham, Robert C. Howes, Roy A. Kotynek, W. Patrick Strauss, S. Bernard Thomas, Anne H. Tripp, Richard P. Tucker*

**Professors:** *Linda Benson, Ronald C. Finucane, Mary C. Karasch, Carl R. Osthaus*

**Associate professors:** *Sara E. Chapman, Daniel J. Clark, De Witt S. Dykes, Jr., Todd A. Estes, Karen A. J. Miller, Seán Farrell Moran*

**Assistant professors:** *Getnet Bekele, Derek K. Hastings, Don Matthews*

**Chief adviser:** *Ronald C. Finucane*

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 social studies and in the secondary teaching major and 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 28 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.
5. At least 20 credits in history courses must be taken at Oakland.

### **Secondary Teacher Education Program (STEP): History**

The Secondary Teacher Education Program (STEP) at Oakland University is an extended program of study leading to certification. Generally, eligibility for admission to the STEP requires a GPA of 3.00 in both the major and minor, and an overall GPA of 2.80. No single major or minor course grade may be below 2.0. Since admission to this program is highly competitive, not all of those who achieve these minimal GPA standards will be admitted. Second undergraduate major or degree candidates completing a major and/or minor may be required to complete additional coursework at Oakland University beyond the stated minimums. In any case, all history students interested in the STEP program should consult early and often with the history department's undergraduate adviser. Students in this program must complete the requirements for a B.A. degree in the College of Arts and Sciences and concurrently fulfill the requirements listed below:

1. A minimum of 44 credits including: HST 101, 102, 114, 115
2. At least 28; credits must be numbered 300 or above and must include:  
HST 300 (must be completed with a minimum grade of 3.0)  
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.
5. At least 20 credits in history courses must be taken at Oakland.
6. Concurrently fulfill the requirements listed below:  
Corequisite courses (24 credits) as follows (these courses, where appropriate, may also satisfy general education, college distribution, or history major distribution requirements):
  - a. PS 100 or HST 311
  - b. SOC 100 or PSY 100 or AN 102
  - c. ECN 150 or HST 302 or 304
  - d. WS 200 or HST 301, 322, 323, 339, 361, 362 or 375
  - e. Two of the following: IS 210, 220, 230, 240, 250 or 270

A program in STEP must also include a 20-28 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455 and SE 501 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 (363 Pawley Hall, 248-370-4182).

### **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, 248-370-3510).

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 is one scholarship, the George T. Matthews Scholarship, specifically for students majoring in history. Junior and senior history majors are eligible for a Holzbock Scholarship. There are five Holzbock scholarships of \$2,500 each made annually to students in the humanities. Information about the Matthews and Holzbock scholarships 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. At least 12 credits in history courses must be taken at Oakland.

### **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. In addition SED 427, Methods of Teaching Secondary Students, is required. Generally, a cumulative grade point average of 3.00 is required in courses included in the minor, with no single course grade below 2.0. At least 12 credits in history courses must be taken at Oakland. Second undergraduate degree candidates completing the minor may be required to take additional courses at Oakland University beyond the stated minimums. Students must consult with the secondary education minor adviser in the 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*.

### **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 (e.g., RHT 160) 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. *Satisfies the university general education requirement in the Western civilization knowledge exploration area.*

#### **HST 102 Introduction to European History since 1715 (4)**

Surveys the history of Europe from the Enlightenment to the present. *Satisfies the university general education requirement in the Western civilization knowledge exploration area.*

**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. *Satisfies the university general education requirement in the Western civilization knowledge exploration area. Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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. *Satisfies the university general education requirement in the Western civilization knowledge exploration area. Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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.

**HST 261 Introduction to Latin American History I (4)**

A survey of pre-Colombian 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. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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, and history major 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. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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 U.S. Colonial History (4)**

Examines the major themes and developments of the Colonial period with an emphasis on regional settlement and development patterns, political and social growth, and the maturation of the colonies.

**HST 308      The American Revolution (4)**

Considers the broad social and political movements leading to the Revolution as well as the many different meanings and interpretations of the event, and the immediate and long-term effects of legacies of the Revolution.

**HST 309      The U.S. Early National Period, 1787-1815 (4)**

Examines the political and social development of the new nation from the constitution through the end of the War of 1812.

**HST 310      Jacksonian America (4)**

Examines the chief political, social, cultural, economic, and religious developments from the War of 1812 to the end of the Mexican War.

**HST 311      The Development of Political Practices in Early America (4)**

The development of politics and political culture in the U.S. from the Colonial period through the Age of Jackson. Emphasis will be placed on defining, recognizing and understanding political culture, and the variations in political development and practices by region and social class.

**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. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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 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. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**HST 323 The Civil Rights Movement in America (4)**

Surveys the system of racial segregation and discrimination established in the 19th century and the contribution of 20th century civil rights organizations to fight racial discrimination. World War II and the mass action movements of the 1950s and the 1960s will receive significant attention. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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, 300-1100 (4)**

Examines the foundations of medieval Europe, including the Roman, Germanic and Christian roots; Charlemagne's Europe; cultural developments and the Church; the first crusade.  
Prerequisite: HST 101 recommended.

**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 328 Medieval Europe 1100-1500 (4)**

Examines Medieval Europe at the height of its socio-cultural development; the papacy; royal and imperial administration; the disturbed final centuries of war and plague.  
Prerequisite: HST 101 recommended.

**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 Britain, 1815-1911 (4)**

A consideration of the political, cultural, social and intellectual life of the British peoples from the passage of the Corn Laws to the Parliament Act of 1911.

**HST 335 Britain 1911 to Present (4)**

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

**HST 337 Ireland, Prehistory to 1691 (4)**

Ireland from its prehistory until the Battle of the Boyne emphasizing the development of indigenous Irish culture and institutions. Topics include the Celts and Gaelic society, early Irish Christianity, the Vikings, Anglo-Norman intervention, Gaelic resurgence and the Geraldines, the Tudor conquest, Ulster plantation and Jacobite resistance.

**HST 338 Ireland, 1691 to Present (4)**

Modern Ireland from the Williamite wars to contemporary Ireland. Emphasis on the question of Irish national identity. Topics include colonial Ireland, revolution and the union, Catholic emancipation, the Great Famine, nationalism and republicanism, 1916, forging the new state and society and the North.

**HST 339 Women in Early Modern Europe, 1500-1789 (4)**

Assesses women's contributions to the changes and events of early modern Europe, examines women in the private and public spheres, and explores the dynamic of gender in studying the impact of women on politics, the economy, literacy and culture, and religious practices and beliefs.  
Identical with WS 339.

**HST 340 Scotland: 1689 to Present (4)**

History of the Scottish nation from the revolution of 1689 to the present. Special attention will be given to the interaction of cultural, political and social developments, and the emergence of a self-conscious separate national identity.

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

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

**HST 342 Society and Culture in Early Modern Europe (4)**

The lives of common men and women in early modern Europe. Topics include family and work, sexuality and gender, religion and folklore, riots and rebellion, printing and literacy.

**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 permission of instructor.

**HST 352 Nationalism in Modern Europe (4)**

Origins and development of nationalism in Europe from the eighteenth through the twentieth century. Political formation of European nation-states, the varied cultural manifestations of nationalism, and the reawakening of European nationalism in the aftermath of the Cold War.



**HST 353      Nazi Germany: Society, Politics and Culture (4)**

Introduction to the Nazi regime in Germany. Special attention given to the origins and early years of the Nazi movement, as well as to the nature of German society, politics and culture during the Third Reich.

**HST 354      History of Modern Russia (4)**

The historical development of Russia from its roots to the present. Special emphasis will be placed on events after World War II and the perestroika.

**HST 355      Eastern European History (4)**

The historical development of the peoples and states of Eastern Europe and the Balkans from the Middle Ages to the present will be examined in broad outline.

**HST 356      The Modern Middle East (4)**

Covers the major themes in Middle East history since 1800 including Orientalism, imperialism, nationalism, liberal movements, gender relations, and the emergence of the Islamic movements.

**HST 357      The Arab-Israeli Conflict (4)**

Examines the origins and development of the Arab-Israeli conflict, the emergence of a peace process, and the collapse of that process, focusing primarily on the development of Israeli and Palestinian political identities and institutions.

**HST 358      The Cold War in the Middle East (4)**

Examines conflict and peace making in the Middle East in the context of the Cold War, especially decolonization, nationalism, and revolution as these issues were affected by U.S. - Soviet rivalry.

**HST 360      American Cultural Rebels (4)**

A history of twentieth-century cultural avant-gardism and its impact on American society. Emphasis on the Lyrical Left of the 1910s, the Lost Generation of the 1920s, and the more contemporary Beats and Hippies.

**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. Identical with WS 361. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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. Identical with WS 362. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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 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. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**HST 370      Origins of Modern Japan, 1568-1912 (4)**

Japan from the “late feudalism” of the Tokugawa period through the first phase of Western-style modernization in the Meiji period. Themes include the perfection and decay of the samurai state, the Meiji revolution, nationalism, imperialism and movements for social and political democracy.

**HST 371      Twentieth-Century Japan (4)**

Japan since the Meiji period: the Taisho democracy movement, the changing position of women, fascism and militarism, total war, the American occupation and the rise to economic superpower status.

**HST 372      The Political Economy of Japan (4)**

Japan’s economic development since 1600: merchant versus samurai, the opening to world trade, industrial revolution, the war economy, the “Japanese miracle,” and the ongoing aftermath of the stock-market collapse. Special attention to the subjective experiences of the men and women who built Japan’s unique economic achievements.

**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 China 1600-1900 (4)**

The history of women’s changing position in modern China, including a survey of women’s status in traditional Chinese society under the Qing (1644-1911), women as contributors to modernization in China during the revolutionary period (1912-1949), and their struggle for equality since 1949. Identical with WS 375.

**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      China and Inner Asia (4)**

China’s historical relations with Inner Asia: Chinese policy toward steppe empires north of the Great Wall including nomadic Xiongnu, Turks, early Tibetans, and Mongolians. Emergence of modern Inner Asian peoples such as the Uyghurs, Kazaks, and Manchus, and the role of Inner Asia in shaping modern China.

**HST 380      Technology and Culture (4)**

Explores the history and relationship between technology and artistic creativity. Key themes include interaction of travel and landscape, relationship between aircraft and modern art, and the representation of technology in film.

**HST 382      History of Transportation Since 1800 (4)**

Explores the history of transportation in the United States and Europe in the 19th and 20th centuries. Key themes include the geographical unification of the United States with the railroads, the demise of public transportation, and the benefits and problems of our current car culture. No engineering knowledge necessary.

**HST 383      Information Technologies from 1500 (4)**

Topics include printing with moveable types, telegraphy, telephones, sound recording, and the Internet. Emphasis is on the social context and meaning of these communication devices. No engineering knowledge necessary.

**HST 385 Ancient Egypt and Africa (4)**

A cultural history of ancient African civilizations, focusing primarily on Egyptian national culture from its beginnings (c. 3100 B.C.E.) until the Islamic Age (c. 640). Introduces ancient arts and religions from Kush, Ethiopia, Carthage and Roman Africa, culminating in the contributions that Africans like St. Augustine made to the growth of early Christianity.

**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 African Cultural History (4)**

A cultural history of medieval and early modern Africa (c. 640-1900), beginning with such Islamic civilizations as Egypt and Mali. Explores how indigenous cultural traditions in such nations as Mali, Benin and Asante (Ashanti) guided the historic development of West African national cultures. Includes historic cultures from East and Central Africa.

**HST 390 Selected Topics in History (4)**

For majors and non-majors. Topics vary from year to year. May be repeated for additional credit.

**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 392 Working Detroit (4)**

Explores the history of 20th-century Detroit from the perspectives of its workers and unions. Key themes include immigration and ethnic diversity, the rise of mass production, the union movement, race relations, gender and the labor force, the postwar boom, and de-industrialization.

**HST 393 Oral History (4)**

Explores the complexities of a methodology widely used in historical research: interviewing people to learn about the past. Students will design their own oral history projects and conduct their own interviews.

**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: Junior/senior standing. 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 Cross-Cultural 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

221 VARNER HALL

(248) 370-2154  
Fax: (248) 370-4280

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

**International Studies Executive Committee:** *Bonnie F. Abiko (Art and History), Peter J. Bertocci (Sociology and Anthropology), Carlo Coppola (Modern Languages and Literatures), Vincent B. Khaboya (Political Science), Paul J. Kubicek (Political Science), Estela Moreno-Mazzoli (Modern Languages and Literatures), Richard B. Stamps (Sociology and Anthropology)*

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. A GPA of 3.60 or higher in courses credited to the major is required. Because basic language courses at the 100 and 200 level are not counted toward the total number of credits for the major, such courses may not be figured into the GPA for departmental honors. Qualified students may apply for honors at the start of the semester in which they will graduate. For more specific information, students should contact Center for International Programs (221 Varner Hall, 248-370-2154).

## 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:** *Getnet Bekele (History), De Witt S. Dykes, Jr. (History), Mary C. Karasch (History)*

Course requirements for the major in African and African-American studies include IS 230 and HST 292 plus 20 additional credits drawn from the following list of courses: AH 305, 352; ENG 342; HST 323, 362, 366, 385, 386, 387, 388; IS 380, 384; MUS 336, 338; PS 203, 333, and SOC/AN 331. The additional 12 credits for the complementary area of study may be taken in either Latin American or Islamic civilization. The appropriate language is either French or Spanish. Students may also submit three years of transferred course work or equivalent proficiency in an African language or in Arabic.

## East Asian studies, B.A. program

**Coordinator:** *Richard B. Stamps (Sociology and Anthropology)*

**Faculty:** *Bonnie F. Abiko (Art and Art History), Linda Benson (History), Seigo Nakao (Modern Languages and Literatures)*

Course requirements for the major in Chinese studies include IS 210 plus 24 additional credits drawn from the following list of courses: AH 104, 304; AN 362; HST 373, 374, 375, 376, 377; IS 381; LIT 100; PHL 350, and PS 377. The additional 12 credits for the complementary area of study may be taken in either Japanese or South Asian studies. The appropriate language is Chinese.

As Chinese is currently offered only at the 100 and 200 level at Oakland University, students in the East Asian Studies-Chinese major may study one year of Japanese to fulfill their third year language requirement. Transfer credits at the third year level in Chinese may also be used to fulfill this requirement. The third year Chinese requirement may also be fulfilled by taking ML 390 at the Foreign Affairs College in Beijing. The Center for International Programs periodically sponsors summer study tours to China.

Course requirements for the major in Japanese studies include IS 220 plus 24 credits drawn from the following list of courses: AH 104, 301; HST 370, 371, 372, 375; IS 361-362 or IS 365-366, 381; LIT 100, and PHL 350. The additional 12 credits for the complementary area of study may be taken in either 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, and the Japan Center for Michigan Universities, Hikone, Shiga, Japan. See *Study Abroad Opportunities*.

## South Asian studies, B.A. program

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

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

Course requirements for the major in South Asian studies include IS 240 plus 24 additional credits drawn from the following courses: AH 104, 302, 310; AN 361; HST 377, 381; IS 382; LIT 100; PHL 350, 352, and PS 334. The appropriate language is Hindi-Urdu. The additional 12 credits for the complementary area may be taken in Chinese, Japanese or Islamic studies.

## Slavic studies, B.A. program

**Coordinator:** *Paul J. Kubicek (Political Science)*

Course requirements for the major in Slavic studies include IS 260 plus an additional 24 credits drawn from the following courses: HST 354, 355, 356, 357, 358; IS 383; PS 337 and 377. The appropriate language is Russian. The additional 12 credits for the complementary area may be taken in Chinese, Japanese or Islamic studies.

## Latin American studies, B.A. program

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

**Faculty:** *Mary C. Karasch (History)*

Course requirements for the major in Latin American studies include IS 250 plus 24 additional credits drawn from the following courses: AH 309; AN 370, 371, 372; HST 261, 262, 363, 366, 367; IS 385, and PS 335. The 12 credits for the complementary area must be taken in African and African-American studies. The appropriate language is Spanish.

## Other course work for the liberal arts majors in international studies, B.A. programs

Provided that the specific course topic to be studied in any given semester is consistent with their chosen major, students may also offer the following courses for major credit: AH 490; IS 300, 390, 490; LIT 251 and 375. To be sure that course work in any of these courses will be counted toward their major, students must obtain the approval of the director or faculty adviser in the Center for International Programs before enrolling in them. Finally, all course work taken in the relevant language at the 300 level or above will count toward fulfillment of major requirements.

## 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: Seigo Nakao, Department of Modern Languages and Literatures, 403 Wilson Hall, (248) 370-2066 or messages at (248) 370-2154.

*Japan Center for Michigan Universities, Hikone, Shiga, Japan.* Two-semester program. No language proficiency required. Courses taught in English. Housing in Center's dormitory. Coordinator: Seigo Nakao, Department of Modern Languages and Literatures, 403 Wilson Hall, (248) 370-2066.

*Vienna Study Abroad Program.* One-semester and two-semester program. No language proficiency required. Courses taught in English. Housing with Viennese family. Director of International Education, Margaret Pigott, 520 O'Dowd Hall or 322 Wilson Hall, (248) 370-4131 or messages at (248) 370-5112.

*Macerata and Siena, Italy, Study Abroad Program.* One-semester and two-semester programs. No language proficiency required. Courses taught in English. Housing with Italian family. Director of International Education, Margaret Pigott, 520 O'Dowd Hall or 322 Wilson Hall, (248) 370-4131 or messages at (248) 370-5112.

*Segovia, Spain, Study Abroad Program.* Fall, winter, or summer program. Two years of college-level Spanish required. Courses taught in Spanish. Housing with Spanish family. Director of International Education, Margaret Pigott, 520 O'Dowd Hall or 322 Wilson Hall, (248) 370-4131 or messages at (248) 370-5112.

*Student Exchange Program, University of Orléans, Orléans, France.* One-semester or two-semester program. Two 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: Stacey L. Hahn, Department of Modern Languages and Literatures, 419 Wilson Hall, (248) 370-2062 or messages at 370-2060. Offered in cooperation with the Department of Modern Languages and Literatures.

*Student Exchange Program, University of Oldenburg, Oldenburg, Germany.* One-semester or two-semester program. Two years of college-level German required. Courses taught in German. Housing in university dormitory, shared flat with other students, or room in private house near University Buddy Program with German students. Unpaid internships made available within the University of Oldenburg. Coordinators: Barbara Mabee and Christopher Clason, Department of Modern Languages and Literatures, 418 Wilson, (248) 370-2099 or messages at 370-2060.

*Chinese Language and Culture Spring Immersion Program at the Foreign Affairs College, Beijing.* Intensive 6-week language and culture study in May and June. One year of university-level Chinese recommended. Courses taught in Chinese. Culmination of program is a one-week tour of historic sites in northern and Southern China. Housing in college's international guest house/dormitory on campus. Coordinators: Barbara Mabee, Department of Modern Languages and Literatures, 418 Wilson Hall, (248) 370-2099 and Richard Stamps, Department of Sociology and Anthropology, 518 Varner Hall, (248) 370-2425.

*British Studies at Corpus Christi College, Oxford University, Oxford, England.* Two three-week summer sessions. No language proficiency required. Courses taught in English. Housing in college's private rooms. Director of International Education: Margaret B. Pigott, 520 O'Dowd Hall or 322 Wilson Hall, (248) 370-4131 or messages at (248) 370-5112.

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 200      **Global Human Systems (4)**

Provides an introductory survey of the worldwide distribution, variation and interconnections of cultural, economic and political systems. Basic concepts in the field of human geography and other social sciences, as relevant, will also be introduced. *Satisfies the university general education requirement in the global perspective knowledge exploration area.* Identical with AN 200 and GEO 200.

### IS 210      **Introduction to China (4)**

An interdisciplinary study of the peoples of China and their traditional and modern civilizations. *Satisfies the university general education requirement in the global perspective knowledge exploration area.* Identical with GEO 210.



**IS 220 Introduction to Japan (4)**

An interdisciplinary study of the peoples of Japan and their traditional and modern civilizations. *Satisfies the university general education requirement in the global perspective knowledge exploration area.* Identical with GEO 220.

**IS 230 Introduction to Africa (4)**

An interdisciplinary study of the peoples of Africa and their traditional and modern civilizations. *Satisfies the university general education requirement in the global perspective knowledge exploration area.* Identical with GEO 230.

**IS 240 Introduction to India (4)**

An interdisciplinary study of the peoples of India and their traditional and modern civilizations. *Satisfies the university general education requirement in the global perspective knowledge exploration area.*

**IS 250 Introduction to Latin America (4)**

An interdisciplinary study of the peoples of Latin America and their traditional and modern civilizations. *Satisfies the university general education requirement in the global perspective knowledge exploration area.* 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. *Satisfies the university general education requirement in the global perspective knowledge exploration area.*

**IS 270 Introduction to the Middle East (4)**

An interdisciplinary study of the peoples of the Middle East and their traditional and modern civilizations. *Satisfies the university general education requirement in the global perspective knowledge exploration area.* 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 361-362 Japan Exchange Program I (16-18 each)**

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 363-364 Japan Exchange Program II (16-18 each)**

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.

Second year.

**IS 365-366 Japan Program: Shiga I (4-18 each)**

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 367-368 Japan Program: Shiga II (4-18 each)**

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.

Second year.

**IS 370 France Exchange Program: Language I (4)**

Course is taught at the University of Orléans in France and includes the study of French grammar. French is the language of instruction. Fall semester.

Prerequisite: Permission of program coordinator.

**IS 371 France Exchange Program: Literature I (4)**

Course is taught at the University of Orléans in France and includes the study of French literature. French is the language of instruction. Fall semester.

Prerequisite: Permission of program coordinator.

**IS 372 France Exchange Program: Conversation, Comprehension, Writing I (4)**

Course is taught at the University of Orléans in France and includes French conversation, comprehension and writing. French is the language of instruction. Fall semester.

Prerequisite: Permission of program coordinator.

**IS 373 France Exchange Program: Civilization I (4)**

Course is taught at the University of Orléans in France and includes French history, geography and contemporary civilization. French is the language of instruction. Fall semester.

Prerequisite: Permission of program coordinator.

**IS 470 France Exchange Program: Language II (4)**

Course is taught at the University of Orléans in France and includes the study of French grammar. French is the language of instruction. Winter semester.

Prerequisite: Permission of program coordinator.

**IS 471 France Exchange Program: Literature II (4)**

Course is taught at the University of Orléans in France and includes the study of French literature. French is the language of instruction. Winter semester.

Prerequisite: Permission of program coordinator.

**IS 472 France Exchange Program: Conversation, Comprehension, Writing II (4)**

Course is taught at the University of Orléans in France and includes the study of French conversation, comprehension and writing. French is the language of instruction. Winter semester.

Prerequisite: Permission of program coordinator.

**IS 473 France Exchange Program: Civilization II (4)**

Course is taught at the University of Orléans in France and includes the study of French history, geography and contemporary civilization. French is the language of instruction. Winter semester.

Prerequisite: Permission of program coordinator.

**IS 380-385 Seminars (4)**

Selected topics dealing with a specified area, to supplement departmental area courses. Students enroll under the number corresponding to a specific area. May be repeated once for a total of 8 credits.

Prerequisite: Senior standing and permission of instructor.

**IS 380 Seminar in 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

320 O'DOWD HALL

(248) 370-2175  
Fax: (248) 370-3144

**Chairperson:** *Peter J. Binkert*

**Professors emeriti:** *Daniel H. Fullmer, William Schwab*

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

**Associate professors:** *Madelyn J. Kissock, Michael B. Smith, Samuel Rosenthal*

**Assistant professor:** *Rose Letsholo*

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

**Special instructor:** *Rebecca Gaydos*

**Chief adviser:** *Samuel Rosenthal*

It is hard to imagine spending one waking moment without language. Whether we are alone or among other people, whether we dream or daydream, whether we write poetry, follow a recipe, cheer for the home team, speak or sing, language is involved. All normal children acquire a native language, no matter where they are born, what the language is or what their home life is like. People who are deaf have language; so do those who are blind, mute, completely paralyzed, mentally retarded or emotionally disturbed. Language can be disrupted by injury or disease, processed by machines, altered for special occasions and exploited for ulterior motives. Despite this extraordinary presence, versatility and variability, every human language, whether Old English or Modern Japanese, shares universal features. Linguistics is the discipline that studies such matters concerning language.

Because language is so pervasive and so peculiarly human, students of linguistics find careers in many different areas. Some, such as teachers, computer scientists and speech therapists, use linguistics directly; others, such as market analysts, editors and advertising executives, use it indirectly. Still others use their undergraduate major in linguistics as a springboard to careers in law, education, business, artificial intelligence and international relations, as well as graduate study in linguistics and other fields.

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

To earn a liberal arts major in linguistics, students must complete the following program of study. Credit toward the major will only be allowed for courses completed with a grade of 2.0 or higher. A cumulative grade point average (GPA) of 3.00 is required for courses included in the major:

1. A minimum of 28 credits including:
  - a. LIN 201
  - b. LIN 302 or 307
  - c. LIN 303 and 304
  - d. LIN 403 or 404
  - e. Eight credits of 300-400 level ALS or LIN courses
2. At least 12 additional credits from LIN or ALS courses or from ENG 215; MTH 302, 415, 475; FRH 215, 312, 314; SPN 313, 314; PHL 107, 329, 333, 370, 437; or PSY 316.

3. Either (a) two years of foreign language study, or (b) one year of foreign language study and LIN 409. In either case, first year proficiency in at least one foreign language is required, and can be demonstrated by satisfactory completion of a foreign language course at the 115 level.
4. Only two ALS or LIN courses at the 100 and 200 level will be accepted for credit toward the major.

### **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 201, 303, 304 and either 403 or 404.
2. A minimum of 20 credits in CSE courses as follows: 8 credits from CSE 125, and 130 or 141; 12 credits from CSE 220, 247, 248, 251, 230. At least 12 of these credits must be taken at Oakland University. An average grade of at least 2.0 is required in courses counted toward this minor. 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 seven required LIN and ALS courses and the three additional courses listed above. 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**

To earn a liberal arts minor in linguistics, students must complete a minimum of 20 credits to include:

1. LIN 201, 303, 304 and either 403 or 404.
2. At least 4 credits from 300-400 level LIN or ALS courses.
3. Credit toward the minor will only be allowed for courses completed with a grade of 2.0. A cumulative grade point average (GPA) of 3.00 is required for courses included in the minor.

### **Requirements for a modified major with a concentration in linguistics**

Students may elect a modified major in anthropology, communication, English, philosophy, psychology, or sociology, with a concentration in linguistics.

The core in linguistics requires 16 credits including LIN 201, 303, 304 and either 403 or 404. An additional 4 credits in linguistics courses for the specific concentrations are ALS 374 or 375 (anthropology), LIN 305 (communication), LIN 376 (English), LIN 307 or 475 (philosophy), ALS 335 (psychology), and ALS 376 (sociology).

For requirements in the modified majors, students should consult the appropriate department.

## Certificate in teaching English as a Second Language

Students may earn a certificate in teaching English as a second language (TESL) by completing the following courses: LIN 201, ALS 418 and 419. In all cases a student must complete 12 credits in linguistics courses at OU and must satisfy the eligibility requirement described in Practicum Eligibility to obtain the certificate. Students interested in this certificate should contact an adviser in the Department of Linguistics.

## Practicum Eligibility

Eligibility for the Practicum (ALS 419) requires completion of ALS 418 with a grade of 3.0 or higher. Non-native speaker of English, in addition, must satisfactorily complete an oral and written examination of English.

## 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 the foreign language and culture knowledge exploration area.*

#### ALS 317      **Models of Second Language Acquisition (4)**

Development of second language ability among children and adults. Topics will include first language acquisition theory, the relationship of second language acquisition to linguistic theory, and will review and evaluate competing models of second language development.

#### ALS 320      **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.

#### 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.

#### 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. *Satisfies the university general education requirement for a writing intensive course in the major.*

Prerequisite: Completion of the university writing foundation requirement.

#### 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.

#### 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.

**ALS 374 Cross-Cultural Communication (4)**

A theoretical and practical examination of the role of language and nonverbal modes in intercultural communication. Problems and strategies for developing awareness of and operational skills in intercultural processes. Identical with AN 374. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**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. Identical with AN 375.

**ALS 376 Language and Society (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.

**ALS 418 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 201.

**ALS 419 Practicum (4)**

Internship in an assigned ESL program under the guidance of a university instructor. Offered fall, winter and spring. Availability in spring is limited. For eligibility requirement, see Practicum Eligibility. May be repeated for up to 8 credits.  
Prerequisite: ALS 418 and permission of instructor.

**ALS 438 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: ALS 317 or ALS 418 or permission of instructor.

**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 180 Linguistic Analysis (4)**

Introduction to the analytical and theoretical concepts used by linguists to describe the structure of human language. *Satisfies the university general education requirement in the formal reasoning knowledge foundation area.*

**LIN 181 Introduction to the Development of the English Language (4)**

An introduction to the development of the English language from its Anglo-Saxon beginnings to the present, including the development of the sounds, words, sentences and meanings of English. Discussion of the spread and dominance of English as a world language and the many varieties of English will also be included. *Satisfies the university general education requirement in foreign language and culture knowledge exploration area.*

**LIN 182 Language and the Brain (4)**

Overview of the anatomy and physiology of language in the brain, including discussion of human characteristics that make language possible, human problems with language that result from various pathologies, and the mind-brain relationship. Consideration of the nature of language as a specifically human phenomenon. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area for 2005-2006.*

**LIN 183 Formal Rules of Sound Structure (4)**

Introduction to the description, organization and formal analysis of data dealing with the sound structure of human language. *Satisfies the university general education requirement in the formal reasoning knowledge foundation area.*

**LIN 184      Formal Rules of Phrase Structure (4)**

Introduction to the description, organization and formal analysis of data dealing with the phrase structure of human language. *Satisfies the university general education requirement in the formal reasoning knowledge foundation area.*

**LIN 201      Introduction to Linguistics (4)**

Introduction to the modern study of human language. Emphasis on the analysis of sound and structure, variation and change, and linguistic universals.

**LIN 207      Meaning in Language (4)**

Broad examination of how humans use language to convey meanings of various kinds, including literal, non-literal, and interpersonal meaning, and ways in which language reflects how humans think. Identical with COM 207. *Satisfies the university general education requirement in the foreign language and culture knowledge exploration area for 2005-2006.*

**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: LIN 201.

**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 201.

**LIN 303      Introduction to Phonology (4)**

Fundamentals of phonological analysis using data from a variety of languages.  
Prerequisite: LIN 201.

**LIN 304      Introduction to Syntax (4)**

Fundamentals of syntactic analysis using data from a variety of languages.  
Prerequisite: LIN 201.

**LIN 305      Phonetic Theory (4)**

Introduction to articulatory and acoustic descriptions of spoken language, and training in the recognition of production of sounds found in languages other than English.  
Prerequisite: LIN 201.

**LIN 307      Introduction to Semantics (4)**

Fundamentals of semantic analysis using data from a variety of languages.  
Prerequisite: LIN 201.

**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.  
Prerequisite: LIN 201 and CSE 130.

**LIN 357      Cognitive Linguistics (4)**

A cognitive/functional approach to grammatical theory focusing on the relation between language and cognition in the study of semantic, lexical and grammatical structure.  
Prerequisite: LIN 201 or permission of instructor.

**LIN 376      History of the English Language (4)**

Identical with ENG 376.  
Prerequisite: RHT 160.

**LIN 403      Phonological Theory (4)**

A presentation of theory and application of phonological analysis with emphasis on original work.  
Prerequisite: LIN 303 with a grade of 2.0 or higher.

**LIN 404      Syntactic Theory (4)**

Presentation of theory and application of syntactic analysis, with emphasis on original work.  
Prerequisite: LIN 304 with a grade of 2.0 or higher.

**LIN 407      Semantic Theory (4)**

Presentation of theory and application of semantic analysis with emphasis on original work.  
Prerequisite: LIN 307 with a grade of 2.0 or higher.

**LIN 408      History of Linguistic Theory (4)**

Study of the development of linguistic sciences from ancient grammatical explanation to the nineteenth century Indo-European scholars and twentieth century structuralism and transformational grammar.

Prerequisite: LIN 303 or 304.

**LIN 409      Studies in the Structure of a Language (4)**

Study of the structural aspects of an individual language to be determined by the instructor

Prerequisite: LIN 303 or 304.

**LIN 413      Advanced Phonology (4)**

Advanced course in phonology with emphasis on current issues in phonological theory.

Prerequisite: LIN 403.

**LIN 414      Advanced Syntax (4)**

Advanced course in syntax with emphasis on current issues in syntactic theory.

Prerequisite: LIN 404.

**LIN 417      Advanced Semantics (4)**

Advanced course in semantics with emphasis on current issues in semantic theory.

Prerequisite: LIN 407.

**LIN 475      Philosophy of Language (4)**

Identical with PHL 475.

Prerequisite: Junior standing, LIN 207 or one course in logic (PHL 107 strongly recommended).

**LIN 480      Seminar in Linguistics (4)**

Topics and problems selected by the instructor.

Prerequisite: LIN 201 and permission of the instructor.

**LIN 490      Independent Study (2 or 4)**

Special research projects in linguistics. Graded numerically or S/U by written agreement with linguistics faculty supervisor.

Prerequisite: LIN 201 and permission of the instructor.

**LATIN LANGUAGE AND ROMAN CULTURE****LTN 114-115    Introduction to Latin Language and Roman Culture (4 each)**

A two-semester sequence in the fundamentals of Latin language and classical Roman culture. A beginning course. LTN 114 must be taken first. *LTN 114 or 115 satisfies the university general education requirement in the foreign language and culture knowledge exploration area for 2005-2006.*

**English as a Second Language Center (ESL)**

The English as a Second Language Center offers classes in English as a Second Language (ESL) to help individuals improve English language skills (speaking, accent reduction, listening comprehension, reading, writing and vocabulary development). These courses are intended for university students, faculty and staff as well as international students, business personnel and other individuals who currently are not enrolled in a degree program at Oakland University. Students should consult the English as a Second Language Center for placement in appropriate classes.



## ENGLISH AS A SECOND LANGUAGE

These courses cannot be used to satisfy any portion of the university requirement in writing proficiency. No more than 16 credits in courses numbered 050-099 may count toward graduation requirements. Course numbers beginning with 05 are elementary level courses; 06, intermediate level; and 07, advanced level. Courses beginning with 08 have a business focus, and those beginning with 09 are for graduate students.

### ESL 050      **Listening and Speaking I (2 or 4)**

For non-native speakers only. To aid students in developing general listening and speaking skills through guided conversational practice. Students will be instructed in appropriate conversational techniques and will practice in group discussions. May be repeated for up to 12 credits.  
Prerequisite: Placement.

### ESL 051      **Reading and Vocabulary Development I (2 or 4)**

For non-native speakers only. Designed to help students develop general-purpose reading skills and strategies. Emphasis on vocabulary development to enhance reading facility. May be repeated for up to 12 credits.  
Prerequisite: Placement.

### ESL 052      **Writing and Sentence Structure for Academic Purposes I (2 or 4)**

For non-native speakers only. Designed for students of ESL to improve basic writing skills. To be taken before content courses. May be repeated for up to 12 credits.  
Prerequisite: Placement.

### ESL 055      **Introduction to American Culture and Customs (2 or 4)**

For non-native speakers only. Introduction to the environment and culture of the United States. Students will participate in reading, writing, listening and speaking tasks as they relate to practical cultural information.

### ESL 057      **Topics in English as a Second Language I (2 or 4)**

For non-native speakers only. Provides students with intensive study of particular topics in English as a Second language. Possible topics include vocabulary enhancement through reading and writing. May be repeated for up to 12 credits.  
Prerequisite: Placement.

### ESL 060      **Listening and Speaking II (2 or 4)**

For non-native speakers only. To help students develop the necessary listening and speaking skills for an academic environment. Focus will be on listening and speaking in a variety of class settings (lecture, seminar, discussion) and will include note-taking and subject comprehension. May be repeated for up to 12 credits.  
Prerequisite: ESL 050 with a grade of 2.5 or better or placement.

### ESL 061      **Reading and Vocabulary Development II (2 or 4)**

For non-native speakers only. Designed to help students develop reading skills and strategies for academic purposes. Emphasizes critical analysis, handling heavy reading loads and developing appropriate technical vocabularies. May be repeated for up to 12 credits.  
Prerequisite: ESL 051 with a grade of 2.5 or better or placement.

### ESL 062      **Writing and Sentence Structure for Academic Purposes II (2 or 4)**

For non-native speakers only. Improving basic knowledge of paragraph structure, linear sequencing and grammatical structures used in writing. Focus on organization and coherence, and practice in transitions, conciseness and patterns of organization. May be repeated for up to 12 credits.  
Prerequisite: ESL 052 with a grade of 2.5 or better or placement.

### ESL 070      **Listening and Speaking III (2 or 4)**

For non-native speakers only. Designed to help students reduce their accent for improved listener comprehension. Focus on accuracy in articulation at both the individual sound level and the sentential level. Will use interactive phonetics software to provide feedback. May be repeated for up to 12 credits.  
Prerequisite: ESL 060 with grade of 2.5 or better or placement.

**ESL 071      Reading and Vocabulary Development III (2 or 4)**

For non-native speakers only. Designed to help students refine reading skills and strategies for academic purposes. Emphasizes critical analysis and handling heavy reading loads and developing appropriate technical vocabularies. May be repeated for up to 12 credits.  
Prerequisite: ESL 061 with a grade of 2.5 or better of placement.

**ESL 072      Writing and Sentence Structure for Academic Purposes III (2 or 4)**

For non-native speakers only. Designed to help students improve their writing skills. Combines extensive practice in rhetorical techniques with a review of grammatical structures. May be taken concurrently with content courses with the approval of the content course department. May be repeated for up to 12 credits.  
Prerequisite: ESL 062 with a grade of 2.5 or better or placement.

**ESL 079      Independent Study in English as a Second Language (2 or 4)**

For non-native speakers only. Provides students with the opportunity to design a course of study that meets their particular English language needs. May be repeated for up to 12 credits.  
Prerequisite: Permission of instructor.

**ESL 080      Listening and Speaking in the Business Setting (2 or 4)**

For non-native speakers only. Designed for students who are either working in American business or plan to do so. Students will learn effective listening and speaking skills through oral presentations, accent reduction techniques and business jargon usage. May be repeated for up to 12 credits.  
Prerequisite: Placement.

**ESL 081      Reading and Vocabulary in the Business Setting (2 or 4)**

For non-native speakers only. Designed to improve students' reading skills for the business environment and to familiarize students with the American business culture. Emphasizes handling of specialized subject matter, critical analysis and business vocabulary. May be repeated for up to 12 credits.  
Prerequisite: ESL 051 or placement.

**ESL 082      Writing and Grammar in the Business Setting (2 or 4)**

For non-native speakers only. Designed to instruct students in the writing styles appropriate for American business. Students will learn to write typical business documents while emphasizing correct and appropriate grammar and vocabulary. May be repeated for up to 12 credits.  
Prerequisite: ESL 052 or placement.

**ESL 085      Cross-Cultural Communication in the Business Setting (2 or 4)**

For non-native speakers only. Focus on common business customs and practices in the United States. Students will participate in reading, listening and speaking tasks as they relate to the American business environment.

**ESL 087      Topics in the Business Setting (2 or 4)**

For non-native speakers only. For students who either are working in American business or plan to do so. A variety of professional and business topics will be offered which will match the student's current career or future career goals. May be repeated for up to 12 credits.  
Prerequisite: Placement.

**ESL 090      English for Instructional Purposes (4)**

For non-native speakers only. Designed for international students who will be teaching assistants. Emphasis on improving presentation skills, particularly pronunciation, and on addressing issues relevant to student-teacher interaction.  
Prerequisite: Graduate assistantship.

**ESL 092      Research Papers and Thesis Writing for Graduate Students (4)**

For non-native speakers only. Designed to aid graduate students with the tasks of writing substantive research papers or theses.  
Prerequisite: Graduate student standing.

# DEPARTMENT OF MATHEMATICS AND STATISTICS

368 SCIENCE AND ENGINEERING BUILDING  
<http://www.math.oakland.edu>

(248) 370-3430  
Fax: (248) 370-4184

**Chairperson:** *Louis J. Nachman*

**Professors emeriti:** *Harvey J. Arnold, Louis R. Bragg, John W. Dettman, George F. Feeman, William C. Hoffman, G. Philip Johnson, Donald G. Malm, James H. McKay*

**Professors:** *Kevin T. Andrews, Baruch Cahlon, Charles C. Cheng, J. Curtis Chipman, Jerrold W. Grossman, Ravindra Khattree, 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:** *Eddie Cheng, David J. Downing, Bo-nan Jiang, Robert H. Kushler, Theophilus Ogunyemi, Guohua (James) Pan, Hyungju (Alan) Park, Ananda Sen, Peter Shi, Anna Spagnuolo, Wen Zhang*

**Assistant professors:** *Serge Kruk, Laszlo Liptak, Xianggui Qu*

**Adjunct professors:** *Seth Bonder, Gary C. McDonald, Edward F. Moylan, Robert Smith*

**Associated faculty:** *Babette Benken (Teacher Development and Educational Studies)*

**Chief adviser:** *Jerrold W. Grossman*

The Department of Mathematics and Statistics 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, Master of Arts degree in mathematics and Doctor of Philosophy degree in applied mathematical sciences. 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 when planning their programs.

## Prerequisites and placement

Each student enrolling in a course offered by the Department of Mathematics and Statistics 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 placement.

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.

Placement into levels E, I or R, described below, is determined by the mathematics ACT score. Consult an adviser for details on this placement. Students whose mathematics ACT score is 24 or higher may take a calculus placement test at Orientation or the Department of Mathematics and Statistics to qualify for C level placement. The levels of placement are as follows:

E: The student is ready for MTH 011\* or 118.

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. MTH 266 is recommended.
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 APM 263, 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 130 or 141 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. 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 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. MTH 266 is recommended.
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 APM 263, 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 141 and 230 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. MTH 266 is recommended.
3. Complete CSE 141.
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 Mathematics and Statistics 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 Mathematics and Statistics. 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. Generally, eligibility into the STEP requires a GPA of 3.00 in both the major and minor, and an overall GPA of 2.80. No single major or minor course grade may be below 2.0. Second undergraduate degree candidates completing major and/or minors may be required to complete additional coursework at Oakland University beyond the stated minimums. Students must consult with the secondary education minor adviser in the department. Students in this program must complete the requirements for a B.A. or B.S. degree in mathematics and include APM 263, MTH 361 and 414 among the mathematics electives.

A program in STEP must also include a 20-28 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455 and SE 501 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 Mathematics and Statistics and the School of Education and Human Services advising office (363 Pawley Hall, 248-370-4182).

## 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. In addition, the department will normally present the Louis R. Bragg Graduating Senior Award each year to the most outstanding graduating mathematics or statistics major.

## 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, 266; 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 a secondary teaching minor in mathematics, students must take 28 credits consisting of MTH 154, 155, APM 263, STA 226, MTH 302, MTH 361, and SED 426. A cumulative grade point average of 3.00 is required in courses included in the minor, with no single course grade below 2.0. Second undergraduate degree candidates completing the minor may be required to take additional courses at Oakland University beyond the stated minimums. Students must consult with the secondary education minor adviser in the department.

## Requirements for the minor in computer science for mathematics or applied statistics 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, consisting of the following courses, with a grade of at least 2.0 in each: CSE 141, 171, 230 and any two CSE courses numbered 200 or above. At least 12 of these credits must be taken at Oakland University.

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 052 Intermediate Algebra Workshop (2)**

Students work cooperatively in groups to solve challenging problems based on the mathematics in MTH 012. The students will learn computational and theoretical mathematics taught through discovery rather than by lecture. Open only to students concurrently enrolled in MTH 012.

Corequisite: MTH 012.

#### **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 by the Student Success Services office only.

#### **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 the formal reasoning knowledge foundation area.*

#### **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 the formal reasoning knowledge foundation area.*

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 the formal reasoning knowledge foundation area.*

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 142 Precalculus Workshop (2)**

Students work cooperatively in groups to solve challenging problems based on the mathematics in MTH 141. The students will learn computational and theoretical mathematics taught through discovery rather than by lecture. Open only to students concurrently enrolled in MTH 141.

Corequisite: MTH 141.

**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 the formal reasoning knowledge foundation area.*  
Prerequisite: MTH 141 or placement.

**MTH 205 Special Topics (2 or 4)**

Intermediate study of a selected topic in mathematics. May be repeated for additional credit.

**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 266 Linear Algebra Laboratory (1)**

Computational investigation of selected topics in linear algebra.  
Corequisite: MTH 256.

**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 301 Putnam Seminar (0 or 2)**

This seminar meets one evening per week. Students solve and present solutions to challenging mathematical problems in preparation for the William Lowell Putnam Mathematical Competition, a national undergraduate mathematics competition. May be repeated three times for additional credit.  
Prerequisite: Permission of instructor.

**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 APM 263 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. 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.  
Corequisite: MTH 302 or permission of department.

**MTH 372 Number Theory with Cryptography (4)**

Structure of the integers, prime factorization, congruences, multiplicative functions, primitive roots and quadratic reciprocity, and selected applications including cryptography.  
Prerequisite: MTH 155.



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

Advanced study of a selected 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)**

Reading or 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 163 Mathematics for Information Technology (4)**

Systems of linear equations, matrix algebra and linear transformations. Elementary combinatorics, recursion and induction, sets and relations. Enrollment is limited to students in the Bachelor of Science in Information Technology or with permission of the department. APM 163 cannot be used to replace APM 263 or MTH 256.  
Prerequisite: MTH 122 with at least a 3.0 or MTH 154.

**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: MTH 254 and APM 257.

**APM 367 Design and Analysis of Algorithms (4)**

Computer algorithms, their design and analysis. Strategies for constructing algorithmic solutions, including divide-and-conquer, dynamic programming and greedy algorithms. Development of algorithms for parallel and distributed architectures. Computational complexity as it pertains to time and space is used to evaluate the algorithms. A general overview of complexity classes is given. Identical with CSE 361.

Prerequisite: CSE 231, APM 263.

**APM 381 Theory of Computation (4)**

Formal models of computation, including finite state automata, pushdown automata and Turing machines. Regular and context-free languages. The computational models are used to discuss computability issues. Identical with CSE 343.

Prerequisite: APM 367.

**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 instructor.

**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. 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. 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.

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 the formal reasoning knowledge foundation area.*

Prerequisite: MTH 012 or placement.

**STA 226 Applied Probability and Statistics (4)**

Introduction to probability and 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 the formal reasoning knowledge foundation area.*

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 fall.

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 winter.

Prerequisite: STA 226 or permission of instructor; STA 322 recommended.

**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 instructor.

**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.

Prerequisite: MTE 210.

**MTE 405 Special Topics (2 or 4)**

Study of mathematical topics particularly relevant for prospective teachers of elementary and middle school mathematics.

Prerequisite: MTE 211 or permission of instructor.

**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 education majors.

Prerequisite: MTE 211, STA 225 and IST 396.

# DEPARTMENT OF MODERN LANGUAGES AND LITERATURES

418 WILSON HALL

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**Chairperson:** *Barbara Mabee*

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

**Professors emeriti:** *John W. Barthel (German), Dolores Burdick (French), Renate Gerulaitis (German), Don R. Iodice (French), David Jaymes (French), Munibur Rahman (Hindi-Urdu), Robert E. Simmons (German), Amitendranath Tagore (Chinese), Carmen Urla (Spanish)*

**Professors:** *Carlo Coppola (Hindi-Urdu), Barbara Mabee (German)*

**Associate professors:** *Christopher Clason (German), Stacey L. Hahn (French), Frances Meuser (Spanish), Estela Moreno-Mazzoli (Spanish), Seigo Nakao (Japanese), Ronald F. Rapin (Spanish)*

**Assistant professors:** *Jennifer Law Sullivan (French), Ingrid Rieger (German), Aldona Bialowas Pobutsky (Spanish)*

**Visiting assistant professor:** *Caroline Jumel (French)*

**Special instructors:** *Dikka Berven (French), Julia Urla (Spanish)*

**Special lecturers:** *Theresa Arellano (Spanish), Linda Eghtedari (German), Fatima Ferreira (Spanish), Tara Gardner (Spanish), Khadija M. Harsolia (Spanish), Benjamin Hoffiz (Arabic), Christine Kuljurgis (German), Henryka Nemes (French), Mayra Schmalzried (Spanish), Annette Seranon (French), Mei-hsiao Tang (Chinese), Gheorghita Tres (Spanish), Holly Walker (Spanish)*

**Lecturers:** *Ukiko Aigbedo (Japanese), Luz Clarke (Spanish), Bernadette Donohue (French), Helen Kehr Alvarez (Spanish), Kuniko Okuda (Japanese), Shih-Chen Peng (Chinese and Japanese), Karl Rosvold (Japanese)*

**Chief adviser:** *Ronald Rapin*

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 an 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. Study of a foreign language and culture is an important asset for majors such as economics, general business, international

management, computer science, communication or journalism. Knowledge of a foreign language will also enhance the study of most majors and particularly political science, English, linguistics, art or music.

All language students may be asked to participate in departmental assessment activities.

## Placement examinations

The Department of Modern Languages and Literatures offers language testing in French, German and Spanish year round. Students can take the test using a personal computer or at computer labs in Kresge Library or in the Oakland Center or in the language lab in Wilson Hall (418 WH, 248-370-2060). The test can be accessed at <http://webcape.byuhtpsc.org?acct=oakland>. Password: Grizzlies1. Students who enter Oakland University with high school work in French, German, Japanese or Spanish must take the appropriate placement test during summer orientation. Students with previous language experience may not enroll in any 114 language courses without department permission. In case of questions concerning proper placement, students should consult with the department's advising office.

## 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 majors in language and literature: French, German and Spanish. The requirement for the major in French is a minimum of 32 credits at the 300 and 400 levels in language, culture and literature, and must include 314, 316, 318, 370, 380 and 408 plus two 400-level literature courses.

The requirement for the major in German is a minimum of 36 credits at the 300 and 400 levels in language, culture and literature, and must include 301, 316, 318, 371, 381, 408 and two 400-level literature courses.

The requirement for the major in Spanish is a minimum of 36 credits at the 300 and 400 levels in language, culture and literature, and must include 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; in German, GRM 440) and LIT 181 or 182. Students planning graduate work are strongly urged to study a second foreign language recommended by the department. At least 16 credits of those required for the major in any of the languages must be taken at Oakland University.

## Requirements for the liberal arts major in two modern languages, B.A. program

The requirement is a minimum of 18 credits (20 credits in German and Spanish) at the 300 and 400 levels in each of two languages. In French and Spanish, courses numbered 314, 316, 318, 355, 408 and 455 are required. German must include courses numbered 301, 316, 318, 355, 408 and 455.

Three collateral courses are required: LIN 201 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. At least 16 credits of those required for the major in two modern languages must be taken at Oakland University.

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

Students must complete a minimum of 28 credits in German beyond the second year and 24 credits in corequisite courses. The German courses required are GRM 301, 316, 318, 340, 355, 371 or 381, 408 and 440. Corequisite courses are AH 345, LIT 181 or 182; MUS 100 or 320; PS 373; and two from among the following: AH 334, 365; HST 327, 341, 343. At least 16 credits of those required for the major must be taken at Oakland University.

### **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 College of Arts and Sciences. The department offers the following liberal arts majors as part of the secondary teacher education program: French, German and Spanish. Generally, eligibility for admission to the STEP requires a GPA of 3.00 in both the major and minor, and an overall GPA of 2.80. No single major or minor course grade may be below 2.0. Second undergraduate degree candidates completing major and/or minors may be required to complete additional coursework at Oakland University beyond the stated minimums.

A program in STEP must also include a 20-28 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300, 427; FE 345 and RDG 538. Extended study including SED 428, 455 and SE 501 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 (363 Pawley Hall, 248-370-4182).

### **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 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 or Spanish is a minimum of 24 credits at the 300-400 level; in German it is 28 credits. 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 *Oakland University Graduate Catalog*.) At least 16 credits of those required for the modified liberal arts major in a modern language must be taken at Oakland University.

### **Requirements for the liberal arts major in Latin American language and civilization, B.A. program**

The requirements are a minimum of 20 credits in Spanish language courses numbered

SPN 314, 316, 318, 355, 380 and 408 and 20 credits in Latin American studies courses, including IS 250. At least 16 credits of the Spanish courses required for the major in Latin American language and civilization must be taken at Oakland University.

## Departmental honors and scholarships

Departmental honors may be awarded to graduating majors for outstanding achievements. In order to be eligible, students must submit for faculty consensus a writing project, usually either a research paper or a translation of superior quality completed in a 400-level course. In addition, students must maintain a grade point average in major courses of at least 3.60 and have taken at least 16 credits of the major at Oakland University. Qualified students who wish to be nominated should contact a full-time faculty member in their major at the start of the semester in which they will graduate.

There are two scholarships specifically for majors in the department. 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. The department also offers the Holzbock Humanities Scholarship (For information, see *General Information on Scholarships at the front of this catalog*).

## Study abroad

Students are encouraged to take advantage of opportunities to 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 or minoring in German wishing to participate in the exchange program with the University of Oldenburg in Germany should contact Professor Mabee or Professor Clason. Students may also participate in the Junior Year in Munich Program with Wayne State University.

Students majoring in Spanish may participate in Study Abroad Programs in Spain and Mexico, administered by the Director for International Education, 520 O'Dowd Hall. Students majoring in French may participate in the exchange program with the University of Orléans in France. Chinese language students interested in studying abroad should contact Barbara Mabee. Japanese language students interested in studying in Japan should contact Seigo Nakao. For further information on these programs, and on other study abroad opportunities, see the Center for International Programs portion of the catalog.

## 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 in the Department of Modern Languages and Literatures. Minors are available in French, German or Spanish language and literature. The requirement is a minimum of 20 credits beyond the 115 level, including 370 and 380 in French and Spanish; and 371 and 381 in German. At least 12 credits of those required for the minor in any of the languages must be taken at Oakland University.



## Requirements for the liberal arts minor in a modern language

Minors are available in French, German or Spanish language. The requirement is a minimum of 20 credits beyond the 115 level. French and Spanish must include courses numbered 314, 316, 318 and one of the following courses: 355, 408, 455 or 457 (in French, FRH 357). German requires courses numbered 301, 316, 318 and 4 credits from courses numbered 355, 408, 455 or 457. At least 12 credits of those required for the minor in any of the languages must be taken at Oakland University.

## Requirements for the liberal arts minor in German studies

Students must complete a minimum of 24 credits in German beyond first year. The courses required are GRM 301, 316, 318, 340, 408 and either 340 or 440. LIT 181 or 182 is also required. At least 12 credits of those required for the minor in German Studies must be taken at Oakland University.

## Requirements for the liberal arts minor in Japanese language and civilization

Students must complete 20 credits, including JPN 214, 215, 316/318, 355 and 351. IS 220 is a corequisite course for the minor. JPN 390 or 408 can qualify as an alternate to JPN 351. At least 12 credits of those required for the minor in Japanese language and civilization must be taken at Oakland University.

## Concentration in French studies

**Coordinator:** *Stacey Hahn*

The concentration in French studies provides an interdisciplinary understanding of French culture for students not majoring in French. Courses in French language, literature, civilization, art history and history are required. Students should refer to the *Other Academic Options* section for concentration requirements.

## Requirements for the secondary teaching minor in a modern language

The requirement for a secondary teaching minor in a modern language is a minimum of 20 credits in one language. Of these, 16 credits must be at the 300-400 level, including 314, 316 and 370 in French and Spanish and 301, 316, 318 and 371 in German. At least 12 credits of those required for the secondary teaching minor in a modern language must be taken at Oakland University. Generally, a cumulative grade point average of 3.00 is required in courses included in the minor, with no single course grade below 2.0. Second undergraduate degree candidates completing the minor may be required to take additional courses at Oakland University beyond the stated minimums. Students must consult with the secondary education minor adviser in the department. In addition SED 427, Methods of Teaching Secondary Students, is required.

## 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. At least 16 credits of those required for the elementary teaching major in a modern language must be taken at Oakland University. For complete details on other requirements, including courses in education, consult the *Department of Teacher Development and Educational Studies* section 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 and including GRM 301 in German. At least 12 credits of those required for the elementary teaching minor in a modern language must be taken at Oakland University. For complete details on other requirements, including courses in education, consult the *Department of Teacher Development and Educational Studies* section in the *School of Education and Human Services* portion of this catalog.

## Certificate in teaching English as a second language

Students may earn a certificate in teaching English as a second language (ESL) by completing the following courses: LIN 201, ALS 418, and ALS 419 or their equivalents. In any case, a student must complete 12 credits in linguistics courses at OU to obtain this certificate. Students interested in earning this certificate should contact an adviser in the Department of Linguistics.

## 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*.

### ARABIC LANGUAGE

#### ARB 114-115 Introduction to Arabic and Arabic Culture (4 each)

A two-semester sequence in the fundamentals of Arabic and Arabic culture. A beginning course. ARB 114 must be taken first. *ARB 114 or 115 satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

### 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 the foreign language and culture knowledge exploration area.*

#### 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. *CHE 214 or 215 satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

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 the foreign language and culture knowledge exploration area.*

#### FRH 214 Second Year French (4)

Continuation of the work started in FRH 114-115.

Prerequisite: One year of college French or equivalent. *Satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

**FRH 215 Intermediate French Grammar (4)**

Review of the essentials of French grammar. The course focuses on reading and composition. Conducted in French. *Satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

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 non-majors 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. *Satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

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 fall 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. Offered in alternate years.

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 314 is highly recommended.

**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 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 the foreign language and culture knowledge exploration area.*

**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. *GRM 214 or 215 satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*  
Prerequisite: One year of college German or equivalent.

**GRM 290 Directed Readings in German (2 or 4)**

A reading course for non-majors interested in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor.

Prerequisite: GRM 215.

**GRM 300 Germany Exchange: Oldenburg I (4-18)**

Course work is taken at the University of Oldenburg in Germany and includes German language study and additional appropriate course work with German as the language of instruction.

Prerequisite: Permission of program coordinator.

**GRM 301 Intermediate German (4)**

Review and refinement of German grammatical and literary skills with an emphasis on the development of cultural understandings. Offered fall semester. *Satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

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 winter semester.

Prerequisite: GRM 301 or equivalent.

**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 winter semester.

Prerequisite: GRM 301 or equivalent.

**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 fall 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 371 Introduction to the Study of German Literature (4)**

Introduction to literary genres and critical approaches, using selected works of German literature. Conducted in German.

Prerequisite: GRM 215.

**GRM 381 Great Works in German Literature (4)**

A historical survey. Conducted in German.

Prerequisite: GRM 215.

**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 400 Germany Exchange: Oldenburg II (4-18)**

Course work is taken at the University of Oldenburg in Germany and includes German language study and additional appropriate course work with German as the language of instruction.

Prerequisite: Permission of program coordinator.

**GRM 408 Advanced German Conversation (4)**

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

Prerequisite: GRM 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 371 and 381.

**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 371 and 381.

**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 371 and 381.

**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 371 and 381.

**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 winter 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 emphasis. 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 371 and 381.

**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 the foreign language and culture knowledge exploration area for 2005-2006.*

## 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 the foreign language and culture knowledge exploration area.*

### **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. *IT 214 or 215 satisfies the university general education requirement in the foreign language and culture knowledge exploration area for 2005-2006.*

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 the foreign language and culture knowledge exploration area.*

### **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. *JPN 214 or 215 satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

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 351 Japanese Civilization (4)**

Survey of Japanese culture and civilization from topical and historical perspectives. Diverse materials include newspaper articles, films and critical writings. Conducted both in English and Japanese.

Prerequisite: JPN 355.

### **JPN 355 Translation: Japanese (4)**

Translation from Japanese to English of a range of materials from commercial and technical to literary.

Prerequisite: JPN 215 or equivalent.

### **JPN 390 Directed Readings in Japanese (2 or 4)**

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

Prerequisite: Permission of instructor.

### **JPN 408 Advanced Japanese Conversation and Reading (4)**

Practice in speaking at an advanced level in recent historical, social, business and cultural topics featured in newspapers, internet articles, magazines, books, TV programs and films.

Prerequisite: JPN 316, 318 and 355.

### **JPN 457 Business Japanese (4)**

Introduction to the essential vocabulary and style specific to Japanese business as well as to the basic working of the Japanese economy. The course will broaden one's understanding of Japanese society through analysis of Japanese business practices. Conducted in Japanese.

Prerequisite: JPN 316 and 318 or equivalent.

## 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 the foreign language and culture knowledge exploration area for 2005-2006.*

### **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.

## SPANISH LANGUAGE AND LITERATURE

### **SPN 114-115 Introduction to Spanish and Hispanic Cultures (4 each)**

A two-semester sequence in the fundamentals of Spanish and Hispanic cultures. A beginning course. SPN 114 must be taken first. *SPN 114 or 115 satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

### **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. *SPN 214 or 215 satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

Prerequisite: One year of college Spanish or equivalent.

### **SPN 290 Directed Readings in Spanish (2 or 4)**

A reading course for non-majors 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, composition, and directed conversation. *Satisfies the university general education requirement in the foreign language and culture knowledge exploration area.*

Prerequisite: SPN 215.

### **SPN 316 Intermediate Spanish Conversation (2)**

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

Prerequisite: SPN 314.

### **SPN 318 Spanish Composition (2)**

Development of written composition skills including description, narration and exposition. Must be taken with SPN 316.

Prerequisite: SPN 314.

### **SPN 351 Spanish Civilization (4)**

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)**

Translation from Spanish to English of a variety of materials that may range from commercial, technical to literary texts. 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 and Composition (4)**  
Development of advanced writing and conversational skills with emphasis on appropriate vocabulary, style, grammar and syntax. Offered fall semester.  
Prerequisite: SPN 316 and 318.

**SPN 415**      **Medieval Literature of the Iberian Peninsula (4)**  
Socio-historic and literary analyses of the Mozarabic *jarchas*, several archetypes of the Iberian epic, Medieval *ejemplar*, parables, drama and poetry. Conducted in Spanish.  
Prerequisite: SPN 370 and 380.

**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 418**      **Cervantes (4)**  
Socio-historic and literary analyses of *Don Quijote de la Mancha* and other representative works of Miguel de Cervantes. 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)**  
Translation from English to Spanish using a variety of materials that may range from commercial, technical to literary texts. Offered fall semester.  
Prerequisite: SPN 314 and 318.

**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 emphasis.  
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 the literature knowledge exploration area.*

**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 the literature knowledge exploration area.*

**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 the literature knowledge exploration area.*

**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 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 the foreign language and culture knowledge exploration area for 2005-2006.*

Prerequisite: Permission of instructor.

**ML 211 Diction for Singers, First Semester (2)**

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 (2)**

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.

Prerequisite: Permission of instructor.

**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: Junior/senior standing. Minimum of 16 credits in the major including FRH or SPN 314, SPN 316 and SPN 318; or GRM 316 and GRM 318.

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

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

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

# DEPARTMENT OF MUSIC, THEATRE AND DANCE

211 VARNER HALL

(248) 370-2030

Fax: (248) 370-2041

**Chairperson:** *Jacqueline Wiggins*

**Professors emeriti:** *David Daniels, John Dovaras, Robert Facko, Carol Halsted, Marvin D. Holladay, Adeline G. Hirschfeld-Medalia*

**Professors:** *Laurie Eisenhower, Flavio Varani, John Paul White, Jacqueline Wiggins*

**Associate professors:** *Lettie Alston, Gregory Cunningham, David Kidger, Michael Gillespie, Kerro Knox, Kenneth Kroesche, Michael Mitchell, Gregory Patterson, Karen Sheridan*

**Assistant professors:** *Mariah Malec, Diane Helfers Petrella, Joseph Shively*

**Special instructors:** *Danny Jordan, Thomas Suda*

**Visiting instructor:** *Deborah Blair*

**Adjunct assistant professors:** *Janice Albright, Edith Diggory*

**Special lecturers:** *Patricia Gibbons, Lois Kaarre, Leslie Littell, Roberta Lucas, S. Alex Ruthman, Debra Siegel, Mark Stone, Phyllis White*

**Lecturers:** *Julia Beeding, Kristen Berger, Barbara Bland, Jacqueline Boucard, Donna Buckley (costume shop), William Cable, Brea Cali, Terry Carpenter, Rick Carver, Mary Chmelko-Jaffe, Candace deLattre, Nadine DeLeury, Ronald DeRoo, Carolina Di Cesare, Kitty Dubin, Nina Flanigan, Mindy McCabe Grissom, Mila Govich, John Hall, Rebecca Happel, Suzanne Hawkins, Terry Herald, Jennifer Kincer-Catallo, Ruth LeBay, Lynnæ Lehfeltd, Thomas Mahard, John Manfredi, Daniel Maslanka, Lisa McCall, Kenneth Milch, Cheryl Ogonowski, David Reed, Alayne Rever, Brett Rominger, Elizabeth Rowin, Christine Naughton Shawl, Victoria Shively, August Thoma, Melanie Van Allen, Brent Wrobel, (scene shop), Carol Yamasaki*

**Applied music instructors:** *Janice Albright (voice), Kerstin Allvin (harp), Barbara Bland (voice), Douglas Cornelsen (clarinet), Frederic DeHaven (organ), Candace deLattre (voice), Nadine DeLeury (cello), Edith Diggory (voice), Richard Fanning (jazz trumpet), Kirkland Ferris (bassoon), Shari Fiore (accompanist), John Hall (guitar), Rebecca Hammond (oboe), Rebecca Happel (piano/accompanying), Maxim Janowsky (double bass), Danny Jordan (jazz piano), Lois Kaarre (accompanist), Vladimir Kalmsky (accompanist), Mark Kieme (jazz saxophone), J. William King (clarinet), Rich Kowalewski (bass guitar, jazz double bass), Daniel Maslanka (percussion, jazz percussion), Ervin Monroe (flute), Lori Newman (flute), Diane Petrella (piano), Nick Petrella (percussion), Alayne Rever (saxophone), Elizabeth Rowin (violin, viola), Mary Siciliano (piano), Gordon Simmons (trumpet), Flavio Varani (piano), Corbin Wagner (French horn), Nadine Washington (voice), John Paul White (voice), Eun Young Yoo (accompanist), Tatyana Zut (accompanist), Stanley Zydek (accompanist)*

The Department of Music, Theatre and Dance offers the following programs: Bachelor of Arts with a major in music; Bachelor of Arts with performing arts majors in dance, music theatre, theatre performance, and theatre production; Bachelor of Music with majors in music education, vocal, piano, organ, and instrumental performance or composition; and Master of Music with concentrations in performance, pedagogy, conducting, music education or composition. Liberal arts minors are offered in music, theatre or dance; a secondary teaching minor is offered in dance.

The Department of Music, Theatre and Dance jointly offers a music education cognate for the education leadership major of the Ph.D. in Education degree program. This cognate prepares candidates for leadership in music education as music teacher educators, music administrators, and music curricular leaders.

The department offers student performance opportunities in dramatic productions, dance recitals, music ensembles and recitals, and music theatre.

## Departmental honors and awards

Departmental honors will be awarded for a combination of academic achievement (minimum 3.30 GPA), artistry in the major area of study and contribution to the operations of the department. The department presents a number of awards each year to students for outstanding performance and service. The Distinguished Musicianship Award is the department's highest musical honor. Outstanding Student Awards are presented to students who distinguish themselves in piano, vocal, and instrumental performance as well as in music education, music theatre, composition and chamber music. Alumni Arts Achievement Awards are presented in dance, music and theatre, and the Tomasi Merit Award recognizes a student distinguished in popular or jazz music. The Joyce Weintraub Adelson Memorial Award for Piano Ensemble honors the memory of an Oakland University piano instructor and the Jennifer Scott Memorial Award honors the memory of an Oakland University student. The Gittlin Theatre, Gittlin Achievement Awards and the Jacob Decker Award for Dance are scholarships offered to students of promise and outstanding ability. The department awards both a Distinguished Community Service Award and an Outstanding Student Service Award.

The degree programs offered by the Department of Music, Theatre and Dance are fully accredited by the National Association of Schools of Music, the National Association of Schools of Theatre, and the National Association of Schools of Dance.

## Degree Programs

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

This degree is for students who wish a broad general education without a high degree of specialization in music. Students must successfully complete the departmental ear training examination and must fulfill the events attendance requirement as described in the department's *Undergraduate Music Handbook*, available on the department website, [www.oakland.edu/mtd](http://www.oakland.edu/mtd). Students should consult with the departmental adviser in the College of Arts and Sciences Advising Office to plan their degree program. Only major courses in which a grade of at least 2.0 has been earned will count toward the major. This degree program requires a minimum of 124 credits.

<b>A. Liberal arts requirements:</b>	<b>Credits</b>
Writing requirement (RHT 150/160 or equivalent)	0-8
University general education requirements (music courses may not be used to fulfill the arts category)	32
College distribution requirements: 2 additional courses from any two of the distribution categories except art/literature and language	8
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list)	0-4
Language: Modern language course (115 or higher)	4-8
<i>Note: this major requirement will fulfill both general education and the college distribution requirements.</i>	
<b>B. Music requirements:</b>	
MUT 112/113, 114/115, 212/213, 214/215 Music Theory/Ear Training	16
MUT theory elective course selected from MUT 311, 312, 410, 411	4
MUS 120 Introduction to Non-Western Music	2
MUS 121 Introduction to Western Music History	2
MUS 320, 321 Western Music History and Literature I, II	8
Ensembles: MUE 301, 304, 320 or 331 (must enroll in ensemble that uses primary performance area every semester of major)	4

Applied music (single instrument/voice) to be chosen in consultation with adviser; must progress to and pass 300-level applied	12
Applied music elective (may include conducting, and keyboard techniques if applied area is not piano)	4
Additional music history or music theory electives chosen from: MUS 200, 336, 236, 334, 338, 428, 429 or MUT 260, 261, 311, 312, 314, 410, 411	8

*Non-credit requirements:*

- Ear training proficiency
- Events attendance requirement

## Requirements for the liberal arts majors in the performing arts, B.A. degree program

This degree is intended for students who wish to pursue careers in the performing arts and who wish to specialize in dance, theatre performance, theatre production or music theatre. Students must successfully complete the performance production requirement, the events attendance requirement and the senior interview as described in the department's *Dance and Theatre Handbooks*. Students should consult with the departmental adviser in the College of Arts and Sciences Advising Office to plan their degree program. Only major courses in which a grade of 2.0 or higher has been earned will count toward these majors. These degree programs require a minimum of 124 credits.

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

A. Liberal arts requirements:	Credits
Writing requirement (RHT 150/160 or equivalent)	0-8
University general education requirements (Courses required for the major may not be used to fulfill the arts category)	32
College distribution requirements: an additional course from any three of the distribution categories except art/literature	12
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list)	0-4
<b>B. Core:</b>	
MUA, MUE, MUS, MUT, THA, AH and SA courses in consultation with the student's adviser	8
<b>C. Dance requirements:</b>	
DAN 170 Dance Improvisation/Choreography I	2
DAN 330 Kinesiology for the Dancer	4
DAN 350 Creative Dance for Children	4
DAN 372 Choreography II	4
DAN 376 Practicum: Rehearsal and Performance (2 semesters)	2
DAN 400 Ballet IV (2 semesters)	4
DAN 410 Modern Dance IV (2 semesters)	4
DAN 425 Issues and Trends in Dance	2
DAN 428 Opportunities and Careers in Dance	2
DAN 441 Dance Pedagogy	4
DAN 472 Choreography III	4
Dance electives from DAN 130, 140, 175, 200, 210, 220, 221, 222, 299, 300, 310, 320, 373, 374, 402, 404, 420, 423, 430, 480, 490, 497, 498	6
MUT 109 Musical Comprehension for the Dancer	<u>2</u>
	44

*Non-credit requirements:*

- Senior interview in dance
- Performance production requirement
- Events attendance requirement

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

<b>A. Liberal Arts Requirements:</b>		<u>Credits</u>
Writing requirement (RHT 150/160 or equivalent).		0-8
University general education requirements (THA 100 and courses required for the major may not be used to fulfill the arts category).		32
College distribution requirements: an additional course from any three of the college distribution categories except art/literature.		12
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list).		0-4
 <b>B. Core:</b>		
MUA, MUE, MUS, MUT, AH and SA courses in consultation with the student's adviser.		8
 <b>C. Music Theatre Requirements:</b>		
THA 110	Acting: The Instrument	2
THA 111	Acting: The Script	2
THA 310	Acting: The Role	2
THA 312	Acting: Shakespeare	2
THA 120 or THA 121	Stagecraft or Costume Craft	2
THA 124	Elements of Design	
THA 220	Theatre Ensemble (2 semesters)	4
THA 305	History of Musical Theatre	4
MUA 160	Vocal Techniques	2
MUA 100-300	Applied voice	10
MUT 110	Musical Form and Comprehension	2
MUT 113, 115	Ear Training I, II	
MUE 350	Opera Workshop and/or MUE 351 Musical Theatre I Workshop (2 semesters)	2
DAN 373	Dance for Music Theatre I	2
Theatre elective (any THA course except THA 100)		<u>2</u>
		44

*Non-credit requirements:*

- Major standing
- Performance production requirement
- Events attendance requirement
- Senior interview

## Requirements for the liberal arts major in theatre performance, performing arts, B.A. program

<b>A. Liberal Arts Requirements:</b>		<u>Credits</u>
Writing requirement (RHT 150/160 or equivalent).		0-8
University general education requirements (THA 100 and courses required for the major may not be used to fulfill the arts category).		32

College distribution requirements: an additional course from any three of the college distribution categories except art/literature	12
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list.)	0-4

**B. Core:**

MUA, MUE, MUS, MUT, AH and SA courses in consultation with the student's adviser.	8
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**C. Theatre performance requirements:**

THA 110	Acting: The Instrument	2
THA 111	Acting: The Script	2
THA 310	Acting: The Role	2
THA 312	Acting: Shakespeare	2
THA 120	Stagecraft	2
THA 121	Costume Craft	2
THA 124	Elements of Design	4
THA 210	Stage Voice	2
THA 220	Theatre Ensemble (2 semesters)	4
THA 301, 302	Theatre History I, II	8
THA 323	Stage Makeup	2
THA 330	Stage Management	2
THA 331	Stage Manager Project	2
THA 405	Directing I	2
THA 406	Directing II	2
Design elective chosen from: THA 320, 321, 322, 324, 325		4
		<u>42-46</u>

*Non-credit requirements:*

Major standing  
 Performance production requirement  
 Events attendance requirement  
 Senior interview

## Requirements for the liberal art major in theatre production, performing arts, B.A. program

<b>A. Liberal Arts Requirements:</b>	<u>Credits</u>
Writing requirement (RHT 150/160 or equivalent).	0-8
University general education requirements (THA 100 and courses required for the major may not be used to fulfill the arts category).	32
College distribution requirements: an additional course from any three of the college distribution categories except art/literature.	12
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list.)	0-4
<b>B. Core</b>	
MUA, MUE, MUS, MUT, DAN, AH and SA courses chosen in consultation with the student's adviser.	8



**C. Theatre production requirements:**

THA 110	Acting: The Instrument	2
THA 120	Stagecraft	2
THA 121	Costume Craft	2
THA 124	Elements of Design	4
THA 220	Theatre Ensemble (2 semesters)	4
THA 222	Drafting for the Theatre	2
THA 223	Rendering and Model Making for the Theatre	2
THA 301	Theatre History I	4
THA 302	Theatre History II	4
THA 330	Stage Management	2
THA 331	Stage Manager Project	2
THA 405	Directing I	2
Design electives: 3 courses chosen from THA 320, 321, 322, 323, 324, 325		10-12
Theatre electives (any THA course except THA 100)		<u>0-2</u>
		44

*Non-credit requirements:*

- Senior interview
- Major standing
- Performance production requirement
- Events attendance requirement

**Requirements for the Bachelor of Music degree**

The Bachelor of Music degree is intended for students who wish preprofessional and professional preparation in music education, performance and composition. Students must successfully complete the departmental ear-training examination and must fulfill the events attendance requirement as described in the department's *Undergraduate Music Handbook available on the department website, www.oakland.edu/mtd*. Students should consult with the departmental adviser in the College of Arts and Sciences Advising Office to plan their degree program. Only major courses in which a grade of at least 2.0 has been earned will count toward the major. Requirements are as follows:

**Requirements for the major in instrumental music education, Bachelor of Music program**

Students majoring in music education must successfully complete 156-165 credits as distributed in their specific curriculum: 40-48 credits of liberal arts, 20 credits of professional education requirements, and 97 credits in music requirements.

**A. Liberal arts requirements:**

Writing requirement (RHT 150/160 or equivalent completed at 3.0 or higher)	0-8
University general education requirements (arts requirement satisfied by MUS 320)	32
U.S. diversity requirement	4
Language: modern foreign language course (115 or higher)	4-8
<i>Note: this major requirement will fulfill both general education and college distribution language requirements.</i>	

**B. School of Education requirements:**

*RDG 338 or 538	Teaching Reading in the Content Areas	4
*SED 455	Internship in Secondary Education (5th year)	12
*SE 355 or 501	Identifying Learning and Behavior Differences in Students or Intro to the Student with Special Needs	<u>4</u>
		20

Michigan Test for Teacher Certification: Basic Skills, Music Education

**C. Music requirements:**

MUT 112/113, 114/115, 212/213, 214/215	Music Theory/Ear Training	16
MUT theory elective course selected from	MUT 311, 312, 410, 411	4
MUS 120	Introduction to Non-Western Music	2
MUS 121	Introduction to Western Music History	2
MUS 320, 321	Western Music History and Literature I, II	8
MUA 161	Vocal Techniques for Instrumentalists I	2
MUA 251-253, 255-258	Beginning instrument classes	10
Applied major (MUA; normally an orchestral instrument; must include 2 semesters at the 400-level)		16
Keyboard techniques	MUA 191, 192, 291	8
Minimum of 2 credits selected from	MUT 260; MUE 310, 315, 340, 341, 345, 346	2
Ensembles:	MUE 301, 304, 320, or 331 (must enroll in ensemble that uses primary performance area every semester of major)	8
*MUS 140	Teaching and Learning Music	1
*MUS 240	Educational Psychology and Music Learning	4
*MUS 241	Methods of Teaching Music I	4
*MUS 400	Elementary Instrumental Methods	2
*MUS 404	Secondary Instrumental Methods	2
*MUS 395-396	Conducting I, II	4
*MUS 531	Philosophical and Historical Foundations of Music Education	4
		<u>97</u>

*For students with piano as applied major, enrollment in MUA 160 or 161 is by placement audition. Students placing into MUA 160 take the following 8 credits sequence: MUA 160, 100 and two semesters of MUA 200. Students placing into MUA 161 take the following 8 credit sequence: MUS 161, 162 and two semesters of MUA 100.*

*Non-credit requirements:*

Ear training proficiency  
Events attendance requirement

*Technology requirement:*

Demonstrate knowledge of notation software, creative music software, and music education technology or enroll in at least two music technology workshops offered by the department.

*\*A minimum grade of 3.0 is required in all professional courses. Application for music education major standing takes place upon completion of MUS 241.*

## **Requirements for the major in choral/general music education, Bachelor of Music program**

Students majoring in music education must successfully complete 156-160 credits as distributed in their specific curriculum: 40-48 credits of liberal arts, 20 credits of professional education requirements, and 88-92 credits in music requirements.

**A. Liberal arts requirements:**

Writing requirement (RHT 150/160 or equivalent, completed at 3.0 or higher)	0-8
University general education requirements (arts requirement satisfied by MUS 320)	32
U.S. diversity requirement	4

Language: modern foreign language course (115 or higher) plus  
 ML 211-212 Diction for singers 8-12  
*Note: this major requirement will fulfill both general education and  
 distribution language requirements.*

**B. School of Education requirements:**

*RDG 338 or 538	Teaching Reading in the Content Areas	4
*SED 455	Internship in Secondary Education (5th year)	12
*SE 355 or 501	Identifying Learning and Behavior Differences in Students or Intro to the Student with Special Needs	<u>4</u>
		20

Michigan Test for Teacher Certification: Basic Skills, Music Education

**C. Music requirements:**

		voice major	piano major
MUT 112/113, 114/115, 212/213, 214/215			
	Music Theory/Ear Training	16	16
MUT theory elective course selected from MUT 311, 312, 410, 411		4	4
MUS 120	Introduction to Non-Western Music	2	2
MUS 121	Introduction to Western Music History	2	2
MUS 320, 321	Western Music History and Literature I, II	8	8
MUA 160	Vocal Techniques	2	0
MUA 161-162	Vocal Techniques for Instrumentalists I, II	0	4
MUA 391, 392	Accompanying for Nonpianists I, II	4	0
MUA 375	Accompanying for Piano Majors	0	1
Applied voice MUA, must include 2 semesters at the 400-level for voice majors		14	4
Keyboard Techniques MUA 191, 192, 291, 292, and applied piano		8	0
Applied Piano (MUA, must include 2 semesters at the 400-level)		0	16
MUA 250	Instrumental Methods for Vocal Majors	2	0
MUA 443, 444	Keyboard Techniques for Piano Majors I, II	0	4
Ensembles:	MUE 301, 304, 320, or 331 (must enroll in ensemble that uses primary performance area every semester of major)	8	8
Minimum of 2 credits selected from MUT 260; MUE 310, 315, 340, 341, 345, 346, 365		2	2
*MUS 140	Teaching and Learning Music	1	1
*MUS 240	Educational Psychology and Music Learning	4	4
*MUS 241	Methods of Teaching Music I	4	4
*MUS 341	Methods of Teaching Music II	2	2
*MUS 403	The School Choral Program	2	2
*MUS 395-396	Conducting I, II	4	4
*MUS 531	Philosophical and Historical Foundations of Music Education	<u>4</u>	<u>4</u>
		92	88

*For students with piano as applied major, enrollment in MUA 160 or 161 is by placement audition. Students placing into MUA 160 take the following 8 credits sequence: MUA 160, 100 and two semesters of MUA 200. Students placing into MUA 161 take the following 8 credit sequence: MUS 161, 162 and two semesters of MUA 100.*

*Non-credit requirements:*

- Ear training proficiency
- Events attendance requirement

*Technology requirement:*

Demonstrate knowledge of notation software, creative music software, and music education technology or enroll in at least two music technology workshops offered by the department.

\*A minimum grade of 3.0 is required in all professional courses. Application for music education major standing takes place upon completion of MUS 241.

## Requirements for the major in vocal performance, Bachelor of Music program

This degree program requires a minimum of 124 credits.

### A. Liberal arts requirements:

Writing requirement (RHT 150/160 or equivalent)	0-8
University general education requirements (arts requirement satisfied by MUS 320)	32
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list)	0-4
Language: Italian, French or German course numbered 115 or higher, <i>plus</i> ML 211-212 Diction for Singers	8-12
<i>Note: this major requirement will fulfill both general education and distribution language requirements.</i>	

### B. Music requirements:

MUT 112/113, 114/115, 212/213, 214/215	
Music Theory/Ear Training	16
MUT theory elective course selected from MUT 311, 312, 410, 411	4
MUS 120	2
MUS 121	2
MUS 320, 321	8
MUA 361-362	4
MUS 395-396	4
MUA 160	2
Applied major	22
Applied minor	8
(keyboard unless excused by proficiency equivalent to MUA 292)	
Ensembles:	
MUE 301, 304, 320, or 331 (must enroll in ensemble that uses primary performance area every semester of major)	8
MUA 391, 392	4
Senior recital	2
MUA 499	85

*Non-credit requirements:*

    Ear training proficiency  
    Events attendance requirement

## Requirements for the major in piano performance, Bachelor of Music program

This degree program requires a minimum of 124 credits.

### A. Liberal arts requirements:

Writing requirement (RHT 150/160 or equivalent)	0-8
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University general education requirements (arts requirement satisfied by MUS 320)	32
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list)	0-4
Language course (German, French or Italian recommended) numbered 115 or higher	4-8
<i>Note: this major requirement will fulfill both general education and distribution language requirements.</i>	

**B. Music requirements:**

MUT 112/113, 114/115, 212/213, 214/215		
Music Theory/Ear Training		16
MUT theory elective course selected from MUT 311, 312, 410, 411		4
MUS 120	Introduction to Non-Western Music	2
MUS 121	Introduction to Western Music	2
MUS 320, 321	Western Music History and Literature I, II	8
MUS 455, 457	Piano Repertoire I, II	4
MUS 441, 442	Piano Pedagogy I, II	4
MUS 443, 444	Keyboard Techniques for the Piano Major I, II	4
MUS 395-396	Conducting I, II	4
Applied major	(MUA must include 2 semesters at the 400 level)	24
Ensembles:	MUE 301, 304, 320, or 331 (must enroll in ensemble that uses primary performance area every semester of major)	8
Accompanying	MUA 375	1
Senior recital	MUA 499	<u>2</u>
		82

*Non-credit requirements:*

Ear training proficiency
Events attendance requirement
Fifteen minute sophomore recital
Twenty-five minute junior recital

## Requirements for the major in organ performance, Bachelor of Music program

This degree program requires a minimum of 124 credits.

**A. Liberal arts requirements:**

Writing requirement (RHT 150/160 or equivalent)	0-8
University general education requirements (arts requirements satisfied by MUS 320)	32
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list)	0-4
Language: German course numbered 115 or higher	4-8
<i>Note: this major requirement will fulfill both general education and distribution language requirements.</i>	

**B. Music requirements:**

MUT 112/113, 114/115, 212/213, 214/215		
Music Theory/Ear Training		16
MUT theory elective course selected from MUT 311, 312, 410, 411		4
MUS 120	Introduction to Non-Western Music	2

MUS 121	Introduction to Western Music History	2
MUS 320, 321	Western Music History and Literature I, II	8
Music Literature/Pedagogy requirement: 4 credits chosen from:		
	MUS 360, 361, 441, 442, 455, or 495	4
MUS 395-396	Conducting I, II	4
MUS 480	Advanced Choral Conducting	2
Applied major	(16 credits organ, 4 credits piano including 2 semesters at the 400 level)	20
Applied minor	MUA 161-162 and 4 credits MUA 100	8
Ensembles:	MUE 301, 304, 320, or 331 (must enroll in ensemble that uses primary performance area every semester of major)	8
Accompanying	MUA 375	1
Senior recital	MUA 499	<u>2</u>
		83
<i>Non-credit requirements:</i>		
	Ear training proficiency	
	Events attendance requirement	

## Requirements for the major in instrumental performance, Bachelor of Music program

This degree program requires a minimum of 124 credits.

### A. Liberal arts requirements:

Writing requirement (RHT 150/160 or equivalent)	0-8
University general education requirements (Arts requirements satisfied by MUS 320)	32
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list)	0-4
Language course (Italian, French or German recommended) numbered 115 or higher	<u>4-8</u>
<i>Note: this major requirement will fulfill both general education and distribution language requirements.</i>	36-52

### B. Music requirements:

MUT 112/113, 114/115, 212/213, 214/215	Music Theory/Ear Training	16
MUT theory elective course selected from	MUT 311, 312, 410, 411	4
MUS 120	Introduction to Non-Western Music	2
MUS 121	Introduction to Western Music History	2
MUS 320, 321	Western Music History and Literature I, II	8
MUS 395-396	Conducting I, II	4
MUA 292	Keyboard or equivalent proficiency	0-8
Applied principal instrument	100-200 level (2 credits per semester)	16
Applied principal instrument	300-400 level (4 credits per semester)	8
Large ensembles	Band or orchestra (must enroll every semester of major)	8
Small ensemble		4
MUA 381-382	Instrumental Repertoire I and II	2
MUS 447	The Instrumental Teaching Studio	2
MUA 499	Senior recital	<u>2</u>
		78-86

*Non-credit requirements:*

- Ear training proficiency
- Events attendance requirement

## Requirements for the major in composition, Bachelor of Music program

This degree program requires a minimum of 124 credits.

**A. Liberal arts requirements:**

Writing requirement (RHT 150/160 or equivalent)	0-8
University general education requirements (arts requirement satisfied by MUS 320)	32
U.S. diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list)	0-4
Language course (German recommended) numbered 115 or higher	4-8
<i>Note: this major requirement will fulfill both general education and distribution language requirements.</i>	

**B. Music requirements:**

MUT 112/113, 114/115, 212/213, 214/215		
Music Theory/Ear Training	16	
MUT advanced theory course selected from MUT 311, 312, 410, 411	16	
MUT 260	Creative Composition I	2
MUT 415	Composition (6 semesters)	12
MUS 120	Introduction to Non-Western Music	2
MUS 121	Introduction to Western Music History	2
MUS 320, 321	Western Music History and Literature I, II	8
MUS 395-396	Conducting I, II	4
MUA 292	Keyboard or equivalent proficiency (for all students whose applied instrument is not piano) or	0-8
MUS 443, 444	Keyboard Techniques for the Piano Major I, II (for all students whose applied major is piano)	4
Applied major		8
Ensembles:	MUE 301, 304, 320, or 331 (must enroll in ensemble that uses primary performance area every semester of major)	6
MUA 499		<u>2</u>
		80-86

*Non-credit requirements:*

- Ear training proficiency
- Events attendance requirement

## Ensemble requirements

All students registered and pursuing a degree of Bachelor of Music or Bachelor of Arts with a major in music must be enrolled and participating in at least one of the following ensembles each fall and winter semester: Oakland Symphony, Symphonic Band, University Chorus or Oakland Chorale. All instrumental music majors pursuing a B.A. or B. MUS degree program are required to participate as members of the Golden Grizzly Athletic Band during their freshman year. In addition, students are encouraged to participate in as many other ensembles as desired.

## Major standing

All music students are assigned to the B.A. music curriculum; theatre and dance students are assigned to the majors in theatre and dance in performing arts.

Approval to enter a specific program of the department is given by the departmental faculty by result of a major standing jury. During the semester in which the prospective major expects to complete 30 credits toward the desired degree program, the student should apply to the Department of Music, Theatre and Dance for major standing. Major standing juries are held during finals week of fall and winter semesters. A jury before the faculty is then scheduled. The nature of the jury depends on the intended degree program.

Those students who decide to begin studies toward a degree of the department after 30 credits have already been obtained, or transfer to Oakland with 30 credits or more, should apply for major standing during their first semester of departmental studies. See the department's *Undergraduate Music, Theatre or Dance Handbooks* at [www.oakland.edu/mtd](http://www.oakland.edu/mtd) for more information.

To apply for major standing, students must:

1. Meet with a departmental adviser and prepare a program plan.
2. Complete an application for major standing and submit it with the completed program plan to the department office.
3. Perform for a major standing jury or present a major standing portfolio in the applied specialization.

## Auditions

Students who wish to be admitted to Oakland University as music majors in the Department of Music, Theatre and Dance or who wish to pursue an auditioned minor in music must audition for the department's faculty. Audition days are held several times each year. Students should contact the department for specific days and times and to make arrangements for this audition. They should be prepared to demonstrate proficiency in a specialty.

Auditions for music ensembles are held during the first few days of each semester. Auditions for other groups and theatrical productions are announced throughout the year.

## Applied music juries

Music majors must play for a jury in their major performing medium at the end of each fall and each winter semester of applied study; in some cases, a jury in a performance minor may also be required. Failure to complete this requirement will result in an "I" (Incomplete) grade. For specific jury requirements, students should consult the program director of their area of study.

## Music Education Program (K-12)

The Music Education Program at Oakland University is an extended program of study leading to K-12 certification in choral, general and instrumental music. This program is offered in conjunction with the Secondary Teacher Education Program (STEP) in the School of Education and Human Services (SEHS). Students in this program must complete the requirements for a Bachelor of Music degree in music education (with emphasis in either choral/general music or instrumental music), which includes course work in the department and in SEHS. The program does not require a teaching minor. Students must consult with an adviser in the Department of Music, Theatre and Dance.

Once students are accepted for major standing in music education, participation in field placements is required during each semester of attendance. For students enrolled in music education courses, the placement will be connected to the methods courses. Juniors and seniors who are not enrolled in methods courses are expected to participate in field placements each semester until internship. A total of 160 hours of fieldwork is required before a student enters the internship semester. All field placements are arranged through the Office of Field Placements in the School of Education and Human Services, 385 Pawley Hall, (248) 370-3060.



## Requirements for the teaching minor in dance

To earn the teaching minor in dance, students must complete a minimum of 28 credits distributed as follows:

1. DAN 170, 330, 350, 376, 425, 428, 441
2. 8 credits selected from DAN 200, 300, 400; DAN 210, 310, 410; DAN 220, 320; DAN 130.

This minor is designed for K-12 certification.

## Requirements for the liberal arts minor in music

The department offers two tracks for students who wish to earn a minor in music, the Liberal Arts Minor and an Auditioned Minor.

The curriculum for the traditional liberal arts minor consists mainly of music classes intended for non-majors. Only a few of these classes can be used for major credit toward a bachelor's degree in music. This minor requires no audition. Students must complete a minimum of 24 credits in:

1. 16 credits in music history and theory selected from: MUS 200, 236, 334, 336, 338; MUT 110, 111, 260, 261.
2. 4 credits applied music selected from: MUA 150, 151, or at the 100 level in the major instrument area, subject to acceptance by the applied instructor.
3. 4 credits of ensemble: any MUE course subject to ensemble audition.

The curriculum for the auditioned minor consists mainly of classes intended for majors, making it possible to apply these courses to a bachelor's degree in music should the student choose to do so. This minor requires the same audition required of music majors. Students must complete a minimum of 24 credits in:

1. 8 credits in music history: MUS 120, 121, and one from: MUS 200, 236, 320, 321, 334, 336, 338.
2. 8 credits of music theory: MUT sequence, level determined by placement exam.
3. 4 credits of applied music: two terms of 100 level applied lessons on the instrument with which the student performed the entrance audition. Voice students take MUA 160 and then MUA 100 or MUA 161 and 162.
4. 4 credits of ensemble: any MUE course subject to ensemble audition.

## Requirements for the liberal arts minor in theatre

To earn a minor in theatre, students must complete a minimum of 20 credits distributed as follows: THA 110, 2 credits in 120 or 121; 4 credits in THA 124; 4 credits in theatre history; 4 credits in acting, voice or movement; ; and 4 additional credits from any theatre course(s) except THA 100 and 105.

## Requirements for the liberal arts minor in dance

To earn a minor in dance, students must complete a minimum of 20 credits including 10 credits in DAN 170, 173 and 372; 4 credits from DAN 330 and 472; and 6 credits from any other DAN courses.

## 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*.

Many courses in the rubrics MUA, MUS and MUT are restricted to students who have declared an auditioned minor in music or who are officially majoring in one of the department's music curricula: the liberal arts major in music and the performing arts major, theatre arts in the Bachelor of Arts degree program or any of the majors in the Bachelor of Music degree program. To take a course that is restricted, students must perform a successful entrance audition. See "Auditions."

Only the following MUA, MUS and MUT courses are open to non-majors: MUA 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 130, 131, 132, 133, 134, 135, 136 (all with permission of program director); MUA 150, MUA 151; MUS 100, 200, 334, 336, 338, 353, 354; MUT 109, 110, 111, 260, 261.

All MUE courses are open to non-majors.

### APPLIED MUSIC

"Applied music" refers to study of a given instrument or voice. There are two types of applied study—individual lessons and class group lessons. Both types involve an applied music fee in addition to tuition (see *Course Fees*). OU students may study applied music providing they meet minimum criteria established by the department and pass a placement audition.

### INDIVIDUAL LESSONS

The courses below have four course-level designations. All students begin their enrollment in an applied specialty at the 100 level. Student advancement to the higher levels is determined by the results of applied music juries. Two semesters at the 400 level are required in the major performing medium before graduation. In all music major curricula except the major in composition, Bachelor of Music degree program, the courses below have credit options of 1 or 2; or 1, 2 or 4. Four credits is the correct enrollment for applied study for students who are junior or senior status and otherwise have been accepted into the Bachelor of Music in performance programs. This 4 credit enrollment requires an hour lesson per week with an extensive demand for practice and literature study. For all other curricula, including minors and non-majors, the correct enrollment is 1 credit for a half-hour lesson per week and 2 credits for an hour lesson per week.

All courses of applied individual lessons may be repeated for credit. All students enrolled in individual lessons must also attend a weekly studio or master class.

All courses of applied individual lessons carry a prerequisite of *permission of the program coordinator*.

MUA 100	Voice (1 or 2)
Prerequisite: MUA 150, 160, 161, or 162 and permission of program coordinator.	
MUA 200	Voice (1 or 2)
MUA 300, 400	Voice (1, 2 or 4)
MUA 101, 201	Piano (1 or 2)
MUA 301, 401	Piano (1, 2 or 4)
MUA 102, 202, 302, 402	Organ (1 or 2)
MUA 103, 203, 303 403	Harpsichord (1 or 2)
MUA 104, 204	Violin (1 or 2)
MUA 304, 404	Violin (1, 2 or 4)
MUA 105, 205	Viola (1 or 2)
MUA 305, 405	Viola (1, 2 or 4)
MUA 106, 206	Violoncello (1 or 2)

MUA 306, 406	Violoncello (1, 2 or 4)
MUA 107, 207	Double Bass (1 or 2)
MUA 307, 407	Double Bass (1, 2 or 4)
MUA 108, 208	Flute (1 or 2)
MUA 308, 408	Flute (1, 2 or 4)
MUA 109, 209	Oboe (1 or 2)
MUA 309, 409	Oboe (1, 2 or 4)
MUA 110, 210	Clarinet (1 or 2)
MUA 310, 410	Clarinet (1, 2 or 4)
MUA 111, 211	Bassoon (1 or 2)
MUA 311, 411	Bassoon (1, 2 or 4)
MUA 112, 212	French Horn (1 or 2)
MUA 312, 412	French Horn (1, 2 or 4)
MUA 113, 213	Trumpet (1 or 2)
MUA 313, 413	Trumpet (1, 2 or 4)
MUA 114, 214	Trombone (1 or 2)
MUA 314, 414	Trombone (1, 2 or 4)
MUA 115, 215	Tuba (1 or 2)
MUA 315, 415	Tuba (1, 2 or 4)
MUA 116, 216	Timpani (1 or 2)
MUA 316, 416	Timpani (1, 2 or 4)
MUA 117, 217,	Percussion (1 or 2)
MUA 317, 417	Percussion (1, 2 or 4)
MUA 118, 218	Harp (1 or 2)
MUA 318, 418	Harp (1, 2 or 4)
MUA 119, 219	Guitar (1 or 2)
MUA 319, 419	Guitar (1, 2, or 4)
MUA 120, 220, 320, 420	Bass Guitar (1, or 2)
MUA 122, 222, 322, 422	Lute (1 or 2)
MUA 123, 223, 323, 423	Recorder (1 or 2)
MUA 124, 224	Saxophone (1 or 2)
MUA 324, 424	Saxophone (1, 2 or 4)
MUA 130, 230, 330, 430	Piano (jazz) (1 or 2)
MUA 131, 231, 331, 431	Guitar (jazz) (1 or 2)
MUA 132, 232, 332, 432	Trumpet (jazz) (1 or 2)
MUA 133, 233, 333, 433	Saxophone (jazz) (1 or 2)
MUA 134, 234, 334, 434	Percussion (jazz) (1 or 2)
MUA 135, 235, 335, 435	Double Bass (jazz) (1 or 2)
MUA 136, 236	Euphonium (1 or 2)
MUA 336, 436	Euphonium (1, 2, or 4)
MUA 149, 249, 349, 449	Applied Music (1 or 2)

MUA 149-449 may be used to increase the number of private lessons in the student's major or minor performing medium and must be taken with one of the applied music courses above.

## GROUP LESSONS

### MUA 150 Vocal Techniques for Non-Majors (2)

Introduction to the technique of singing geared to the non-major. Basic breath control, voice placement and diction, with an emphasis on healthy voice production crossing musical styles.

### MUA 151 Beginning Piano for Non-Majors (2)

Introduction to basic keyboard skills, designed for students with little or no musical background.

### MUA 160 Vocal Techniques (2)

Techniques of singing, including diction, breath control, projection and repertoire. This course is a pre-requisite to private voice study.

Prerequisite: Open to music majors only.

### MUA 161 Vocal Techniques for Instrumentalists I (2)

Introduction to singing with emphasis on alignment, breath control, projection, basic anatomy of the voice, and voice health, including the speaking voice. Fall semester.

**MUA 162      Vocal Techniques for Instrumentalists II (2)**

Continuation of the basic techniques of MUA 161 with more detailed attention to diction (International Phonetic Alphabet). Winter semester.

Prerequisite: MUA 161.

**MUA 191      Keyboard Technique I (2)**

Development of the basic keyboard facility essential to any musician and some acquaintance with keyboard literature. May not be repeated for credit.

Prerequisite: Placement exam and permission of instructor. Open to music majors only.

**MUA 192      Keyboard Technique II (2)**

Development of the basic keyboard facility essential to any musician and some acquaintance with keyboard literature. May not be repeated for credit.

Prerequisite: MUA 191. Open to music majors only.

**MUA 250      Instrumental Methods for Vocal Majors (2)**

Introduction to the teaching of basic performance skills on band and orchestral instruments for students majoring in choral/general music education. Winter semester.

**MUA 251      Methods of Teaching Beginning Strings (2)**

Principles and practices of teaching beginning violin, viola, cello and bass students in school music programs. Includes basic string technique for teachers.

**MUA 252      Methods of Teaching Experienced Strings (2)**

Principles and practices of teaching experienced violin, viola, cello and bass students in school music programs. Includes more advanced string technique for teachers.

**MUA 253      Methods of Teaching Flute and Single Reeds (2)**

Principles and practices of teaching flute, clarinet and saxophone students in school music programs. Includes basic playing technique for teachers.

Prerequisite: Open to music majors only.

**MUA 255      Methods of Teaching Double Reeds (2)**

Principles and practices of teaching oboe and bassoon students in school music programs. Includes basic playing technique for teachers.

**MUA 256      Methods of Teaching High Brass (2)**

Principles and practices of teaching trumpet and French horn students in school music programs. Includes basic playing technique for teachers.

**MUA 257      Methods of Teaching Low Brass (2)**

Principles and practices of teaching trombone, euphonium and tuba students in school music programs. Includes basic playing technique for teachers.

Prerequisite: Open to music majors only.

**MUA 258      Methods of Teaching Percussion (2)**

Principles and practices of teaching percussion students in school music programs. Includes basic playing technique for teachers.

**MUA 291      Keyboard Technique III (2)**

Development of the basic keyboard facility essential to any musician and some acquaintance with keyboard literature. May not be repeated for credit. Open to music majors only.

Prerequisite: MUA 192.

**MUA 292      Keyboard Technique IV (2)**

Development of the basic keyboard facility essential to any musician and some acquaintance with keyboard literature. May not be repeated for credit. Open to music majors only.

Prerequisite: MUA 291.

**MUA 361-362 Vocal Literature I and II (2 each)**

A survey of literature for the voice with emphasis on historical style. MUA 361 covers the Middle Ages through the 19th century, with emphasis on German song. MUA 362 continues through the 19th and 20th centuries, emphasizing French, British and American.

Prerequisite: ML 211, ML 212 (may be taken concurrently). Permission of instructor required.

**MUA 375 Accompanying for Piano Majors (2)**

Accompanying for students whose major instrument is piano.

**MUA 381 Instrumental Repertoire I (1)**

Examination of instrumental repertoire with emphasis on chamber music, solo literature, and orchestral excerpts specific to the instrument of study.

Prerequisite: Junior standing.

**MUA 382 Instrumental Repertoire II (1)**

Continuation of MUA 381.

Prerequisite: MUA 381.

**MUA 391 Accompanying for the Non-pianist I (2)**

Basic accompanying skills for the non-piano major. Designed for music majors who will need basic accompanying skills to function effectively in either the classroom or the private studio.

Prerequisite: MUA 292.

**MUA 392 Accompanying for the Non-pianist II (2)**

Continuation of MUA 391.

Prerequisite: MUA 391.

**MUA 443 Keyboard Skills for the Piano Major I (2)**

Functional skills for keyboard majors, including sight-reading, transposition, harmonization and score-reading.

Prerequisite: Piano as principal applied instrument. For piano performance and music education piano concentration majors only.

**MUA 444 Keyboard Skills for the Piano Major II (2)**

Continuation of MUA 443.

Prerequisite: MUA 443.

**MUA 495 Directed Applied Study (1 or 2)**

Directed independent applied instrumental study.

Prerequisite: Permission of department.

**MUA 499 Senior Recital (2)**

A recital approximately one hour in length (not including pauses and intermission) in which student demonstrates his/her creative and artistic abilities. Required in some music curricula as the culminating project before graduating, optional in others.

Prerequisite: At least one semester of 400-level applied study for performance and music education curricula, or MUT 415 for composition.

Corequisite: 400-level applied study for performance and music education curricula, or MUT 415 for composition.

**MUSIC ENSEMBLES**

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

**MUE 301 University Chorus (0 or 1)**

Performance of a wide range of the large-group choral repertoire. No audition required.

**MUE 302 Community Chorus (0 or 1)**

Festival-type mixed chorus for citizens of the surrounding communities who possess vocal experience. Performance of varied choral literature. Meets in the evening.

**MUE 303 Men's Chorus (0 or 1)**

Performance of tenor-bass choral literature of all styles and periods.

**MUE 304 Oakland Chorale (0 or 1)**

Performance of a wide range of choral chamber repertoire from Renaissance to the present.

Prerequisite: Permission of instructor.

**MUE 308 Meadow Brook Estate (0 or 1)**

A show ensemble presenting staged and choreographed shows. Rigorous performance schedule in professional situations. Auditions are held prior to the beginning of the semester.

Prerequisite: Permission of instructor.

**MUE 310 Vocal Jazz Improvisation Workshop (0-1)**

The stylistic requirements for singing in the jazz idiom. Topics include the analysis of established singers and styles, scat singing, jazz vocal production, microphone techniques, lyric interpretation, repertoire development, and arranging for a rhythm quartet.

**MUE 315 Oakland Jazz Singers (0 or 1)**

Ensemble performance of complex vocal jazz works. Development of jazz style and blend, scat-singing, solo production and microphone technique.

Prerequisite: Permission of instructor.

**MUE 320 Oakland Symphony (0 or 1)**

Orchestral performance of repertoire from the 18th, 19th and 20th centuries. Several concerts per year, on- and off-campus. Accompaniments for solo concertos and university choral groups. membership by audition. Graded S/U.

Prerequisite: Permission of instructor.

**MUE 329 Concert Band (0 or 1)**

A non-auditioned instrumental ensemble designed to offer performance opportunities for non-majors and laboratory experiences for music majors.

**MUE 331 Symphonic Band (0 or 1)**

An ensemble of wind instruments performing standard concert band literature.

Prerequisite: Permission of instructor.

**MUE 332 Golden Grizzly Athletic Band (0 or 1)**

An instrumental ensemble that performs at various Oakland university campus and athletic events.

Prerequisite: Permission of the instructor.

**MUE 340 Oakland University Jazz Band (0 or 1)**

A big band jazz ensemble performing traditional and contemporary jazz literature. Experience will be gained in ensemble and improvisational performance. Audition required.

Prerequisite: Permission of instructor.

**MUE 341 Jazz Improvisation Combos (0 or 1)**

Performance based ensemble environment designed to provide the student with jazz improvisational understanding and skills. Study and performance of traditional and progressive instrumental and vocal repertoire.

**MUE 345 African Ensemble (0 or 1)**

Study and performance of drumming and xylophone traditions as related to African oral culture using authentic Ghanaian and Ugandan instruments.

**MUE 346 Steel Band (0 or 1)**

Study and performance of various Trinidadian and Caribbean styles using handcrafted steel drums.

**MUE 347 Rhythm and Movement Workshop (0 or 1)**

Study of percussion as related to dance. Emphasis will be on the interrelated nature of these two art forms.

Prerequisite: Permission of the instructor. MUE 345, 346 recommended.

**MUE 350      Opera Workshop (0 or 1)**

Study and experience in various forms of operatic music theatre.  
Prerequisite: Permission of instructor.

**MUE 351      Musical Theatre Workshop (0 or 1)**

Performance and study of repertory of the musical theatre.  
Prerequisite: Permission of instructor.

**MUE 360      Collegium Musicum (0 or 1)**

Performance of Medieval, Renaissance and Baroque music in various vocal and instrumental combinations. Period instruments and performance practices are emphasized. Graded S/U.  
Prerequisite: Permission of instructor.

**MUE 365      Contemporary Music Ensemble (0 or 1)**

The study and performance of recent music, focusing on student literature, repertoire, and non-jazz improvisation.  
Prerequisite: Permission of instructor.

**MUE 370      Guitar Ensemble (0 or 1)**

Performance practice and techniques of guitar literature involving two or more players.

**MUE 371      Saxophone Ensemble (0 or 1)**

Performance, practice and techniques of saxophone literature involving two or more players.

**MUE 372      Flute Ensemble (0 or 1)**

Performance, practice and techniques of flute literature involving two or more players.

**MUE 373      Percussion Ensemble (0 or 1)**

Performance of music for various combinations of percussion instruments.  
Prerequisite: Permission of instructor.

**MUE 374      Brass Ensemble (0 or 1)**

Performance, practice and techniques of brass literature involving two or more players.

**MUE 375      Piano Ensemble (0 or 1)**

Class instruction in performance and repertory of multiple keyboard literature.  
Prerequisite: Permission of instructor.

**MUE 376      String Ensemble (0 or 1)**

Performance, practice and techniques of string literature involving two or more players.

**MUE 380      Chamber Music (0 or 1)**

Performing ensemble of various instrumentations. A spectrum of appropriate music literature, medieval through contemporary.  
Prerequisite: Permission of department.

**MUE 390      Accompaniment Practicum (0 or 1)**

Experience in piano accompaniment of solo and/or ensembles, vocal and instrumental. May be repeated once for credit.  
Prerequisite: MUA 375 or permission of instructor.

**MUSIC HISTORY, LITERATURE, APPRECIATION AND EDUCATION****MUS 100      An Introduction to Music (4)**

Introduction to Western art music and its traditions with emphasis on music listening as an active and intellectual experience. No prior knowledge of music notation or theory is required. *Satisfies the university general education requirement in the arts knowledge exploration area.*

**MUS 120      Introduction to Non-Western Music (2)**

Introduction to world music and musical styles from major cultural and ethnic groups, and also to the discipline of ethnomusicology. Primarily for music majors.  
Corequisite: MUT 112 or 114.

**MUS 121 Introduction to Western Music History (2)**

Introduction to western music, concentrating on major composers, styles, forms and cultural and historical contexts. Primarily for music majors.

Corequisite: MUT 112 or 114.

**MUS 140 Teaching and Learning Music (1)**

Introduction to the teaching and learning of music in classroom and studio settings. Ten hours field observation required.

**MUS 200 Cultural Foundations and Historical Development of Rock Music (4)**

A study of rock music rooted in African and African-American cultures as the result of social upheavals and economics and as a continuous and overwhelming influence on today's American society. *Satisfies the university general education requirement in the arts knowledge exploration area. Satisfies the university general education requirement in U.S. diversity.*

**MUS 231 Studies in Orchestral Music (1 or 2)**

Seminars, independent study and performance of orchestral music, including study of performance practices, theory, history and chamber music of various periods. Offered summer session.

**MUS 236 Music in African Culture (4)**

Survey of music cultures in sub-Saharan Africa through the study of musical styles and aesthetics found within selected ethnic groups. Emphasis on cultural context and the relationship of music to language, dance and ritual. *Satisfies the university general education requirement in the arts knowledge exploration area or in the global perspective knowledge exploration area, not both.*

**MUS 240 Educational Psychology and Music Learning (4)**

Theories of learning and their implication for and application to music education practice, including study of developmentalist, behaviorist, cognitivist and constructivist theories and what they imply about the nature of teaching and learning in classroom and studio settings. Some field observation required.

Prerequisite: MUS 121, 140; MUT 114, 115.

**MUS 241 Methods of Teaching Music I (4)**

Principles and practices of teaching music, based on experiences in the elementary general music classroom. Emphasis on the development of musical understanding through an interactive approach, including study of current trends in education and music education. Two hours per week participation in on-site field observation and teaching required.

Prerequisite: MUS 240.

**MUS 251 Applied Music (1 or 2)**

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

Prerequisite: Permission of department.

**MUS 295 Independent Study (1, 2 or 4)**

Normally for freshmen and sophomores.

Prerequisite: Permission of department.

**MUS 318 Business of Music (4)**

A survey of business techniques and procedures, laws, licensing and accounting practices in the music industry, and a study of career opportunities related to music.

**MUS 320 Western Music History and Literature I (4)**

Survey of western music from the middle ages to the end of the baroque (ca. 800 to ca. 1750). Primarily for music majors. *Satisfies the university general education requirement in the arts knowledge exploration area for 2005-2006.*

Prerequisite: MUS 121 and MUT 114, or permission of instructor.

**MUS 321 Western Music History and Literature II (4)**

Survey of western music from the classical period to the present (ca. 1750 to the present). Primarily for music majors.

Prerequisite: MUS 121 and MUT 114 or permission of instructor.



**MUS 327 Twentieth Century Music (2)**

A study of significant styles and composers from Debussy to the present.  
Prerequisite: MUS 121 and MUT 114

**MUS 334 History of Film Music (4)**

Survey of music written for film from the early sound films to recent contributions using the range of genres from symphonic to popular idioms. Emphasis on how music shapes a film's emotion, pacing and subtext. *Satisfies the university general education requirement in the arts knowledge exploration area.*

**MUS 336 Music of the Americas: African Origins (4)**

Study of the African-based music traditions found in the Caribbean Islands, South America and the United States. Emphasis on cultural context and the development of new musical forms by African-Americans. *Satisfies the university general education requirement in the arts knowledge exploration area. Satisfies the university general education requirement in U.S. diversity.*

**MUS 338 Jazz and Blues: American Musics (4)**

Survey of jazz and blues styles, performers and examples, in the context of the historical, social, economic and political background. *Satisfies the university general education requirement in the arts knowledge exploration area. Satisfies the university general education requirement in U.S. diversity.*

**MUS 341 Methods of Teaching Music II (2)**

Principles and practices of teaching music, based on experiences in the secondary music classroom. Emphasis on the development of musical understanding through an interactive approach, including study of current trends in education and music education. Three hours per week participation in on-site field observation and teaching required.  
Prerequisite: MUS 241.

**MUS 351 Commercial Music Seminar (4)**

A study of commercial music careers and performance techniques for singers and instrumentalists.  
Prerequisite: Sophomore standing.

**MUS 353 Audio Techniques (2)**

Study of electronic issues, basic hardware, and acoustical phenomena associated with sound recording and sound reinforcement. Projects will involve the recording of live concerts.  
Prerequisite: Sophomore standing.

**MUS 354 The Recording Studio (2)**

Continuation of MUS 353 and a study of recording, editing, mixing and mastering in a recording studio. The experience will conclude with the mastering of a CD.  
Prerequisite: MUS 353.

**MUS 360-361 Church Music I and II (2 each)**

Study of liturgy and hymnology. Development of skill in service playing at the organ, chant accompaniment, modulation and improvisation. Combination of organ and choral repertoire for church service. Offered in alternate years.  
Prerequisite for 360: MUS 320, MUS 321.  
Prerequisite for 361: MUS 360.

**MUS 370 Women in Music (4)**

Focuses on the opportunities and roles of women in music from the Middle Ages to the present.  
Identical with WS 370.

**MUS 395-396 Conducting I and II (2 each)**

Basic techniques of conducting. Both choral and instrumental techniques are studied. Students are assigned to a conducting or performance lab at least one hour per week.  
Prerequisite: MUT 214.

**MUS 400 Elementary Instrumental Methods (2)**

Provides practical information related to the teaching of elementary instrumental music. Develops strategies for creative learning. Three hours per week field experience is required.  
Prerequisite: MUT 214.

**MUS 403      The School Choral Program (2)**

Principles and practices for organizing and running a successful choral program in elementary school, middle school and high school: *e.g.*, recruiting, criteria for selection of repertoire, performance and management techniques. Emphasis on developing musical understanding through the performance experience. Three hours per week field experience is required.

Prerequisite: MUS 396 or permission of instructor.

**MUS 404      Secondary Instrumental Methods (2)**

Provides practical information related to the teaching of middle school and high school instrumental music: *e.g.*, teaching strategies, repertoire, materials and techniques. Emphasis on developing musical understanding through the performance experience. Three hours per week field experience is required.

Prerequisite: MUS 396 or permission of instructor.

**MUS 405      Marching Band Techniques (2)**

Provides practical information related to the organization and teaching of marching band. Topics include strategies and techniques for teaching, rehearsal, and student motivation. Introduction to show design and drill writing. Three hours per week field experience is required.

Prerequisite: MUS 395-396 and MUT 214.

**MUS 428      Opera I (2)**

History of opera from Monteverdi to Mozart. Detailed study of selected examples, concentration on the interaction of musical and dramatic form, and consideration of performance practice issues.

Prerequisite: MUS 320, MUS 321.

**MUS 429      Opera II (2)**

History of opera from Beethoven to present. Detailed study of selected examples, concentration on the interaction of music and text, and consideration of musical and dramatic characterization.

Prerequisite: MUS 320, MUS 321.

**MUS 430      Seminar in Opera and Drama (4)**

Relationship between opera and drama, and the literary sources used by composers for such musical works, through an examination of a number of representative works in the opera repertory from 1600 to 1945.

Prerequisite: MUS 321, MUT 214; for music majors.

**MUS 441      Piano Pedagogy I (2)**

Instructional strategies for teaching the beginning piano student, including methods, materials and the use of music technology. Various aspects of establishing and managing a piano studio will be addressed. Weekly observations required.

Prerequisite: Permission of instructor.

**MUS 442      Piano Pedagogy II (2)**

Instructional strategies for teaching the intermediate and advanced piano student, including methods, materials, repertoire and the use of music technology. Includes weekly observations and supervised teaching.

Prerequisite: MUS 441.

**MUS 447      Instrumental Teaching Studio (2)**

Instructional strategies for teaching instrumental music in a private studio, including methods, materials and music technology.

Prerequisite: Junior standing.

**MUS 448      Group Piano Pedagogy (2)**

Pedagogy for teaching group piano at all levels, preschool through adult, including college non-music majors and music majors. Explore texts, supplementary materials, electronic instruments. Learn teaching techniques and group dynamics. Lecture, observation, and supervised teaching.

Prerequisite: Senior standing in music and MUS 441, 442.

**MUS 450      Vocal Pedagogy (2)**

Examination of the scientific and aesthetic principles of voice production, emphasizing both the physiological and psychological aspects of singing, with the ultimate goal of teaching others to sing. The diagnosis and correction of vocal faults working with a damaged voice will also be addressed. Prerequisite: MUA 300.

**MUS 451      Applied Music (1 or 2)**

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

**MUS 455      Piano Repertoire I (2)**

Survey of piano repertoire from the baroque to classic (ca. 1600-ca. 1820). Prerequisite: Permission of instructor.

**MUS 456      Survey and Study of Choral Literature (2)**

Study of choral literature from the Renaissance to the present. Examination of music from each period with emphasis on literature selection for choral groups, understanding and interpretation of the scores, historical accuracy in performance, and program building, with an overall eye toward practical usage.

Prerequisite: Junior standing or permission of instructor.

**MUS 457      Piano Repertoire II (2)**

Survey of piano repertoire from the classic to the present (ca. 1820 to the present). Prerequisite: MUS 455 or instructor permission.

**MUS 480      Advanced Choral Conducting (2)**

Studies in advanced choral technique and literature with emphasis on problem solving and practical applications.

Prerequisite: MUS 396 or permission of instructor.

**MUS 481      Advanced Instrumental Conducting (2)**

Studies in advanced instrumental technique and literature with emphasis on problem solving and practical applications.

Prerequisite: MUS 396 or permission of instructor.

**MUS 491      Directed Research in Music History (1 or 2)**

Directed individual reading and research for advanced music history majors.

Prerequisite: MUS 321.

**MUS 494      Directed Research in Music Education (2 or 4)**

Directed individual reading and research in music instruction.

Prerequisite: MUS 241, and either MUS 403 or 404.

**MUS 495      Independent Study (1, 2 or 4)**

Normally for juniors and seniors.

Prerequisite: Permission of department.

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

Supervised participation in teaching an undergraduate course in music, together with discussion of teaching methods and objectives.

Prerequisite: Permission of department.

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

Current topics and issues in music performance and literature.

**MUSIC THEORY AND COMPOSITION****MUT 109      Musical Comprehension for the Dancer (2)**

Study of musical comprehension with particular focus on sound organization and its relationship to physical impulse and response.

**MUT 110 Musical Form and Comprehension (2)**

A study of musical communication, focusing on elements of music that impact how music is perceived and understood, such as form, cadence, gesture, texture, rhythm, meter, syncopation, tempo, key, timbre, tonality, dynamics and style. Intended for the student who does not read music.

**MUT 111 Notation of Musical Ideas (2)**

A study of traditional Western music notation systems, focusing on how those systems indicate to the performer the various elements of music. Intended for the non-major, or for the music major who needs remedial preparation for MUT 112.

Prerequisite: MUT 110 or permission of instructor.

**MUT 112 Music Theory I (3)**

Fundamentals of musical structure, form, analysis and style. Intended for music majors. To be taken with MUT 113.

Prerequisite: MUT 111 or placement exam.

**MUT 113 Ear-training I (1)**

An ear-training laboratory to accompany MUT 112.

**MUT 114 Music Theory II (3)**

Continuation of MUT 112. To be taken with MUT 115.

Prerequisite: MUT 112.

**MUT 115 Ear-training II (1)**

An ear-training laboratory to accompany MUT 114.

Prerequisite: MUT 113 or placement exam.

**MUT 212 Music Theory III (3)**

Continuation of MUT 114.

Prerequisite: MUT 114.

**MUT 213 Ear-training III (1)**

An ear-training laboratory to accompany MUT 212.

Prerequisite: MUT 115.

**MUT 214 Music Theory IV (3)**

Continuation of MUT 213.

Prerequisite: MUT 212.

**MUT 215 Ear-training IV (1)**

An ear-training laboratory to accompany MUT 214.

Prerequisite: MUT 213.

**MUT 260 Creative Composition I (2)**

Techniques for composing original music including approaches to conceptualization, form, texture, melody, harmony and counterpoint. Skills will be developed in music notation, synthesizers, sequences and computer software. Frequent composition projects will be assigned and performed in class.

**MUT 261 Creative Composition II (2)**

Continuation of MUT 260.

Prerequisite: MUT 260.

**MUT 311 Musical Analysis and Form (4)**

Techniques of analyzing works of various styles and periods with an emphasis on tonal music.

Prerequisite: MUT 214.

**MUT 312 Counterpoint (4)**

Study of the contrapuntal style of the 16th and 18th century; includes composition and analysis in the styles.

Prerequisite: MUT 214.

**MUT 314 Jazz Theory (4)**

Jazz notation, arranging and composition.  
Prerequisite: MUT 214.

**MUT 410 Twentieth Century Techniques (4)**

Compositional practices in the 20th century; composition and analysis.  
Prerequisite: MUT 214.

**MUT 411 Orchestration (4)**

A study of the art of instrumental combination as applied to various ensemble applications, including full orchestra and band.  
Prerequisite: MUT 214.

**MUT 414 Jazz Composition and Arranging (4)**

Composition and arranging technique for jazz ensembles. Includes study of jazz notational systems, idiomatic jazz practice, standard jazz forms and orchestration for instruments and voice as used in jazz ensembles.  
Prerequisite: MUT 214.

**MUT 415 Composition (2)**

Private lessons in composition and composition laboratory: studies, exercises and projects concerning creativity and craft in composing music. Weekly seminar is also required. May be repeated for credit.  
Prerequisite: Composition majors: MUT 114, 115 with average grade of 3.5 or higher. Non-composition majors: MUT 214, 260, 261 with average grade of 3.50 or higher.

**INTERDISCIPLINARY PERFORMING ARTS****MTD 201 Performing Arts Experiences for Children (4)**

An introduction to the performing arts designed to provide prospective teachers with a basis and background for integrating musical, theatrical and dance experiences into classroom curricula.  
Prerequisite: Admission to elementary education major; FE 210, FE 215, EED 354, EED 420.

**MTD 250 The Arts in Society (4)**

An introduction to issues and concepts through an exploration of the artistic endeavors in specific cultures and historical time periods. A comprehensive approach to the arts will be involved in the study of relationships among the arts forms, with special emphasis on music, dance and drama.

**THEATRE****THA 100 Introduction to Theatre (4)**

Theatre as an art form. Topics include acting, directing, design, dramatic literature, theatre history, theory and criticism. Students will view selected plays. *Satisfies the university general education requirement in the arts knowledge exploration area.*

**THA 105 Acting for Non-Theatre Majors (2)**

Acting experiences designed for non-theatre majors. Students will acquire basic acting skills, explore vocal and physical expressiveness, and gain confidence in performance settings.

**THA 110 Acting: The Instrument (2)**

Prepares the actors' instrument for work on stage. Student actors discover their unique physical, vocal and emotional gifts and develop a respect for acting as a collaborative art.  
Prerequisite: For theatre majors and minors only.

**THA 111 Acting: the Script (2)**

Actors' approach to script analysis. Focus on acquisition of an acting vocabulary, research methods, continued vocal and physical development, and basic audition techniques.  
Prerequisite: THA 110 or THA 105 and permission of instructor.

**THA 120 Stagecraft (2)**

Survey of techniques of scenery construction and stage lighting, including proper use of tools and hardware in these areas.  
Prerequisite: Theatre major or minor or permission of the instructor.

**THA 121 Costume Craft (2)**

Survey of basic techniques of costume construction crafts, including proper use of tools and materials.  
Prerequisite: Theatre major or minor or permission of the instructor.

**THA 124 Elements of Design (4)**

Introduction to basic principles of design and their application to the art of theatre.  
Prerequisite: Theatre major or minor or permission of the instructor.

**THA 210 Stage Voice (2)**

Development of actors' understanding and command of voice and speech for the stage. Preference for openings in this course is given to theatre majors and minors.  
Prerequisite: THA 110 or permission of instructor.

**THA 211 Stage Movement (2)**

Exploring character and relationship through physical action. Discovering idiosyncrasies and neutrality. Preference for openings in this course is given to theatre majors and minors.  
Prerequisite: THA 110 or permission of instructor.

**THA 213 Mime (2)**

Basic mime techniques for the actor. These include imaginary objects, movement and environment illusions and useful skills for the actor's imagination.

**THA 214 Alexander Technique (2)**

Technique for achieving greater ease and grace of movement, with special applications for the performing artist.  
Prerequisite: Studio course in acting, dance, voice or instrumental music. May be taken concurrently.

**THA 215 T'ai Chi Ch'uan (2)**

Learning the first section of the Yang style form, students will increase their awareness of current movement habits and learn how to replace old habits with those that allow greater ease of movement, requiring less effort and muscular tension.

**THA 216 Stage Combat (2)**

Safe methods of creating the illusion of violence on stage. Hand to hand and basic sword work.  
Prerequisite: Preference for openings in this course is given to theatre majors and minors.

**THA 220 Theatre Ensemble (0 or 2)**

Participation in a student production under faculty supervision. A minimum of 60 hours. Students will maintain a running log, keeping track of their time and continuously evaluating their experiences. Credit is available for on-stage and backstage work. May be repeated for a total of 8 credits.

**THA 222 Drafting for the Theatre (2)**

Study of the visual tools of scenic presentation: drafting, sketching, and perspective. Focus on principles and techniques of theatre drafting of groundplans, scenery and lighting. An introduction to computer-assisted drafting will be included.  
Prerequisite or Corequisite: THA 120 or 124.

**THA 223 Rendering and Model Making for the Theatre (2)**

Study of the presentational skills of theatrical design. Focus on the development of skills and techniques in drawing, rendering, and model making for scenery, costume and lighting.  
Prerequisite or Corequisite: THA 120 or 124.

**THA 301 Theatre History I (4)**

Survey of theatre from its origins to about 1700, including dramatists, stages, productions, and acting. A few representative plays will be read. Mandatory attendance at selected live performances. May include student participation in brief performance projects. *Satisfies the university general education requirement in the arts knowledge exploration area.*

**THA 302 Theatre History II (4)**

Survey of theatre from about 1700 to the present, including dramatists, stages, productions, and acting. A few representative plays will be read. Mandatory attendance at selected live performances. May include student participation in brief performance projects. *Satisfies the university general education requirement in the arts knowledge exploration area.*

**THA 305 History of Musical Theatre (4)**

A historical overview of opera and musical theatre.

**THA 310 Acting: The Role (2)**

Actors' synthesis of instrument and script as applied to creation of a role. Scene work drawn from significant plays in the realistic repertoire. May be repeated once for credit.

Prerequisite: THA 111.

**THA 311 Stage Dialects (2)**

Study of several of the stage dialects most commonly employed by American actors. Methodology for independent mastery of additional dialects.

Prerequisite: THA 111.

**THA 312 Acting: Shakespeare (2)**

Introduction to understanding and speaking Shakespeare's language. Scene and monologue work for selected plays.

Prerequisite: THA 310 and major standing.

**THA 320 Scenic Design (4)**

A study of the process of designing scenery for the stage, including conceptualization, drafting and rendering.

Prerequisite: THA 120, 124. THA 222, 223 strongly recommended.

**THA 321 Lighting Design (4)**

A study of the process of designing lighting for theatre and dance, including conceptualization, instrumentation, plotting, hanging and focusing, cueing and board operation.

Prerequisite: THA 120, 124. THA 222 recommended.

**THA 322 Costume Design (4)**

A study of the process of designing costumes for the stage, including research, conceptualization, materials, and rendering.

Prerequisite: THA 120, 124. THA 222, 223 strongly recommended.

**THA 323 Stage Makeup (2)**

A study of the process of designing makeup for the stage, including conceptualization, materials and application of two-dimensional designs.

Prerequisite: Theatre major or minor or permission of the instructor.

**THA 324 Survey of Architecture, Fashion, and Furniture (4)**

Survey of the 14 time periods most often used in theatrical productions. Each era will be considered through the architecture, fashion and furniture of the time. Connections will be made to the politics, music, art and literature of the era.

Prerequisite: Sophomore standing.

**THA 325 Costume History (4)**

Methods and styles of human dress from the Bronze Age to the present, including the roles of textiles and fibers and the importance of human decoration of clothing, skin and hair. Several traditional ethnic cultures will be explored along with Western dress. Visual examples will be provided.

Prerequisite: Sophomore standing.

**THA 330 Stage Management (2)**

A study of the duties and the organizational, communication and leadership skills required of the theatrical stage manager.

Prerequisite: THA 110 and 120.

**THA 331 Stage Manager Project (2)**

Student will serve as a stage manager or assistant stage manager for a departmental production under faculty supervision.

Prerequisite: THA 330. MUT 111 recommended.

**THA 340 Playwriting (4)**

Creative writing for the theatre, emphasizing fundamentals of scene, character and dialogue

development. Identical with ENG 308.

Prerequisite: RHT 160. English and theatre majors (or minors) or instructor permission.

**THA 405      Directing I (2)**

Theory and practice of play directing. Script interpretation, casting, staging, rehearsal techniques. Includes practical experience in directing scenes.

Prerequisite: THA 111, THA 120 or 121, THA 124.

**THA 406      Directing II (2)**

Continuation of Directing I. Culminates in the direction of a one-act play.

Prerequisite: THA 405.

**THA 407      Advanced Directing Project (2)**

Direction of a lengthy one-act or full-length theatre piece under faculty supervision.

Prerequisite: THA 406 and instructor permission.

**THA 410      Acting: Styles (2)**

Focuses on the requirements of various acting and period styles. Continued work on vocal and physical technique. Topics may vary. May be repeated once for credit.

Prerequisite: THA 310.

**THA 412      Auditions (2)**

Preparation for theatrical and commercial auditions. Includes selection and preparation of monologues.

Prerequisite: THA 310 and permission of instructor.

**THA 425      Advanced Design Projects (2)**

Advanced student design projects produced under faculty supervision in the areas of scenery, costumes, lighting, properties or sound. May be repeated for credit.

Prerequisite: Permission of instructor.

**THA 460      Special Topics: History and Literature of the Theatre (2 or 4)**

Study of topics of special interest chosen by department faculty and students. May be repeated for a total of eight credits.

Prerequisite: Permission of instructor.

**THA 470      Special Topics: Design Issues (2 or 4)**

Group study of topics of special interest chosen by department faculty and students. May be repeated for a total of eight credits.

Prerequisite: Will vary with topic. Permission of instructor.

**THA 480      Special Topics: Acting and Directing Issues (2 or 4)**

Group study of topics of special interest chosen by department faculty and students. May be repeated for a total of eight credits.

Prerequisite: Will vary with topic; permission of instructor.

**THA 482      Classical Theatre Study in Greece (6)**

Study, rehearse and perform classical plays in amphitheaters in Greece. Acting, voice, movement, modern Greek and theatre history. Visits to archeological sites and museums. Dates vary (approximately June/July). English is the language of instruction/performance. Additional fees apply.

Prerequisite: Audition/interview required, conducted early winter term prior. Consult Theatre Program Director.

**THA 490      Independent Study (1, 2, 3 or 4)**

Normally for juniors and seniors.

Prerequisite: Permission of instructor and department.

**THA 491      Internship (2 or 4)**

Experience working with professionals in a variety of performing arts settings.

Prerequisite: Junior standing and permission of supervising faculty.



## DANCE

### DAN 100 Ballet (2)

Technique of classical ballet. May be repeated for up to 16 credits.

### DAN 110 Modern Dance (2)

Technique of modern dance. May be repeated for up to 16 credits.

### DAN 120 Jazz Dance (2)

Technique of jazz dance. May be repeated for up to 16 credits.

### DAN 130 Conditioning for Dance (1)

An application of specific body conditioning techniques for the dancer. May be repeated for up to 4 credits.

### DAN 140 African Dance (0 or 2)

A participatory dance course that studies and performs traditional dances from different regions of Africa. Focus is on African dance techniques and the relationship between African dance and drumming.

### DAN 170 Dance Improvisation/Choreography I (2)

An exploration of movement through improvisation. Students will develop their own movements through dance ideas and problem solving.

### DAN 173 Dance History and Appreciation (4)

A historical survey of the development of theatre dance in Western culture. Course materials presented through lecture, discussion, films, slides and viewing of live dance performances. *Satisfies the university general education requirement in the arts knowledge exploration area.*

### DAN 175 Dance in American Culture (4)

Course surveys ethnic dance in America through lecture and demonstration. Dance guest artists/teachers representing different cultures will demonstrate and teach specific dance styles. The intent of the course is to aid students in understanding and appreciating ethnic diversity through dance. Satisfies the university ethnic diversity requirement. *Satisfies the university general education requirement in the arts knowledge exploration area. Satisfies the university general education requirement in U.S. diversity.*

### DAN 200 Ballet (2)

Technique of classical ballet. May be repeated for up to 16 credits.  
Prerequisite: DAN 100.

### DAN 210 Modern Dance (2)

Technique of modern dance. May be repeated for up to 16 credits.  
Prerequisite: DAN 110.

### DAN 220 Jazz Dance (2)

Technique of jazz dance. May be repeated for up to 16 credits.  
Prerequisite: DAN 120.

### DAN 221, 222 Tap Dance I and II (2 each)

Previous dance experience not required for 221.  
Prerequisite for 222: DAN 221 or equivalent.

### DAN 230 Special Dance Techniques (2)

Participatory dance course designed to provide experiences with current trends in dance technique at the beginning or intermediate level.  
Prerequisite: One dance course.

**DAN 299 Dance Workshop (1, 2, 3 or 4)**

A workshop designed to give students opportunities for participation in a variety of dance experiences led by performing artists. Normally offered in the spring and summer. Grade S/U.

**DAN 300 Ballet (2)**

Technique of classical ballet. May be repeated for up to 16 credits.

Prerequisite: DAN 200; major standing or permission of the instructor.

**DAN 310 Modern Dance (2)**

Technique of modern dance. May be repeated for up to 16 credits.

Prerequisite: DAN 210; major standing or permission of the instructor.

**DAN 320 Jazz Dance (2)**

Technique of jazz dance. May be repeated for up to 16 credits.

Prerequisite: DAN 220.

**DAN 330 Kinesiology for the Dancer (4)**

Analysis of movement from an anatomical and mechanical point of view with emphasis on problems of dance technique. Also includes prevention and treatment of dance-related injuries.

Prerequisite: Three dance courses.

**DAN 350 Creative Dance for Children (4)**

Methods and styles of teaching dance to children within schools, community centers and private studios.

**DAN 351 Children's Dance Theatre: Rehearsal and Performance (4)**

Choreography, rehearsal and performance of a dance program for children that tours local elementary schools.

Prerequisite: Permission of instructor.

**DAN 372 Choreography II (4)**

Theory of dance composition through reading, discussion, observation and experimentation. Lab required.

Prerequisite: DAN 170.

**DAN 373 Dance for Music Theatre I (2)**

An applied dance course that covers the techniques and styles of dance for music theatre prevalent from the 1920s until the present day.

Prerequisite: One dance technique course.

**DAN 374 Dance for Musical Theatre II (2)**

An applied dance course that continues the coverage of techniques and styles of dance for music theatre prevalent from the 1920s until the present day. Includes the study of ballet, jazz, folk and character dance as it pertains to music theatre.

Prerequisite: DAN 373.

**DAN 376 Oakland Dance Theatre (0 or 1)**

A technique- and performance-based laboratory course. Each student will participate in a dance performance during the semester, either as a performer or choreographer. May be repeated for a maximum of 8 credits. Graded S/U.

Prerequisite: Audition and permission of instructor.

**DAN 400 Ballet (2)**

Technique of classical ballet. May be repeated for up to 16 credits.

Prerequisite: DAN 300; major standing or permission of the instructor.

**DAN 402 Advanced Ballet: Partnering (2)****DAN 404 Advanced Ballet: Pointe (1)**

**DAN 410 Modern Dance (2)**

Technique of modern dance. May be repeated for up to 16 credits.

Prerequisite: DAN 310; major standing or permission of the instructor.

**DAN 420 Jazz Dance (2)**

Technique of jazz dance. May be repeated for up to 16 credits.

Prerequisite: DAN 320.

**DAN 423 Historical Dance (2)**

The study of Baroque, Renaissance and 19th century social dance styles. Course includes practical, theoretical and historical background.

**DAN 425 Issues and Trends in Dance (2)**

Readings, videos, and discussions pertaining to dance today. Topics will range from post modernism, dance theory, dance notation, dance education, multi-cultural influences, and computers and dance.

**DAN 428 Opportunities and Careers in Dance (2)**

Survey of business techniques and procedures, laws, copyrights, grant writing and accounting practices in the field of dance; a study of the production aspects of a dance performance; and a study of career opportunities related to dance.

Prerequisite: Permission of instructor.

**DAN 430 Special Topics (1, 2 or 4)**

Group study of current topics in dance.

Prerequisite: Three dance courses.

**DAN 441 Dance Pedagogy (4)**

Theory and practice of teaching dance technique with emphasis on ballet and modern dance. Includes study of age-appropriate and level-appropriate instruction, correct anatomical approach to dance training, and lesson and unit planning.

Prerequisite: DAN 300 and 310.

**DAN 470 Elementary Labanotation (4)**

An introduction of Laban's system of movement notation.

Prerequisite: 12 credits in dance, including DAN 173.

**DAN 472 Choreography III (4)**

Continuation of DAN 372 at a more advanced level. Lab required.

Prerequisite: DAN 327.

**DAN 475 Repertory Dance Company (0 or 1)**

Advanced technique and performance-based laboratory course. Student will participate in rehearsals and performances of dance works by various choreographers. May be repeated for a maximum of 12 credits. Graded S/U.

Prerequisite: Audition and permission of instructor.

**DAN 480 Senior Recital (1 or 2)**

A dance program choreographed and performed by a student in the final year of dance study.

Prerequisite: DAN 472. Senior standing and permission of instructor.

**DAN 490 Independent Study (1, 2 or 4)**

Permission of instructor. Graded S/U.

**DAN 497 Apprentice College of Teaching (2 or 4)**

Supervised participation in teaching an undergraduate course in dance, together with discussion of teaching methods and objectives.

Prerequisite: Permission of instructor.

**DAN 498 Apprenticeship (0 to 4)**

Students selected to apprentice with Eisenhower Dance Ensemble (EDE) earn credit depending upon frequency of participation. S/U grading only.

Prerequisite: Instructor permission.

# DEPARTMENT OF PHILOSOPHY

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341 O'DOWD HALL

(248) 370-3390

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**Chairperson:** *Paul R. Graves*

**Professors emeriti:** *David C. Bricker, Richard W. Brooks*

**Professor:** *Richard J. Burke*

**Associate professors:** *Paul R. Graves, John F. Halpin, Phyllis A. Rooney*

**Assistant professors:** *Elysa Koppelman, Mark Rigstad*

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

**Special lecturer:** *Patricia Trentacoste*

**Chief adviser:** *Elysa Koppelman*

Philosophy is one of the oldest yet often least understood of the liberal arts. The philosopher is interested in all aspects of human life, searching for the greatest possible clarity concerning the most fundamental questions. There is no one kind of philosophy; rather, there are many kinds, each with its own value.

Philosophy has always served two functions. The first is speculative, the attempt to formulate illuminating generalizations about science, art, religion, nature, society and any other important topics. The second is critical, the unsparing examination of its own generalizations and those of others to uncover unfounded assumptions, faulty thinking, hidden implications and inconsistencies. The study of philosophy is designed to encourage a spirit of curiosity, a sensitivity toward the uses of words, and a sense of objective assessment toward oneself as well as others. Competence in philosophy is solid training for advanced study in such fields as law, government and public administration, as well as the ministry and teaching.

The Department of Philosophy offers programs of study leading to the Bachelor of Arts degree with a major in philosophy, a modified major in philosophy with an international studies minor (South Asian studies program) or a concentration in linguistics or religious studies, and a minor in philosophy.

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

To earn the Bachelor of Arts degree with a major in philosophy, a student must complete a minimum of 40 credits in philosophy, including:

1. One semester of logic (PHL 102, 107 or 370; PHL 107 is strongly recommended, especially for those considering graduate work in philosophy)
2. One semester of ethics (PHL 103, 316 or 318)
3. Two semesters in history of Western philosophy (PHL 204 and 206)
4. One semester of recent American philosophy (PHL 308, 329, 333, 437 or 475)
5. At least 20 credits in PHL courses numbered 300 or above.
6. PHL 465

A student may substitute other courses for any of the above with the permission of the department chairperson. Students planning to apply for graduate work in philosophy should meet with a faculty member to discuss additional appropriate course work.

## Departmental honors

Departmental honors in philosophy are based upon three criteria: (a) general performance in philosophy courses, (b) written work in philosophy and (c) the ability to articulate philosophical ideas orally. First, students must achieve at least a 3.50 grade point average in philosophy courses. Second, those who do so and want to be considered for departmental honors should submit an example of their philosophical writing to the department chairperson early in the semester in which they expect to graduate. Normally this would be a substantial paper written in PHL 395, but two or three papers written in other philosophy courses will be acceptable. Third, if this work is judged to be of sufficiently high quality, it will be read by the rest of the department, and a conference with the student will be arranged to give him or her an opportunity to discuss the paper (or papers) further with the faculty. The decision to award honors will then be made by the faculty based on all three criteria.

## Requirements for a modified major in philosophy with a concentration in linguistics, B.A. program

Students with this modified major in philosophy must have a minimum of 24 credits in philosophy, including PHL 475, and 20 credits in linguistics including:

1. One semester of logic: PHL 102, 107 or 370
2. One semester of ethics: PHL 103, 316 or 318
3. One semester of metaphysics/epistemology: PHL 204, 205, 206, 308, 329, 333, 340, 401 or 437.
4. 20 credits in LIN or ALS courses, including: LIN 201, 303, 304 and either 403 or 404
5. LIN 307 or 407

## Requirements for a modified major in philosophy with a minor in South Asian studies or a concentration in religious studies, B.A. program

Students with either of these modified majors in philosophy must have a minimum of 24 credits in philosophy including 12 credits in courses numbered 300 or above:

1. One semester of logic: PHL 102, 107 or 370
2. One semester of ethics: PHL 103, 316 or 318
3. One semester of metaphysics/epistemology: PHL 204, 205, 206, 308, 329, 333, 340, 401 or 437.

For a modified major in philosophy with a minor in South Asian studies, students should see the *Center for International Studies* section of the catalog for the minor requirements. For a modified major in philosophy with a concentration in religious studies, students must include PHL 325 and are encouraged to take PHL 350. They should also consult *Other Academic Options, Concentration in Religious Studies* for the concentration requirements.

## Requirements for the liberal arts minor in philosophy

To earn a minor in philosophy, students must complete a minimum of 20 credits in philosophy, including:

1. One semester of logic: PHL 102, 107 or 370
2. One semester of ethics: PHL 103, 316 or 318

3. One semester of metaphysics/epistemology: PHL 204, 205, 206, 308, 329, 333, 340, 401, 437 or 475
4. At least 8 credits in courses numbered 300 or above.

## 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

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 description.

### PHL 101 Introduction to Philosophy (4)

Study of the main types and problems of Western philosophy. Readings are chosen to illustrate the development of Western thought from the ancient Greeks to the present. Offered every semester. *Satisfies the university general education requirement in the Western civilization knowledge exploration area for 2005-2006.*

### PHL 102 Introduction to Logic (4)

The relationship between conclusions and statements given in support of them. In addition to elementary deductive and inductive logic, topics may include analysis of ordinary arguments, argument by analogy and informal fallacies. Offered every semester. *Satisfies the university general education requirement in the formal reasoning knowledge foundation area for 2005-2006.*

### PHL 103 Introduction to Ethics (4)

Major ethical analyses of right and wrong, good and evil, from the ancient Greeks to the present. Appeals to custom, theology, happiness, reason and human nature will be examined as offering viable criteria for judgments on contemporary issues of moral concern. Offered every semester. *Satisfies the university general education requirement in the Western civilization knowledge exploration area for 2005-2006.*

### PHL 107 Introduction to Symbolic Logic (4)

Formal or symbolic logic is a study of what makes deductive arguments valid, employing symbols to represent sentences, words, phrases, etc. in order to reveal the formal structure of the arguments. Offered every year. *Satisfies the university general education requirement in the formal reasoning knowledge foundation area for 2005-2006.*

### PHL 204 Ancient Greek Philosophy (4)

The development of philosophical thought in Greece, from its beginning around 600 B.C.E. to the Hellenistic period. Emphasis on Plato and Aristotle. *Satisfies the university general education requirement in the Western civilization knowledge exploration area for 2005-2006.*

### PHL 205 Medieval Philosophy (4)

The development of Christian philosophical thought in Europe, from the first to the 15th centuries. Emphasis on Augustine and Thomas Aquinas. *Satisfies the university general education requirement in the Western civilization knowledge exploration area for 2005-2006.*

### PHL 206 Early Modern Philosophy (4)

The development of philosophical thought in Europe in the 17th and 18th centuries. Emphasis on Descartes, Locke, Hume and Kant. *Satisfies the university general education requirement in the Western civilization knowledge exploration area for 2005-2006.*

### PHL 300 Topics in Philosophy (4)

One philosophical topic or problem at an intermediate level of difficulty. Topic to be announced in the *Schedule of Classes* for each semester.  
Prerequisite: One philosophy course.

**PHL 305      Philosophy of Gender (4)**

Philosophical issues relating to gender are explored. Different approaches toward dealing with sexism will be examined, as part of an ongoing analysis of what constitutes human nature, freedom, equality and the relationship between the individual and the state. Identical with WS 307.

Prerequisite: One course in philosophy or in women's studies.

**PHL 307      European Philosophy since Kant (4)**

Among the major philosophers included are Hegel, Marx, Nietzsche and Sartre. Several types of Marxism and existentialism will be distinguished and their influence in this country will be discussed. Offered every two years.

Prerequisite: One philosophy course.

**PHL 308      Twentieth Century British and American Philosophy (4)**

The issues that have dominated Anglo-American philosophy in the 20th century. The course will trace the history that has led Americans and Britons to look at philosophy in a new way, appropriate to our scientific world-view.

Prerequisite: One course in logic (PHL 107 recommended) or PHL 206.

**PHL 309      Philosophy of Sexuality (4)**

Philosophical issues related to sex, including ethical issues and clarification of contested concepts such as homosexuality, consenting adults, and pornography. Offered every other year.

Prerequisite: One philosophy course.

**PHL 310      Philosophy of Rhetoric (4)**

The problem of "objectivity," the distinction between persuasion and proof, and the consequences of denying such a distinction. Readings include Plato's *Gorgias*, Aristotle's *Rhetoric*, and modern discussions of rhetoric and society. Offered every other year. Identical with COM 310.

Prerequisite: Junior standing.

**PHL 311      Philosophy of International Relations: Law, War and Peace (4)**

Considers competing theories of global ethics, diplomacy, international law, just warfare, nationalism, military duty, disarmament, pacifism, non-violent resistance, civil strife, and terrorism. Offered every two years.

Prerequisite: One course in philosophy or political science, PHL 103 recommended.

**PHL 312      Aesthetics (4)**

The nature of aesthetic experience and aesthetic judgment in the appreciation of nature and art. Major theories of the creation and structure of works of art, and the logic and semantics of aesthetic judgment. Offered every other year.

Prerequisite: One philosophy course, or a course in art, music or literature.

**PHL 316      Ethics in Business (4)**

Review of basic ethical theory, and application to typical moral problems in business practices and institutions.

Prerequisite: Junior standing.

**PHL 318      Ethics and the Health Sciences (4)**

Central ethical issues in modern health care and research. Included are the distribution and allocation of health resources, the right to life and death, "informed consent" and eugenics. Offered every other year.

Prerequisite: Junior standing.

**PHL 319      Philosophy of Law (4)**

The nature of law and legal obligation, with emphasis on the relation of law, coercion and morality. Attention is also given to such issues as the nature of legal reasoning, the justifiability of civil disobedience and the justification of punishment. Offered every other year.

Prerequisite: Junior standing; PHL 103 or PS 241 recommended.

**PHL 321      Political Philosophy (4)**

The meanings of central concepts in political philosophy, such as justice, freedom and authority, are examined through readings in classical political philosophers and crucial problems. Offered every other year.

Prerequisite: One philosophy course or junior standing; PHL 103 strongly recommended.

**PHL 325      Philosophy of Religion (4)**

Examination of arguments for and against the existence of God, the nature of religious language, and relations between religion and philosophy. Offered every other year. Identical with REL 325.

Prerequisite: One philosophy course or junior standing.

**PHL 329      Philosophy of Science (4)**

Philosophical problems arising from critical reflection on the sciences. Typical topics: the structure of scientific explanation, the nature of scientific laws and theories, causality and confirmation. Offered every other year.

Prerequisite: One course in philosophy or one in natural science.

**PHL 330      Topics in the Philosophy of Science (4)**

Specialized topics such as philosophy of biology, philosophy of the social sciences, philosophy of technology, or the history and philosophy of science will be offered periodically. Topic to be announced in the *Schedule of Classes*.

Prerequisite: Junior standing and one course in philosophy or consent of instructor.

**PHL 331      Philosophy of Biology (4)**

Philosophical examination of issues arising out of modern biology such as the nature of species, the mechanisms of natural selection, and the implications of evolutionary theory for topics such as philosophy of mind, epistemology, social and political theory, ethics and medicine.

Prerequisite: One course in philosophy or one course in biology; PHL 329 recommended.

**PHL 333      Theories of Knowledge (4)**

Critical examination of knowledge claims and of the types of justification given in their support. Typical topics: skepticism, empiricism, rationalism, believing and knowing, intuition and limits of knowledge. Offered every other year.

Prerequisite: One philosophy course; PHL 206 recommended.

**PHL 340      Metaphysics (4)**

Study of selected influential attempts to characterize the basic features of the world. Emphasis on reformulations of metaphysical problems in the light of modern advances in scientific knowledge. Offered every other year.

Prerequisite: One philosophy course; PHL 204 recommended.

**PHL 350      Philosophies and Religions of Asia (4)**

The major religions of India, China and Japan with emphasis on their philosophical significance. The course will cover Hinduism, Jainism, Confucianism, Taoism and Buddhism, both the ancient traditions and some modern developments. Offered every other year. Identical with REL 350.

Prerequisite: One philosophy course or junior standing.

**PHL 352      Indian Philosophy (4)**

The presuppositions and doctrines of India's major philosophic systems. Realistic, idealistic, pluralistic, dualistic and monistic systems will be considered, with some reference to contemporary developments. Offered every other year.

Prerequisite: PHL 350 or IS 240.

**PHL 370      Advanced Symbolic Logic (4)**

Standard first-order symbolic logic, emphasizing quantification theory and including identity theory and logical semantics. The logical system is approached both as a formal system and as a theoretical analysis of human reasoning. Offered every other year.

Prerequisite: PHL 102 or PHL 107 or CSE 130 or MTH 012 or equivalent.

**PHL 390      Directed Readings in Philosophy (2)**

Tutorial on a topic not included in regular courses, primarily (but not exclusively) for majors. Students should consult with the department chairperson before approaching a faculty member with a topic. Graded S/U.

Prerequisite: One philosophy course at Oakland and written permission of instructor; junior standing.



**PHL 395 Independent Study in Philosophy (4)**

Tutorial on a topic not included in regular courses, primarily (but not exclusively) for majors. In addition to reading and consultation, the student will write a substantial term paper. Cannot be repeated or counted toward any major or minor requirement other than degree credit without prior written approval from department chairperson.

Prerequisite: One philosophy course at Oakland and written permission of department chair, form available in 341 ODH; junior standing.

**PHL 401 Study of a Major Philosopher (4)**

A study of the works of one major philosopher. The specific philosopher will vary, but courses on Plato, Aristotle and Kant will be offered every few years. May be repeated for credit.

Prerequisite: One philosophy course; PHL 204, 205, 206, 307 or 308 recommended, whichever is relevant.

**PHL 437 Philosophy of Mind (4)**

Selected topics or works in the philosophical literature about mind. Some topics are: the nature of psychological explanation, the relation of mind and body, thinking, emotions, concepts, consciousness and remembering. Offered every other year.

Prerequisite: One philosophy or one psychology course; junior standing.

**PHL 465 Seminar on a Philosophical Topic (4)**

One philosophical topic or problem at an advanced level of difficulty, normally requiring considerable background in philosophy. Topic and prerequisites to be announced in the *Schedule of Classes* for each semester.

Prerequisite: 28 credits in philosophy or permission of the instructor.

**PHL 475 Philosophy of Language (4)**

Philosophical theories of natural language structure. Emphasis on views about what meaning is and how we are to explain our ability to communicate with one another. Offered every other year. Identical with LIN 475.

Prerequisite: Junior standing; LIN 207 or one course in logic (PHL 107 strongly recommended).

**PHL 497 Apprentice College Teaching (4)**

Open to a well-qualified philosophy student who is invited by a faculty member to assist in a regular college course, usually as preparation for a career as a professor of philosophy.

# DEPARTMENT OF PHYSICS

190 SCIENCE AND ENGINEERING BUILDING

(248) 370-3416

Fax: (248) 370-3408

**Interim chairperson:** *Andrei Slavin*

**Professors emeriti:** *Abraham R. Liboff, John M. McKinley, Ralph C. Mobley, Paul A. Tipler, W. D. Wallace, Robert M. Williamson*

**Distinguished professor:** *Michael Chopp*

**Professors:** *David Garfinkle, Andrei Slavin, Gopalan Srinivasan, Norman Tepley, Uma Devi Venkateswaran*

**Associate professors:** *Ken Elder, Alberto Rojo, Bradley J. Roth, Yang Xia*

**Assistant professor:** *George Martins*

**Adjunct associate professors:** *Stephen L. Brown, James R. Ewing, Robert A. Knight, S. David Nathanson, Joseph S. Rosenshein*

**Adjunct professors:** *Carl Bleil, Peter M. Corry, Howard J. Dworkin, Adrian Kantrowitz, Jae Ho Kim, Joseph V. Mantesse, Harold Portnoy, Paul D. Stein, John Wai-Chiu Wong*

**Adjunct assistant professors:** *Elwood P. Armour, Susan M. Bowyer, Kenneth Jenrow, Quan Jiang, Zhang Zheng-Gang*

**Adjunct instructor:** *Ray A. Carlson*

**Lecturers:** *Rao Bidthanapally, Kapila Clara Castoldi, Sally K. Daniel*

**Chief adviser:** *David Garfinkle*

Courses within the Department of Physics are grouped into two categories — preprofessional career programs and experiences in science for students with broad interests in contemporary human culture. The latter are strongly recommended for students planning any of a wide range of careers, including law, business, criminology, art history, music, government, education and journalism. High school students intending to major in physics should refer to the *Admissions* section of the catalog for specific preparation requirements.

Programs of study lead to the Bachelor of Science degree with majors in physics, medical physics and engineering physics, Bachelor of Arts degree with a major in physics, Master of Science degree in physics, and Doctor of Philosophy degree in biomedical sciences with specialization in medical physics.

The Bachelor of Science in physics is intended for students who plan to become professional scientists. It qualifies students for graduate studies in physical sciences or research positions in government and industry. Students pursuing this degree should consult with faculty members on different available specialties.

The Bachelor of Arts in physics is primarily designed for students who desire a broader, less professionally specialized background in physics. The minor in physics is available for students who want to supplement their work in other fields with an introduction to physics. A secondary teaching minor in physics is available.

The Bachelor of Science in medical physics is based on a group of physics courses plus relevant biology, chemistry and mathematics courses. In their senior year, these students

take “Physics of Radiology” and “Physics of Nuclear Medicine.”

The Bachelor of Science in engineering physics, which is offered jointly with the School of Engineering and Computer Science, is intended for well-qualified students who seek a broad education in physics and mathematics along with basic preparation in engineering.

## Advising

**Chief adviser:** *David Garfinkle*

Advisers in the various physics fields are professors David Garfinkle (astrophysics), Bradley Roth (medical physics, biophysics), Andrei Slavin (engineering physics, geophysics), Gopalan Srinivasan (materials physics) and Uma D. Venkateswaran (secondary teaching). Independent research projects are available in each area.

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

To earn the Bachelor of Arts degree with a major in physics, students must complete:

1. PHY 151, 152, 158, 371, 317
2. An additional 16 credits in physics, with at least 12 credits in courses numbered above 200
3. MTH 154, 155, 254
4. Eight additional credits in chemistry, mathematics and physics, but not CHM 300.

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

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

1. 20 required credits in physics (PHY 151, 152, 158, 317, 351, 371)
2. A minimum of 22 elective credits in physics at or above the 200 level, including at least 2 credits of laboratory course work. PHY 361 and 381 are strongly recommended for students planning graduate work in physics
3. MTH 154, 155, 254 and either MTH 256 or APM 257
4. 10 credits of chemistry at a level not below CHM 157, but not CHM 300.

## Requirements for the major in medical physics, B.S. program

To earn the Bachelor of Science degree with a major in medical physics, students must complete:

1. PHY 151, 152, 158, 317, 318, 325, 326, 341, 347, 351, 371, 372 and 381
2. MTH 154, 155, 254, STA 226 and APM 257
3. CHM 157 and 158 plus 4 additional credits at a level not below CHM 157 (CHM 201 may be taken for credit, but not CHM 300)
4. BIO 111, 205 and 207.

## Secondary Teacher Education Program (STEP): Physics

The Secondary Teacher Education Program (STEP) at Oakland University is an extended program of study leading to certification. Students in this program may complete the requirements for a B.A. degree in physics as listed below or may complete the requirements for the B.S. degree, which requires 14 additional credits. Generally, eligibility for admission to the STEP requires a GPA of 3.00 in both the major and minor, and

an overall GPA of 2.80. No single major or minor course grade may be below 2.0. Second undergraduate degree candidates completing major and/or minors may be required to complete additional coursework at Oakland University beyond the stated minimums.

1. PHY 151, 152, 158, 317 and 371 (16 credits)
2. 12 credits chosen from: PHY 325, 331, 341, 351, 361, 366, 372, 381, 421
3. Four laboratory credits chosen from: PHY 306, 318, 347, 418, 487, 490
4. MTH 154, 155 and APM 257 (11 credits)
5. CHM 157 and 158 (10 credits)
6. Four credits of biology at or above the level of BIO 111, but not BIO 300
7. Four credits of earth science: PHY 106, 307 or 308
8. Four credits relating science, technology, and society: AN 300; ENV 308, 312; PHY 115, 127.

A program in STEP must also include a 20-28 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455 and SE 501 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 Physics and the School of Education and Human Services Advising Office (363 Pawley Hall, 248-370-4182).

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

**Coordinators:** *Andrei Slavin (Physics), Hoda Abdel-Aty-Zohdy (Engineering)*

To earn the Bachelor of Science degree with a major in engineering physics (128 credits), students must complete:

1. MTH 154, 155, 254; and APM 257
2. CHM 157 or 167
3. PHY 151, 152, 158, 317, 351, 361 and 371, plus one of the following: PHY 331, 366, 381 or 472
4. CSE 141 and 171; EE 222 and 326; ME 221 and 241; and SYS 317 and 325
5. A professional option typically consisting of two courses plus a related engineering design elective course
6. At least 7 to 8 credits from the following list: MTH 256; APM 263; PHY 318, 331, 366, 372, 381, 418, 472, 482; EE 345, 351, 378, 384; ME 331, 361; or any 400-level EGR, EE, ME or SYS courses
7. Free electives (7 to 8 credits), which may be used to satisfy writing proficiency. For limitations on free electives see the School of Engineering and Computer Science policy on free electives.

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

In addition to the previously stated requirements, satisfactory completion of the program requires an average grade of at least 2.0 in the mathematics, science, engineering and computer science courses taken to meet program requirements.

## Departmental honors

Departmental honors may be awarded to students on the basis of high academic achievement and either independent research or meritorious service to the Department of Physics.

## Requirements for the liberal arts minor in physics

To earn a minor in physics, students must complete a minimum of 20 credits in physics, including PHY 101-102 or 151-152, 158 and at least 8 credits in physics courses numbered 300 or above.

## Requirements for the secondary teaching minor in physics

To earn a secondary teaching minor in physics, students must complete PHY 101-102 or 151-152, 158 and 10 credits in physics courses numbered 300 or above, including PHY 371. Non-science majors i.e., other than biology, chemistry and physics majors, must complete an additional 4 credits in science for a total of 24 credits. In addition SED 427, Methods of Teaching Secondary Students, is required.

## 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*.

### PHY 101      General Physics I (4)

Mechanics, heat, mechanical waves and sound. Calculus is not required. Offered fall, winter, spring. Prerequisite: High school algebra and trigonometry or equivalent. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

### PHY 102      General Physics II (4)

Electricity and magnetism, light, relativity, atomic and nuclear physics. Offered fall, winter, summer. Prerequisite: PHY 101.

### Each of the following courses is designed for nonscience majors and minors:

#### PHY 104      Astronomy: The Solar System (4)

The sun, planets, space travel, the search for extraterrestrial life. Offered fall only. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

#### PHY 105      Astronomy: Stars and Galaxies (4)

Nature and evolution of stars, the Milky Way and other galaxies, cosmology. Offered winter only. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

#### PHY 106      Earth Science/Physical Geography (4)

The earth: its structure, history, and the geography of its surface. Topics include: the theory of continental drift, rocks and minerals, earthquakes, volcanoes, mountains, rivers, deserts, weather, climate, the geomagnetic field, and the earth's resources. Offered fall only. Identical with GEO 106. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

#### PHY 115      Energy (4)

Basic physical principles of energy, sources, transmission and distribution. Political, economic and ecological considerations.

Prerequisite: High school algebra.

#### PHY 120      The Physics of Everyday Life (4)

Concepts of physics taught with reference to specific everyday observations or devices such as automobiles, televisions, radios, and microwave ovens. Topics include the laws of motion, fluids, heat, thermodynamics, waves, electric and magnetic fields, optics and nuclear physics. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

**PHY 127 Human Aspects of Physical Science (4)**

Primarily for the student wishing to explore the interaction of the physical and social sciences. Format varies to reflect the impact of physics on contemporary life, particularly on politics, economics and behavior, as well as environment and well-being. Offered fall only.

Prerequisite: High school algebra.

**PHY 131 The Physics of Cancer, Stroke, Heart Disease, and Headache (4)**

The physical basis for a variety of diseases and disorders, as well as diagnostic and therapeutic techniques will be discussed by a number of medical physics faculty and guest lecturers.

Prerequisite: High school algebra.

**SCI 100 Physical Sciences in Life, the World and Beyond (4)**

Interdisciplinary physical science course for non-science majors to enhance their scientific literacy and experience the scientific approach to problem solving in active-learning classrooms and hands-on and computer laboratories. Modules on the science of everyday life, science of the microscopic world, and the earth and beyond. Offered every term. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area for 2005-2006.*

Prerequisite: MTH 012 with a grade of 2.0 or higher or placement in a higher level mathematics course.

**The following courses are designed primarily for the physics major and for majors in the other sciences and engineering:**

**PHY 151 Introductory Physics I (4)**

Classical mechanics and thermodynamics. For science, mathematics and engineering students. Offered fall, winter, spring. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area for 2005-2006.*

Prerequisite: MTH 154.

**PHY 152 Introductory Physics II (4)**

Sound, light, electricity and magnetism. Offered fall, winter, summer.

Prerequisite: PHY 151. Corequisite: MTH 155.

**PHY 158 General Physics Laboratory (2)**

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

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

**PHY 290 Introduction to Research (2 or 4)**

Independent study and/or research in physics for students with no research experience.

Prerequisite: Written agreement of a physics faculty supervisor.

**PHY 304 Astrophysics I (4)**

Application of elementary physics to the study of planets, stars, galaxies and cosmology. Offered fall odd-numbered years only.

Prerequisite: PHY 102 or 152, and MTH 254.

**PHY 305 Astrophysics II (4)**

Continuation of PHY 304. Offered winter of even-numbered years only.

Prerequisite: PHY 304.

**PHY 306 Observational Astronomy (2)**

A lecture/laboratory course using the Oakland University observatory and providing basic training in astronomical techniques.

Prerequisite: PHY 158 or 104 or 105 and permission of instructor.

**PHY 307 Geophysics (4)**

The application of physics concepts to the study of the earth, gravity and its anomalies, geomagnetism, earth-sun energy, geochronology and seismic wave propagation. Offered every other year in fall only.

Prerequisite: PHY 102 or 152, and MTH 254. PHY 106 highly recommended.

**PHY 308 Physical Oceanography (4)**

Physical oceanography and meteorology; composition and structure of the atmosphere and oceans. Interactions of sea water with the atmosphere, the continents and man. Offered every other year in winter only.

Prerequisite: PHY 102 or 152, and MTH 254.

**PHY 317 Modern Physics Laboratory (2)**

Optics and atomic physics experiments. Offered fall only.

Prerequisite: PHY 158. Corequisite: PHY 371.

**PHY 318 Nuclear Physics Laboratory (2)**

Nuclear physics experiments. Offered winter odd-numbered years only.

Prerequisite: PHY 158. Corequisite: PHY 372.

**PHY 325 Biological Physics (4)**

Applications of physics to biology, including biomechanics, fluid dynamics, statistical mechanics, diffusion, bioelectricity, biomagnetism, feedback and control.

Prerequisite: PHY 102 or 152, and MTH 155.

**PHY 326 Medical Physics (4)**

Applications of physics to medicine, including signal analysis, imaging, x-rays, nuclear medicine and magnetic resonance imaging.

Prerequisite: PHY 102 or 152, and MTH 155.

**PHY 331 Optics (4)**

Geometrical optics, optical instruments, wave theory of reflection, refraction, interference, diffraction and polarization of light. Offered winter even-numbered years only.

Prerequisite: PHY 102 or 152, and MTH 155. Corequisite: MTH 254.

**PHY 341 Electronics (4)**

Electronics for scientists, circuit theory, transistors, power supplies, linear amplifiers, oscillators. Offered winter odd-numbered years only.

Prerequisite: PHY 158 and MTH 155, and either PHY 102 or 152. Concurrent enrollment in PHY 347 is recommended.

**PHY 347 Electronics Laboratory (2)**

Circuits and electronics experiments. Offered winter odd-numbered years only.

Corequisite: PHY 341.

**PHY 351 Intermediate Theoretical Physics (4)**

Topics and techniques common to intermediate physics courses. Includes analytical and numerical (computer) solution techniques, DIV, GRAD, CURL and Fourier analysis. Offered fall only.

Prerequisite: PHY 102 or 152, and MTH 155.

**PHY 361 Mechanics I (4)**

Applications of Newton's laws to particles, systems of particles, harmonic oscillators, central forces, accelerated reference frames and rigid bodies. Offered fall only.

Prerequisite: PHY 102 or 152, and MTH 254.

**PHY 366 Vibrations and Waves (4)**

Oscillations; mechanical waves in one, two and three dimensions; sound. Offered winter odd-numbered years only.

Prerequisite: PHY 152, MTH 155.

**PHY 371 Foundations of Modern Physics (4)**

Introduction to relativity, kinetic theory, quantization and atomic physics. Additional topics chosen from physics of molecules, solids, nuclei and elementary particles. Offered fall only.

Prerequisite: PHY 102 or 152, and MTH 155; concurrent enrollment in PHY 317 is recommended.

**PHY 372 Nuclear Physics (4)**

Radioactivity, interaction of radiations with matter, accelerators, nuclear reactions, fission and fusion. Offered winter even-numbered years only.

Prerequisite: PHY 102 or 152, and MTH 155; concurrent enrollment in PHY 318 is recommended.

**PHY 381 Electricity and Magnetism I (4)**

Maxwell's equations and the experimental laws of electricity and magnetism. Potential theory, boundary conditions on the electromagnetic field vectors, field energy. Dielectrics, conductors and magnetic materials. Offered winter only.

Prerequisite: PHY 351 and MTH 254. APM 257 desirable.

**PHY 400 Undergraduate Seminar (1)**

Graded S/U.

Prerequisite: Permission of instructor.

**PHY 405 Special Topics (2, 4 or 6)**

Prerequisite: Permission of department.

**PHY 418 Modern Optics Laboratory (2)**

Experiments illustrating geometric and physical optics principles, lasers, fiber optics, holography and spectroscopy. Equipment used ranges from simple to sophisticated lasers, interferometers, digital cameras and a Raman spectrometer. Offered winter even-numbered years only.

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

**PHY 421 Thermodynamics (4)**

The zeroth, first and second laws of thermodynamics with applications to pure substances. Introduction to the kinetic theory of gases and to statistical mechanics. Offered winter odd-numbered years only.

Prerequisite: PHY 361 and APM 257.

**PHY 431 Lasers and Applications (4)**

Interaction of radiation and atomic systems, basic principles and properties of laser light, types of lasers, applications in physics, optical communication, industry and medicine. Offered fall only.

Prerequisites: PHY 331 or PHY 371 or permission of instructor.

**PHY 445 Medical Instrumentation (2)**

Detailed examination of the scientific instrumentation used in modern medical diagnostic and therapeutic practice.

Prerequisite: Approval of department, PHY 371, 381 and 347.

**PHY 470 Relativity (4)**

Special relativity in mechanics and electromagnetism. Introduction to general relativity and gravitation. Offered winter even-numbered years only.

Prerequisite: PHY 361 or 371 or 381.

**PHY 472 Quantum Mechanics I (4)**

Principles of nonrelativistic quantum mechanics, Schrodinger wave equation, expectation values of energy, position, momentum and angular-momentum operators, spin, perturbation theory, identical particles. With applications to atomic systems. Offered winter only.

Prerequisite: PHY 351, 361, 371 and APM 257.

**PHY 482 Electricity and Magnetism II (4)**

Multipole fields, solutions of Laplace and Poisson equations, electromagnetic waves in insulators and conductors, radiation and the derivation of the laws of optics from Maxwell's equations. Offered fall.

Prerequisite: PHY 381, APM 257 and MTH 256.

**PHY 487 Electricity and Magnetism Laboratory (2)**

Experiments in electricity and in magnetism, including coupled circuits, bridges, creation and detection of electric and magnetic fields, the geomagnetic field, spectrum analysis, transmission lines and microwaves. Offered winter only.

Corequisite: PHY 381.

**PHY 490 Independent Study and Research (2, 4 or 6)**

Prerequisite: Four credits of 300-level physics and written agreement of a physics faculty supervisor.



# DEPARTMENT OF POLITICAL SCIENCE

418 VARNER HALL

(248) 370-2352  
Fax: (248) 370-4299

**Chairperson:** *John S. Klemanski*

**Professors emeriti:** *Thomas W. Casstevens, Edward J. Heubel, Roger H. Marz, James R. Ozinga*

**Distinguished professor:** *Sheldon Appleton*

**Professors:** *Robert J. Goldstein, Vincent B. Khapoya, John S. Klemanski*

**Associate professors:** *Paul J. Kubicek, Emmett Lombard, William A. Macauley, Dale K. Nesbary, C. Michelle Piskulich, J. Patrick Piskulich, Martha T. Zingo*

**Assistant professors:** *David Dulio, Peter Trumbore*

**Adjunct assistant professors:** *Annette Graziani-Lozen, Robert Mourning, Donna Petras, Anthony Tersigni*

**Chief adviser:** *Emmett Lombard*

**Criminal justice adviser:** *Dale K. Nesbary*

**Internship director:** *Emmett Lombard*

Political science offers a concentrated and systematic study of politics at all levels of government and in many different cultural and national settings. Policy making, law, political behavior, administration, international politics, foreign governments, and theories and philosophies of government are among the many topics covered in these courses. The general educational aim is to increase students' awareness and understanding of the broad realm of politics and government. Many students electing this major wish to prepare for careers in public service, law, practical politics, or the teaching of government and social studies.

The Bachelor of Arts degree with a major in political science is the department's broadest program and is appropriate for students with an interest in public affairs or students who intend to enter law school or graduate school. The department also offers a major in public administration leading to the Bachelor of Science degree. This program is designed to provide appropriate analytical skills and prepare students for direct entry into public service or for specialized graduate programs in public administration and public policy. The Master of Public Administration degree is also offered by the department (see the *Oakland University Graduate Catalog*). The Master of Public Administration degree is accredited by the Commission of Peer Review and Accreditation and is a member of the National Association of Schools of Public Affairs and Administration (NASPAA).

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

To be admitted to major standing, students must complete the following core program: PS 100; 114 or 131; and 303. Credit toward the major will be allowed only for courses completed with a grade of 2.0 or higher.

The major requires a minimum of 40 credits in political science, distributed as follows:

1. The core program (12 credits): PS 100; 114 or 131; and 303. PS 303 should be taken in the sophomore year if possible and no later than the junior year.
2. At least one 4-credit course must be selected from each of the three fields of political science for a total of 12 credits:

**American politics:** PS 300, 301, 302, 305, 307, 311, 323, 324, 326, 327, 340, 341, 342, 350, 353, 470, 478 and 484;

**Comparative and international politics:** PS 314, 315, 317, 318, 329, 330, 331, 332, 333, 334, 335, 337, 338, 354, 472 and 476;

**Political theory and political thought:** PS 320, 321, 371, 372, 373, 374, 377 and 480.

3. The remaining 16 credits in political science are electives, with the following restrictions: only 4 credits of PS 110 and no more than a total of 12 credits from PS 390, 458 and 490 will be accepted in the major.

### **Requirements for the liberal arts major in public administration and public policy, B.S. program**

To be admitted to major standing, students must complete the following core program: PS 100; 114 or 131; and 303. Credit toward the major will be allowed only for courses completed with a grade of 2.0 or higher.

The major requires a minimum of 50 credits, distributed as follows:

1. The core program (12 credits): PS 100; 114 or 131; and 303. PS 303 should be taken in the sophomore year if possible and no later than the junior year.
2. The sequence of departmental courses (26 credits). Required are: PS 257, 350, 353, 453, 454 and 458. Enrollment in PS 458 (8 credits), the Public Affairs Internship, must be preceded by consultation with the director of internships. In those cases where the internship requirement is waived, the student must elect an alternative 8 credits of political science, subject to approval of the department's chief academic adviser.
3. The corequisites (12 credits). The following courses are required: ACC 200, and ECN 200 and 201 (ECN 210 — 6 credits — is acceptable in lieu of 200 and 201).

For students contemplating graduate school, MTH 122 and 141 are strongly recommended.

### **Requirements for liberal arts minor in political science**

To earn a minor in political science, students must complete a minimum of 20 credits in political science, including PS 100, 114 or 131, and at least 8 credits at the 300-400 level. Credit toward the minor will be allowed only for courses completed with a grade of 2.0 or higher. Note: students majoring in public administration who wish to earn a minor in political science must complete a minimum of 16 additional credits in political science beyond those required for a major in public administration.

### **Requirements for the secondary teaching minor in political science**

The secondary teaching minor in political science requires 24 credits in political science courses, including PS 100, PS 301 (or 302 or 342), and one course from any four of the following six groupings: state and local government (PS 305 or 307); political behavior (PS 323 or 324); public administration and public policy (PS 350 or 353); international

relations and comparative politics (PS 114 or 131 or 314); political philosophy (PS 371, 372 or 373); and cross-cultural perspectives (PS 311). In addition SED 427, Methods of Teaching Secondary Students, is required. Generally, a cumulative grade point average of 3.00 is required in courses included in the minor, with no single course grade below 2.0. Second undergraduate degree candidates completing the minor may be required to take additional courses at Oakland University beyond the stated minimums. Students must consult with the secondary education minor adviser in the department.

## Departmental honors and scholarships

Departmental honors will be awarded competitively to selected students from among those who have attained an overall grade point average of at least 3.30 and a minimum grade point average of 3.70 for courses in political science. Scholarships are available annually to qualified department majors.

## Requirements for a major in political science with other concentrations

Students in political science may pursue a regular major in political science with a number of interdepartmental concentrations. These include, among others, American studies, applied statistics, human and industrial relations, Michigan studies, criminal justice, and women's studies.

## Recommended courses for prelaw students

It is recommended that political science majors interested in law school elect the law-related courses given by the department: PS 241 Law and Politics, PS 340 U.S. Constitutional Law, PS 341 Civil Rights and Civil Liberties, PS 342 The Judicial Process. For advice in planning for law school, contact the department's prelaw adviser, Martha T. Zingo. The student should also read the *Prelaw Studies* section of this catalog.

## Paralegal Program

In cooperation with the School of Business Administration's Center for Executive and Continuing Education, the Department of Political Science in the College of Arts and Sciences sponsors courses that prepare students for the paralegal field. To earn the certificate in this American Bar Association (ABA) approved program, students must take ten foundation courses and three legal specialty courses, and serve an internship in a legal setting.

A student enrolled in the non-credit paralegal program, who also wishes to major in political science, may offer up to 8 credits of this course work toward the 40 credits required for the major. A student who wishes to minor in political science may offer up to 4 credits of this course work toward the 20 credits required for the minor. For a course to qualify for both the degree and the Paralegal Program certificate, concurrent registration for the course in both programs is required. Students enrolled in the paralegal program may also offer these courses as electives to any degree program. Students who take paralegal courses for certificate credits, but who wish to convert those credits to a degree at Oakland, should consult with a political science adviser. Courses approved to date by the Committee on Instruction are listed below. For specific details on policies and procedures for this program, request a brochure from the Center (238B Elliott Hall, 248-370-3128).

*Permission of the Department of Political Science is required to enroll in any of the courses listed below. Only students who have been admitted to the paralegal program may enroll in these courses.*

PS 379	(CE 2500)	Introduction to the Legal System (2)
PS 380	(CE 2506)	Substantive Law: Contracts (2)
PS 381	(CE 2507)	Substantive Law: Torts (2)
PS 382	(CE 2510)	Legal Research and Writing I (2)
PS 383	(CE 2511)	Legal Research and Writing II (2)
PS 384	(CE 2520)	Real Property Transactions (2)
PS 385	(CE 2530)	Business Organizations (2)
PS 386	(CE 2550)	Probate Administration (2)
PS 388	(CE 2568)	Estate Planning and Documents (2)
PS 421	(CE 2540)	Litigation I: Case Preparation before Trial (2)
PS 422	(CE 2541)	Litigation II: Case Preparation before Trial (2)
PS 423	(CE 2547)	Litigation III: Anatomy of a Lawsuit (2)
PS 424	(CE 2521)	Criminal Law (2)
PS 426	(CE 2524)	Environmental Law (2)
PS 427	(CE 2535)	Employment Law (2)
PS 429	(CE 2532)	Immigration Law and Procedure (2)
PS 431	(CE 2575)	Computer Assisted Legal Research (1)
PS 432	(CE 2576)	Patent, Trademark and Copyright Law (2)
PS 433	(CE 2578)	Auto Accident Law (2)
PS 434	(CE 2579)	Family Law (2)
PS 435	(CE 2581)	Bankruptcy and Collections (2)
PS 436	(CE 2583)	Medical Terminology (2)
PS 491		Special Topics for Paralegals (2)
PS 492	(CE 2599)	Ethics/Internship (2)

## 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*.

### PS 100 Introduction to American Politics (4)

The decision-making process in the American national government and the ways in which parties, groups, and individuals work to produce public policy in Congress, the presidency and the courts. *Satisfies the university general education requirement in the social science knowledge exploration area and in U.S. diversity.*

### PS 110 Contemporary Political Issues (2 or 4)

Selected topics dealing with current political issues or public policy problems. The particular topic will be announced at the time of offering. Designed for the general student. May be repeated for credit with different topics.

### PS 114 Issues in World Politics (4)

Introduction to the study of world politics and the main issues confronting the international community in the 21st century. Emphasis on the impact of cultural, economic and political globalization on international politics and individual lives. *Satisfies the university general education requirement in the social sciences knowledge exploration area or in the global perspective knowledge exploration area, not both.*

### PS 131 Comparative Politics (4)

Introduction to major modern political systems and concepts. Comparative analysis of the organization and operation of politics and government in different countries. *Satisfies the university general education requirement in the social science knowledge exploration area.*

### PS 203 The Politics of Race and Ethnicity (4)

A study of racial and ethnic groups and their role in the political process in the U.S. Emphasis will be placed on the political experience and the struggle for equal rights by major minority groups such as Blacks, Hispanics and Native Americans. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**PS 241 Law and Politics (4)**

A broad survey of law and legal systems in the U.S. that presents law as a dynamic, multifaceted discipline. Emphasis is placed on the open-ended quality of law and legal knowledge, despite the definitive nature of legal authority. A problem-solving approach is adopted to provoke critical discussion.

**PS 257 Public Affairs Careers Orientation (2)**

Planning for public service careers; the varieties of public service careers and the alternative of pursuing advanced degrees are explored. Examples and practical problems from agency work are examined through case studies and presentations by practitioners and professional administrators.

**PS 300 American Political Culture (4)**

A study of the main themes in American culture and the ways in which they affect the political beliefs, attitudes, opinions and behaviors of Americans. Key themes include individualism, the drive for success, racial attitudes, the American sense of a special mission in the world and American beliefs about democracy. (This course may not be taken for credit by students receiving credit for AMS 300.) Satisfies the university general education requirement in U.S. diversity for 2005-2006.

Prerequisite: PS 100.

**PS 301 American Presidency and the Executive Process (4)**

A study of presidential politics, decision making and leadership in the American political system.

Prerequisite: PS 100.

**PS 302 Legislative Process and Public Policy (4)**

A study of legislative behavior and decision making, emphasizing the problems of public policy development in the American political system.

Prerequisite: PS 100.

**PS 303 Research Methods and Statistics (4)**

A study of research design, measurement of political variables and data analysis.

Prerequisite: One course in political science.

**PS 304 Computer Techniques (2)**

Introduction to the computing environment at the university; computer packages in word-processing, electronic spreadsheet analysis and business graphics; statistical packages on the computer.

**PS 305 Local Government and Politics (4)**

Study of local governments; political, economic and demographic forces; trends in metropolitan and suburban politics; and problems of planning in an age of urbanization and suburbanization.

Prerequisite: PS 100.

**PS 306 Special Topics in American Politics (4)**

From time to time, the department offers courses on special topic in response to current issues in various subfields of the discipline.

**PS 307 State Politics (4)**

Comparative analysis of the variations and similarities of the political systems of the 50 states, the policy-making structures, political participation and contemporary public policy issues.

Prerequisite: PS 100.

**PS 308 Special Topics in Comparative Politics and International Relations(4)**

From time to time, the department offers courses on special topic in response to current issues in various subfields of the discipline.

**PS 311 Women and Politics (4)**

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

**PS 314 International Politics: Theory and Practice (4)**

Examination of the central theoretical and conceptual approaches to the study of international politics, and a focused exploration of how those contending approaches account for specific international phenomena such as war and peace, economic interaction, and the emergence of international organizations and global governance.

**PS 315 United States Foreign Policy (4)**

Examination of American foreign policy process, focusing on the impact of domestic societal, political and bureaucratic determinants of foreign policy and the constraints imposed by the international system. Main instruments of foreign policy, for instance, diplomacy, military power, economic statecraft, overt action, are considered and evaluated.

**PS 317 International Politics of Human Rights (4)**

Development of international human rights norms, the central debates and controversies: their application and enforcement in international politics. Focus on the evolution of the definition of human rights and its affect on the emerging international human rights regime.

Prerequisite: PS 314 recommended.

**PS 318 Foreign Policies of Communist Systems (4)**

Relations since 1917 between communist states and the Western world, as well as relations among communist states.

Prerequisite: PS 131.

**PS 320 Conducting Political Surveys (4)**

Overview of the history and approaches to survey research. Students will gain experience in planning and implementing survey projects and interpreting responses.

Prerequisite: PS 303.

**PS 321 Systematic Political Analysis (4)**

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

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

**PS 323 The American People and Their Presidents (4)**

Study of the relationships among public attitudes toward the presidency and the political system, voting behavior in presidential elections, and presidential policies and leadership. *Satisfies the university general education requirement in the social science knowledge exploration area for 2005-2006.*

Prerequisite: PS 100 or sophomore standing.

**PS 324 Political Parties and Elections (4)**

The study of electoral systems, political parties, and the voting behavior of individuals and groups, with special attention to U.S. political experience.

Prerequisite: PS 100.

**PS 325 Demography of American Politics (4)**

Study of the opinions, attitudes, voting and political activities of people belonging to different demographic segments of the population and of the underlying roots of these political behaviors. The demographic variables studied include racial, ethnic, gender, income, religion, residence, educational level, age, marital status, and similar groupings.

Prerequisite: PS 100.

**PS 326 Political Campaigns (4)**

A study of political campaigns, with classroom exercises and the opportunity for fieldwork on current political campaigns. The role and influence of the media on campaigns.

**PS 327 Media and Politics (4)**

The role of the media in influencing political attitudes and agendas, media coverage of issues and campaigns, media and the law, the nature of the media industry, and governmental regulation of broadcast media.

**PS 329 European Political Systems (4)**

An analysis of politics within and between nations in Europe. Selected institutions and processes are examined in detail. A comparative point of view is emphasized.

Prerequisite: PS 131.

**PS 330 Politics of Development (4)**

Examination of the issues that relate to social, political and economic development in countries undergoing dramatic social change.

**PS 331 Politics in Canada and the Commonwealth (4)**

An analysis and comparison of politics, parties, parliament, politicking, and public policy in Canada and selected countries of the Commonwealth.

Prerequisite: PS 131.

**PS 332 Politics of the Middle East and North Africa (4)**

The cultural and historical factors that influence contemporary politics of the area will be emphasized. Topics include religion, social structures, economic problems, the impact of the West and the Arab-Israeli conflict.

**PS 333 African Politics (4)**

Examination of politics of selected African states. Primary focus is on the evolution of political institutions since independence. The impact of indigenous traditions and the colonial heritage on that evolution is assessed. Individual, groups and institutions involved in the political process are studied.

**PS 334 Political Systems of Asia (4)**

Elements of political life in China, Japan, India, and other Asian countries. Cultural, historical, social and economic factors that influence and are influenced by contemporary political institutions. Processes by which political conflicts are resolved.

**PS 335 Politics of Latin America (4)**

Analysis of Latin American political systems and the historical, social and economic factors underlying them. The major countries are studied intensively, and a comparative approach is used to examine the variations from democracy to dictatorship and the political instability that characterizes the area.

**PS 337 The Russian Political System (4)**

A descriptive analysis of the Russian society as a political system: its origins, institutions and political behavior. Trends and developments in the system will be assessed, and comparisons with other political systems will be undertaken.

**PS 338 International Political Economy (4)**

Examination of the relationship between political and economic structure, organization, and events including issues such as the politics of trade and investment, regional integration, behavior of multinational corporations, and economic development.

Prerequisites: PS 114 or equivalent or ECN 200 or 201 or permission of instructor.

**PS 340 U.S. Constitutional Law (4)**

A broad survey of U.S. constitutional law as interpreted by the U.S. Supreme Court, with focus on analyzing original court opinions regarding the powers of the federal government and the interaction between federal and state governments; examines political factors that have shaped our understanding of the Constitution.

Prerequisites: PS 100 or 241.

**PS 341 Civil Rights and Civil Liberties (4)**

Broad survey of legal rights and liberties of individuals in the U.S., as interpreted by the U.S. Supreme Court, with focus on analyzing original court opinions regarding constitutional and political conflicts arising between individuals and the government; political factors that have influenced major judicial decisions are examined.

Prerequisite: PS 100 or 241.

**PS 342 The Judicial Process (4)**

A study of judicial behavior and decision making in federal courts with an emphasis on the role of courts in developing public policies.

Prerequisite: PS 100 or 241.

**PS 350            Public Administration (4)**

Study of government in action, with special attention to policy formulation, organization, personnel administration, supervision, coordination, administrative control and accountability.  
Prerequisite: PS 100.

**PS 353            American Public Policy (4)**

Examines the factors and actors involved in the development and implementation of public policy. Topics may include environment, education, economic development, defense, health care, welfare policy and ethical analysis of policy.  
Prerequisite: PS 100 or permission of instructor.

**PS 354            Global Environmental Governance (4)**

Overview of inter-related environmental and resource issues at the regional and global levels. Current institutions, laws and policies for addressing issues including global warming, climate change, biodiversity/species decline, trade/environment linkages, water resources, depletion of global fisheries and rainforests. Identical with ENV 354. *Satisfies the university general education requirement in the knowledge application integration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both.*  
Prerequisite for the applications area: Completion of the general education requirement in the social science knowledge exploration area.  
Prerequisite for the writing intensive: Completion of the university writing foundation requirement.

**PS 359            Public Policy and Health Care (4)**

An examination of the status and evolution of public policies relating to health and health care, the policy-making processes in health care and the various implications of trends in health care policy. Identical with HS 359.  
Prerequisite: PS 100.

**PS 371            American Political Thought (4)**

Survey of the writings of American thinkers who influenced the development of the American polity. Examines the political, legal and cultural origins of this country. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*  
Prerequisite: PS 100.

**PS 372            Western Political Thought I (4)**

Analyzes the writings of Western political theorists from 600 B.C. to 1500 A.D.; systematically examines the political, legal, economic, social, cultural and religious elements that influenced the ideas and policies postulated; and scrutinizes the assumptions behind deeply rooted modes of thought that continue to affect people's lives.

**PS 373            Western Political Thought II (4)**

Analyzes the writings of Western political theorists from 1500 A.D. to the present; systematically examines the political, legal, economic, social, cultural and religious elements that influenced the ideas and policies postulated; and criticism.

**PS 374            Politics through Literature (4)**

Will use literary works (novels, short stories, plays, essays) to examine a range of social and political systems in specific settings. Will discuss how political and cultural backgrounds of various authors have been conveyed in their writings.

**PS 377            Communism (4)**

The development of revolutionary socialism from early Marxism to the present. The course analyzes the relevance of Marxism to a variety of contemporary revolutionary situations. *Satisfies the university general education requirement in the Western civilization knowledge exploration area.*

**PS 390\*          Independent Study (2 or 4)**

Readings not normally covered in existing course offerings. Directed on an individual basis.  
Prerequisite: Permission of department and instructor; form available in 418 Varner Hall.

**PS 412            Police Budgeting and Personnel Management (4)**

Finance and resource allocation methods used by local and state police agencies. Topics include funding sources, expenditure patterns, resource allocation techniques and stakeholder influence.



**PS 413 International Law (4)**

An examination of the principles and organization of modern international law. Attention is given to the growing fields of ocean resources, outer space, environmental protection and information law. Prerequisite: PS 314.

**PS 453 Public Budgeting (4)**

Politics and process of budgeting in public organizations, especially as they relate to the control of policy. Specific techniques are discussed for developing, approving, administering and auditing budgets.

Prerequisite: PS 350 and either PS 303 or STA 225.

**PS 454 Public Sector Human Resource Management (4)**

Study of the procedures, techniques and problems of personnel administration in public agencies; evolution of the modern civil service system, merit principle, and responses to collective bargaining and equal opportunity programs.

Prerequisite: PS 350 and either PS 303 or STA 225.

**PS 458\* Public Affairs Internship (4 or 8)**

Supervised student internships with governmental, political, criminal justice and other public agencies; reports and analyses relating to agency required. Applicants must seek departmental approval at the beginning of the semester prior to that of the internship. No more than 4 credits of PS 458 may be counted toward the major in political science.

Prerequisite: PS 257 and permission of the internship director; form available in 418 Varner Hall.

**PS 490\* Special Topics or Directed Research (2, 4 or 8)**

Prerequisite: Permission of the instructor; form available in 418 Varner Hall.

**PS 497 Apprentice College Teaching (4)**

Affords the opportunity for qualified students to deepen their understanding of selected topics in political science and ways of teaching politics by assisting an instructor in teaching a 100-level political science course and writing a critique of this experience. May be taken only once for credit.

Prerequisite: Permission of instructor and department chair; form available in 418 Varner Hall.

\*Students are limited to 8 credits of independent study (PS 390 or 490) in any one semester and may offer no more than a total of 12 credits from PS 390, 458 and 490 toward fulfillment of major requirements.

**Advanced seminars**

From time to time, the department offers advanced seminars in which a topic or problem is studied in depth, and in which significant individual student research is presented for analysis.

**PS 470 Seminar in American Politics (4)****PS 472 Seminar in International Relations (4)****PS 474 Seminar in Political Behavior (4)****PS 476 Seminar in the Comparative Study of Political Systems (4)****PS 478 Seminar in Public Law (4)****PS 480 Seminar in Political Theory (4)****PS 482 Seminar in Public Administration: Strategies and Policies (4)****PS 484 Seminar in Public Policy (4)**

# DEPARTMENT OF PSYCHOLOGY

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111 PRYALE

(248) 370-2300  
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**Chairperson:** *Robert B. Stewart, Jr.*

**Professors emeriti:** *Edward A. Bantel, David C. Beardslee, Jean S. Braun, Max Brill, Harvey Burdick, Harold Zepelin*

**Professors:** *Daniel N. Braunstein, Ranald D. Hansen, Algea O. Harrison, Dean G. Purcell, Robert B. Stewart, Jr.*

**Associate professors:** *Mary B. Eberly, Christine Hansen, I. Theodore Landau, Lawrence G. Lilliston, Ralph Schillace, David W. Shantz*

**Assistant professors:** *Ronald L. Butzlaff, Sylvie Adeline Lombardo, Debra McGinnis, Cynthia Sifonis, Keith L. Williams*

**Chief adviser:** *Mary B. Eberly*

The Department of Psychology offers undergraduate programs leading to the Bachelor of Arts degree. The psychology curriculum is structured to meet the needs of four types of students interested in majoring in psychology: students who plan to find employment after obtaining the bachelor's degree, students who plan to go to graduate school in psychology, students who plan to enter a field other than psychology that requires further formal training and students who have a general interest in psychology. A pamphlet, "Majoring in Psychology at Oakland University," is available in the department office. Students planning to major in psychology should obtain a copy of this pamphlet, which offers suggested programs of study.

Course work more than 10 years old is not automatically accepted for credit toward the major. The department reserves the right to review such courses before accepting them for credit toward the major. An examination may be required to demonstrate proficiency in the areas covered by such courses.

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

To earn the Bachelor of Arts with a major in psychology, students must complete a minimum of 40 credits in psychology with a minimum GPA of 2.00 over all psychology courses and must satisfy the following three requirements:

1. PSY 100, 250 and 251 with a minimum course grade of 2.0
2. Two of the following courses: PSY 215, 225, 235 and 245
3. One course each from three of the following four groups:

**Basic processes:** PSY 311, 316, 317, 318, 319, 415

**Developmental:** PSY 321, 322, 323, 327, 425

**Social:** PSY 330, 333, 337, 338, 339, 435

**Personality and individual differences:** PSY 341, 342, 343, 344, 445.

Students planning to attend graduate school should complete one of the experimental courses (PSY 450, 452, 453 or 454). PSY 399 may not be counted toward the major.

## Departmental honors

Departmental honors may be awarded to graduates who have taken a 400-level experimental methods course (or equivalent), done honors-level work resulting in a tangible product in PSY 494 or in PSY 487-489, and achieved a grade point average of 3.50 or above in psychology courses. The student must have completed at least six psychology courses at Oakland University. It is also the student's responsibility to file an "Application for Departmental Honors in Psychology" form.

## Requirements for a modified major in psychology with a concentration in linguistics, B.A. program

Students with this modified major in psychology must have a minimum of 24 credits in psychology and 20 credits in linguistics including:

1. PSY 100, 250 and 251
2. At least two 300-level PSY courses
3. 16 credits in LIN courses, including: LIN 201, 303, 304, and either 403 or 404
4. ALS 335.

## Requirements for the liberal arts minor in psychology

To earn a minor in psychology, students must complete a minimum of 24 credits in psychology with a minimum GPA of 2.00 over all psychology courses and must satisfy the following three requirements:

1. PSY 100 or 130, and PSY 250 with a minimum course grade of 2.0
2. Two of the following courses: PSY 215, 225, 235 and 245
3. One course each from two of the following four groups:

**Basic processes:** PSY 311, 316, 317, 318, 319, 415

**Developmental:** PSY 321, 322, 323, 327, 425

**Social:** PSY 330, 333, 337, 338, 339, 435

**Personality and individual differences:** PSY 341, 342, 343, 344, 445.

## 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*.

### PSY 100 Foundations of Contemporary Psychology (4)

An introduction both to basic principles and recent formulations in psychology. Topics include the central psychological processes of attending, perceiving, learning, thinking, remembering and study of social behavior, and the development and organization of personality. Required of psychology majors. *Satisfies the university general education requirement in the social science knowledge exploration area.*

### PSY 130 Psychology and Society (4)

Examination of relationships among people and the effects of these relationships upon them. Analysis of social functions and roles; development and change of attitudes, beliefs and values; and development of personality in relation to the social milieu.

### PSY 200 Topics in Psychology (4)

Offered occasionally on special topics of current interest that are not listed among regular offerings. Prerequisite: See individual listings in *Schedule of Classes*.

**PSY 215 Introduction to Basic Psychological Processes (4)**

A survey of the processes of learning, memory and thinking, including physiological factors underlying these processes.

Prerequisite: PSY 100 or 130.

**PSY 225 Introduction to Life-Span Developmental Psychology (4)**

A survey of the principal cognitive, social and behavioral processes that operate across the life-span.

Prerequisite: PSY 100 or 130.

**PSY 235 Introduction to Social Psychology (4)**

Overview of traditional and current trends in social psychology. Attention is given to developing theoretical approaches to attitudes, interpersonal processes and social perception.

Prerequisite: PSY 100 or 130.

**PSY 245 Introduction to Individual Differences and Personality Psychology (4)**

A survey of basic research in individual differences and personality, including major areas such as gender, aggression, altruism, conflict and measurement of personality variables.

Prerequisite: PSY 100 or 130.

**PSY 250 Introduction to Research Design (4)**

General introduction to design, function and interpretation of research in the social sciences. Provides necessary preparation to evaluate the empirically based content of psychology. Required of psychology majors.

Prerequisite: PSY 100 or 130.

**PSY 251 Statistics and Research Design (4)**

The principal statistical procedures employed in social science research. An introduction to descriptive statistics, probability and inferential statistics necessary to carry out and interpret social science research.

Prerequisite: PSY 250 and MTH 012 with a minimum grade of 2.0 or placement in a higher mathematics course.

**PSY 311 Sensation and Perception (4)**

Approaches to the basic sensory systems and perceptual processes. *Satisfies the university general education requirement for a writing intensive course in the major.* Prerequisite for writing intensive: *Completion of the university writing foundation requirement.*

Prerequisite: PSY 250.

**PSY 316 Cognitive Psychology (4)**

The information processing approach to problems in pattern recognition, selective attention, mental operations, short- and long-term memory, the psychology of reading, problem solving and probabilistic reasoning. *Satisfies the university general education requirement for a writing intensive course in the major.* Prerequisite for writing intensive: *Completion of the university writing foundation requirement.*

Prerequisite: PSY 250.

**PSY 317 Sleep and Dreams (4)**

A review of facts and theories regarding sleep and dreams with demonstrations of research techniques. Topics include psychological and biological viewpoints on sleep, dreams, dream interpretation and sleep disorders. *Satisfies the university general education requirement for a writing intensive course in the major.* Prerequisite for writing intensive: *Completion of the university writing foundation requirement.*

Prerequisite: PSY 250.

**PSY 318 Physiological Psychology (4)**

Biological bases of behavior of humans and related mammalian species: basic neuroanatomy and neurophysiology, motivation, emotion, learning and memory, sleep and dreams, sensory-motor mechanisms, brain stimulation, psychopharmacology, hormones and behavior. *Satisfies the university general education requirement for a writing intensive course in the major.* Prerequisite for writing intensive: *Completion of the university writing foundation requirement.*

Prerequisite: PSY 250.

**PSY 319 Animal Behavior (4)**

Comparative psychological, ethological and sociobiological viewpoints on behavior of animals. Emphasis will be on vertebrate species including humans. Discussion of reproductive, aggressive and social behaviors, learning, communication, etc. Stresses an evolutionary perspective. *Satisfies the university general education requirement for a writing intensive course in the major.* Prerequisite for writing intensive: *Completion of the university writing foundation requirement.*

Prerequisite: PSY 250.

**PSY 321 Child Development (4)**

Theory and principles of child development from birth to puberty. Selected topics include: maturational processes, learning and motivation, intelligence, self concept and child-rearing practices. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 322 Adolescence and Youth (4)**

The transition to adulthood, as influenced by physiological change, intellectual growth, and social attitudes. Topics include the quest for identity, juvenile delinquency, drug use, the youth culture, relationships between generations, and vocational choice. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 323 Adulthood and Aging (4)**

Psychological change, from young adulthood to death. Topics include potentials for psychological growth and sources of crisis, changes in intellectual processes, attitudes toward aging, retirement and the needs of the aged. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 327 Socialization in the Family (4)**

Some areas of research and theory on socialization processors. Areas of focus: attachment and separation, conscience development, sex-role identity, ego-identity, etc. Role of principal agents, e.g., family, peers, school. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 330 Social Cognition (4)**

The theory and research explicating thinking processes underlying social phenomena such as impression formation, persuasion, conformity, compliance, stereotyping and causal perception. Areas of focus include attitude formation and change, attribution theory, the role of affect in cognition, schema theory and theories of nonverbal behavior. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 333 Motivation (4)**

The nature of physiological and behavioral mechanisms that control an organism's reaction to the demands of its environment. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 337 Interpersonal Processes and Group Behavior (4)**

Group structure, function and process. Focus on how individuals affect the behavior of people in groups; how the group, in turn, affects the behavior of the individual. Topics include leadership, cohesion, group therapy, crowds and mobs. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 338 Health Psychology (4)**

The application of theory and research in psychology to the enhancement of health and prevention and treatment of illness. The interaction between biological, social and psychological factors in health and medical problems is emphasized. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 339 Emotion (4)**

Understanding of human emotion from both a historical and theoretical viewpoint. Contemporary theoretical positions will be compared in terms of the roles cognition, behavior and psychological changes play in the emotional experience. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 341      Abnormal Psychology (4)**

The psychodynamics of abnormal behavior, clinical types, methods of investigation and principals of psychotherapy. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 342      Coping Strategies in the Normal Personality (4)**

Characteristics of healthy personality in the following dimensions: need gratification, reality contact, interpersonal relationships and growth. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 343      Psychopathology of Childhood (4)**

The psychopathology of children and adolescents, emphasizing dynamic and cognitive-perceptual-motor variables. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 344      Behavior Analysis (4)**

Theory and research on the analysis of behavior as it has developed from Pavlov to Skinner and Bandura. Includes a consideration of the application of principles of behavior analysis to individual and social behavior. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 250.

**PSY 358      History and Systems of Psychology (4)**

How psychology came to be as it is. The beginning to the great experiments and the schools of psychology; the schools to World War II; World War II to the present. Researchers, experiments, theories. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 100 and two psychology courses other than PSY 251.

**PSY 362      Statistical Analysis on Computers (4)**

The principal computer packages used by social science researchers in analyzing data. A study of MINITAB serves to review basic concepts and introduce the logic of structuring data sets. The remainder of the course will focus on the BMDP and SPSS packages.  
Prerequisite: PSY 251.

**PSY 370      Psycholinguistics (4)**

Identical with ALS 335. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*

**PSY 371      Work with the Elderly (4)**

Introduction to community and institutional work with the elderly. Field placement is combined with readings and lectures on psychosocial services for the elderly.  
Prerequisite: PSY 250 and 323 or permission of instructor.

**PSY 374      Psychology of Women (4)**

Examines gender differences resulting from the socialization of girls and women and the psychological impact of life events experienced exclusively or differentially by women. Topics include role conflicts, gender stereotypes, achievement and employment. Identical with WS 374.  
Prerequisite: PSY 100 or 130.

**PSY 381      Tests and Measurement (4)**

Theories of measurement and evaluation. Examination of construction and interpretation of tests of ability, achievement, interests and special aptitudes. Objective tests of personality. *Satisfies the university general education requirement for a writing intensive course in the major. Prerequisite for writing intensive: Completion of the university writing foundation requirement.*  
Prerequisite: PSY 251.

**PSY 399      Field Experience in Psychology (4)**

The application of psychological concepts and methods in a work setting. Includes job placement with a classroom component, readings and discussion of relevant literature. May not be repeated for credit.  
Prerequisite: Junior/senior standing. Minimum of 16 credits in the major including PSY 250, two courses between 310 and 349, and permission of instructor.

**PSY 415 Seminar in Basic Psychological Processes (4)**

Advanced seminar in a special topic related to cognition, perception, conditioning or physiological processes.

Prerequisite: PSY 215, 250 and permission of instructor.

**PSY 425 Seminar in Developmental Psychology (4)**

Advanced seminar in a special topic related to developmental psychology, such as theories of development.

Prerequisite: PSY 225, 250 and permission of instructor.

**PSY 435 Seminar in Social Psychology (4)**

Advanced seminar in a special topic related to social psychology, such as attitudes, attributions or theories of social influence.

Prerequisite: PSY 235, 250 and permission of instructor.

**PSY 445 Seminar in Individual Differences and Personality Psychology (4)**

Advanced seminar in a special topic related to individual differences and personality psychology, such as theories of personality, aggression or religion.

Prerequisite: PSY 245, 250 and permission of instructor.

**PSY 450 Advanced Experimental Psychology: Basic Psychological Processes (4)**

Issues in learning, perception, thinking, physiological psychology, and animal behavior, with independent research project.

Prerequisite: PSY 251 and permission of instructor.

**PSY 452 Advanced Experimental Psychology: Developmental (4)**

Issues in design and methodology of psychological research with application to the developmental area. Independent project required.

Prerequisite: PSY 251 and permission of instructor.

**PSY 453 Advanced Experimental Psychology: Social (4)**

Theory and techniques of survey research, field experiments, laboratory experiments and field studies. Experience in data collection; independent project required.

Prerequisite: PSY 251 and permission of instructor.

**PSY 454 Advanced Experimental Psychology: Individual Differences and Personality (4)**

Issues in design and methodology of psychological research on personality. Independent research project required.

Prerequisite: PSY 251 and permission of instructor.

**PSY 460 Senior Seminar in Psychological Science (4)**

This team-taught seminar will bring to bear the understandings of various subdisciplines in psychology on a complex behavioral issue (e.g. child rearing, academic achievement, hostility and helping). The members of the department representing the relevant subdisciplines will lead the seminar discussion.

Prerequisite: PSY 251 and 358.

**PSY 470 Apprentice College Teaching (4)**

Supervised participation in teaching undergraduate psychology courses. Discussion of teaching objectives and methods. May be repeated for a total of 8 credits. Only 4 credits may be offered to fulfill major requirements.

Prerequisite: Permission of instructor.

**PSY 483-485 Readings and Research Projects (2 or 4 each)**

Individual readings or laboratory research on a topic agreed upon by a student and a member of the psychology faculty. May be repeated for additional credit. Not more than 8 credits of readings and research project may be counted toward fulfillment of the major in psychology.

Prerequisite: Permission of instructor.

**PSY 487-489 Research Apprenticeship (4 each)**

Student will be mentored by faculty in design and implementation of a research project. May be repeated for additional credit. Not more than 8 credits earned in the research apprenticeship may be counted toward fulfillment of the major in psychology.

Prerequisite: Permission of instructor.

**PSY 494 Honors Independent Studies (4)**

Independent honors research projects in clinical, developmental, experimental and social psychology, respectively.

Prerequisite: Permission of instructor.

# DEPARTMENT OF RHETORIC, COMMUNICATION AND JOURNALISM

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316 WILSON HALL

(248) 370-4120  
Fax: (248) 370-4208

**Chairperson:** *Sharon L. Howell*

**Professors:** *Alice S. Homing (director, Rhetoric Program), Sharon L. Howell, Cornelius J. Shine, Ronald A. Sudol*

**Associate professors:** *Wallis May Andersen, William W. Connellan, Rose M. Cooper, Barbara B. Hamilton, David L. Lau (director, Communication Program), Margaret B. Pigott, Roberta Schwartz*

**Assistant professors:** *Thomas A. Discenna, Kellie Hay, Jennifer M. Heisler, Karen E. Strother-Jordan, Marshall W. Kitchens, Valeria Palmer-Mehta, Margaret K. Willard-Traub*

**Visiting assistant professors:** *Christina Morus, Charlotte Pagni*

**Special instructors:** *Susan Baker, Anne Becker (supervisor, Internships), Cathleen Breidenbach, Quinn T. M. Clarke, Scott L. Crabill (chief adviser), Bernadette Dickerson, Catherine Haar, Kasia G. Kietlinska, Margaret L. Kurzman, Jeanie F. Robertson*

**Visiting special instructors:** *Holly Gilbert, Elizabeth Talbert*

**Visiting instructor:** *Mike Lewis (interim director, Journalism program)*

**Lecturers in rhetoric:** *Laurette Alkidas, Glen Armstrong, Timothy Briggs, William Byrne, David Colonne, Carole Crum, LaWanda Dickens, Suzanne Drapeau, Carl Dull, Laura Duprey, Paul Gelinias, Andrew Kos, Robert Lamphear, Kathleen Lawson, Frank Lepkowski, Les Loncharich, Sabahat Masood, Catherine McQueen, Edward Nebel, Arthur Orme, Cornelia Pokrzywa, Anna Mae Powell, Paul Priest, Leba Rautbort, Laura Redmond, Michael Rex, William Rouster, Marilyn Shapiro, John Simecek, Kathy Skomski, Craig Smith, Carole Trupiano, Sonya Vaughn, Jessamon Wiese, Sherry Wynn, Helen Zucker*

**Lecturers in communication:** *Theresa Beamon, Scott Burke, Lisa Campbell, Christine Cronauer, Randolph Cullen, Ronald Dans, Gene Fogel, Lauren Gragg, Marsha Harris, Heather Haughey, Laurel Humphreys, Timothy Johnston, Gregg Kampe, Carol Anne Ketelsen, Deborah Marsden, Reginald McCloud, Janet McKenney, Tushar Oza, Robert Parent, Jill Putman, DeAndre Shapard, Aileen Sundstrom, Kristina Trevarrow*

**Lecturers in journalism:** *Lori Braiser, Charlie Cortex, Jack Ferry, Alan Fisk, Garry Gilbert, Fred Girard, Joe Grimm, Greg Kampe, Robyn Luce, Kim Madeleine, Laurie Michelson, Robert Snell, Michelle Solomon, Sally Tato, Tracy Ward, Roger Weber*



The Department of Rhetoric, Communication and Journalism offers programs of study leading to the degree of Bachelor of Arts in Communication or Journalism, with the opportunity to concentrate in several areas within each major. Courses are available in communication theory, public and interpersonal communication, print and broadcast journalism, public relations, advertising, oral interpretation and mass media.

The department serves the non-speech major and the general university student. Communication and journalism training can enhance almost any career or life. There are many specialized careers that welcome students with communication knowledge and writing skills, e.g., journalism, media, law, teaching. The department also serves the general university student by providing the composition courses required by the university.

## Departmental honors and scholarships

All communication and journalism majors with a university grade point average of 3.00 or above are considered candidates for departmental honors. Honors are awarded to those candidates with the highest averages in major courses. The exact criterion varies from year to year. The department awards scholarships in two major fields: the Donald C. Hildum scholarship to communication students demonstrating academic promise, and the Oakland Press scholarship for excellence in journalism.

## Rhetoric Program

The mission of the rhetoric program is to enable students to write independently and collaboratively, to value literate practices in a wide variety of situations, and to be critical readers and thinkers in academic, community, national and global environments.

Rhetoric program faculty view rhetoric and literacy as subjects that must be studied in the context of broader cultural and public interests, and are committed to offering students opportunities to write and to read diverse kinds of texts. Therefore, our courses integrate principles of humanistic, academic inquiry and encourage students to become engaged citizens. Because we view written language as a form of action, worthy of careful consideration by students, teachers and citizens, we affirm its ability to create common interests and foster understanding of differences. Thus the curriculum is ethically and intellectually grounded, requiring students to reflect on the forms and purposes of writing and on the ways written communication is shaped to suit particular rhetorical contexts inside and outside the university.

To fulfill Oakland University's general requirement in the writing knowledge foundation area, students must complete RHT 160 and prerequisites with a grade of 2.0 or better. Most students will take Composition I (RHT 150) and Composition II (RHT 160). (See *Undergraduate degree requirements*.) New students will be placed through the use of several mechanisms.

Entering students with an ACT score of 15 or below will be placed in RHT 102 (Basic Writing). Students whose ACT scores are 16 or above will be placed in RHT 150 (Composition I) unless they qualify for RHT 160 (Composition II). Some students may be required to take RHT 104 (Supervised Study) based on early writing samples in their classes.

Students are placed in RHT 160 on the basis of prior college composition coursework, or if they present a Level 1 score on the MEAP Writing Test, or an AP English exam score of 3 or better, or a successful placement portfolio. Placement portfolio directions are available from the Office of New Student programs and the Department of Rhetoric, Communication and Journalism (316 Wilson Hall, 370-4120).

Students who believe their skills warrant exemption from Rhetoric 160 may submit a portfolio as described under *the General Education program* in the *Undergraduate degree requirements* section of this 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*.

### RHT 045      Communication Skills (6)

A small group course introducing new students to the basic language arts skills of reading, writing and speaking needed for success in the university. Graded S/U. Credits earned may not be used to satisfy minimal graduation requirements in any academic program.

Prerequisite: Placement in Student Success Services.

### RHT 102      Basic Writing (4)

Developing writing skills including idea generation and invention, organizational strategies and conventional usage in expository prose. Emphasis on developing fluency and effective writing processes. Placement by referral. Enrollment in summer by placement in Student Success Services Program only. May be repeated once for additional credit. Graded S/U.

### RHT 104      Supervised Study (1 or 2)

Tutorial instruction in areas mutually agreed upon by student and instructor such as independent or academic writing projects. May be taken concurrently with other rhetoric courses (seven weeks or 14 weeks). May be repeated for up to 8 credits. Graded S/U.

### RHT 111      Writing and Reading for Non-Native Speakers (4)

For students learning English as a second language, focusing on basic syntax, efficient reading and effective writing techniques. Students will write logs or journals, exercises and several short compositions. Placement by referral. S/U grading or numerical grading.

### RHT 120      College Study Skills (4)

Prepares students for academic success by introducing theories and effective practices in college learning, including strategies of memory and retention, examination preparation and performance, textbook reading and marking, notetaking, time-management.

### RHT 140      College Reading (4)

College reading techniques, including diagnosis of instructional needs, and an individual program study.

### RHT 142      Efficient Reading (2 or 4)

For students who understand material but need more efficient reading skills. Topics include skimming/scanning techniques, adjustment of rate, patterns of organization, drawing inferences and conclusions before and during reading, and effective use of textbooks. A seven- or 14-week course.

### RHT 144      Critical Reading (4)

For students who understand literal reading content but who have difficulty with critical comprehension. Develops sophisticated reading skills for practical prose. Recommended for upper-level students contemplating graduate school.

Prerequisite: Completion of the university general education writing knowledge foundation course.

### RHT 150      Composition I (4)

A course emphasizing the rhetorical and stylistic demands of college writing through focus on experiential and expressive writing. Students learn to generate, organize and develop their ideas and to make choices as writers that are appropriate to the rhetorical situation. A grade of 2.0 or higher must be achieved to advance to RHT 160.

Prerequisite: Placement by faculty evaluation of writing or successful completion of RHT 102.

Corequisite: RHT 104 if recommended by instructor after first class meeting.

**RHT 160      Composition II (4)**

Emphasizes the process of writing in increasingly complex rhetorical situations with focus on developing analytic thinking and problem-solving strategies in writing. Students learn methods of academic research including evaluation and documentation of sources and are expected to create at least one research paper. *A grade of 2.0 or higher must be achieved to satisfy the university general education requirement in the writing knowledge foundation area.*

Prerequisite: Placement by portfolio review by faculty, successful completion of RHT 150, or transfer of 3-5 credits of college-level composition.

Corequisite: RHT 104 if recommended by instructor after first class meeting.

**RHT 320      Peer Tutoring in Composition (4)**

Peer tutoring theories and pedagogies, and practical experience in teaching. Work divided between classroom and tutoring assignments. Particularly valuable for majors in the humanities, education, psychology, human services and related fields. *Satisfies the university general education requirement in the knowledge applications integration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both. Prerequisite: Completion of the university writing foundation requirement.*

Recommended: A grade of 3.0 or better in RHT 160 or its equivalent.

**RHT 330      Digital Culture: Identity and Community (4)**

Examination of the rhetoric and ethics of internet technology and culture. Introduces theories of digital culture and its effects on both on-line and actual identities and communities, especially in relation to ethnicity, gender, class, physical ability and sexual orientation. Includes individual and collaborative analysis and construction of web projects. Identical with COM 330. *Satisfies the university general education requirement for a writing intensive course in general education or the major, not both. Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: Completion of the university writing foundation requirement.

**RHT 334      Writing about Culture: Ethnography (4)**

Development of analytic and collaborative writing skills in the context of ethnographic study. Emphasis on written analysis in a variety of forms including case study analysis and ethnomethodological investigation. Appropriate advanced writing experience for majors in communication, psychology, anthropology, sociology and political science. *Satisfies the university general education requirement in the knowledge applications integration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both. Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: Completion of the university writing foundation requirement.

**RHT 335      Writing for Human Resource Development Professionals (4)**

Development of analytic reading and writing skills for human resource development professionals. Emphasis on using rhetorical analysis to write in a variety of forms which may include letters, memos, electronic communications, problem statements, proposals, and research projects.

Prerequisite: Completion of the university writing foundation requirement

Corequisite: RHT 104 if recommended by instructor.

**RHT 341      Rhetoric of Professional Discourse (4)**

Examination of the rhetoric of argumentation in professional and workplace settings. Introduces relevant theories of cultural and discourse analysis. Includes extended research project focused on writing in a professional or workplace setting. *Satisfies the university general education requirement in the knowledge applications integration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both.*

Prerequisite: Completion of the university writing foundation requirement.

**RHT 342      Contemporary Rhetorical Studies (4)**

Examination of major European and American twentieth century rhetoricians. Considers the classical roots of modern rhetoric and the modern influences of disciplines such as philosophy, literary criticism and cultural anthropology. Involves reading-response journals, shorter papers, and final project. *Satisfies the university general education requirement in the knowledge applications integration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both.*

Prerequisite: Completion of the university writing foundation requirement.

**RHT 365 Women Writing Autobiography (4)**

Students use autobiography as a feminist methodology to explore topics of personal and community significance, and practice writing strategies relevant to addressing issues of audience, purpose, agency and research. Autobiographical texts by diverse women writers serve as models for students' own writing. Includes weekly assignments and an extended final project.

Identical with WS 365.

Prerequisite: RHT 160.

**RHT 370 Special Topics (2 or 4)**

Special topics in composition and rhetoric. May be repeated under different subtitles.

Prerequisite: Completion of the university writing foundation requirement.

**RHT 380 Persuasive Writing (4)**

Advanced writing designed to help students develop argumentative and stylistic skill in a variety of rhetorical contexts with application in business, communication, industry and government.

Prerequisite: Completion of the university writing foundation requirement.

**RHT 414 Teaching Writing (4)**

Examination of and practice in instructional techniques and research in writing pedagogy, and such related issues as assessment and classroom workshops.

Prerequisite: Junior standing and RHT 314, 315, or 320, or permission of instructor.

**RHT 460 Writing Across the University: Language and Disciplinary Culture (4)**

Interdisciplinary examination of diverse strategies for writing and research in the humanities, social sciences and natural sciences. Introduces theories of language as social cultural and action. Students build upon prior knowledge and increase their effectiveness as writers and researchers. Includes individual, collaborative, and field-based research projects. *Satisfies the university general education requirement in the knowledge applications integration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both.*

Prerequisite: Junior standing. Completion of the university writing foundation requirement.

**RHT 490 Independent Study (2 or 4)**

Special research projects in writing and/or teaching writing. Approved course of study and an authorization form, signed by a faculty member willing to supervise the study, must be submitted to the department the term prior to the term the independent study is taken. May be repeated for up to 8 credits.

Prerequisite: One 300-level rhetoric course and permission of the instructor.

**RHT 491 Internship (4)**

Experience working with writing professionals in business, industry or educational or non-profit organizations. May be repeated once in a different setting. *Satisfies the university general education requirement in the knowledge applications integration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both.*

Prerequisite: RHT 320, 335, ENG 382 or another 300-400 level RHT course, and permission of the instructor.

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

Assisting in teaching an undergraduate course in rhetoric. Includes discussions with the supervising faculty member on the principles, methods and problems of such teaching. May be taken for a total of 4 credits.

Prerequisite: Senior standing. RHT 414 and two additional 300-400 level RHT courses. RHT 414 may be taken concurrently.

## Communication Program

The major in communication combines theory and practice and emphasizes how people analyze and make responsible choices in communication contexts. Students develop critical perspectives in order to evaluate different communication approaches. Students, as communicators, learn to choose the effect their actions have on others. They learn also to choose their roles as citizens in a community. This responsibility requires that they appreciate and respect human differences among cultures, social groups, genders and individuals, and that they create a voice for building personal and public relationships.

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

To earn the Bachelor of Arts degree with a major in communication, students must complete a minimum of 40 credits of which 20 credits must be at the 300 level or above, plus corequisite courses including:

1. COM 201, 303 and 385.
2. At least 8 credits from the Interpersonal Discourse group: COM 202, 207, 304, 305, 310, 327, 360, 402, 404, 405.
3. At least 8 credits from the Public Discourse group: COM 220, 280, 285, 287, 301, 307, 308, 311, 314, 318, 330, 371, 373, 376, 377, 378, 381, 382, 476.
4. At least 8 elective credits in COM courses.
5. COM 399.
6. Corequisites as follows:
  - a. Language (choose one from the following):
    1. American Sign Language at the university level (COM 114-115) COM 114-115 will also satisfy the elective requirement (see #4 above) for the major in communication.
    2. An introductory two-semester sequence in a modern foreign language.
    3. One semester of a modern foreign language at the 115 level or higher.
  - b. An advanced writing course: JRN 200; ENG 382; RHT 334.  
(This 4-credit writing course is in addition to the 40 credits required for the major.)

Communications majors interested in careers in public relations or advertising are encouraged to focus course work in the appropriate area. For a focus in public relations, students should take 12 credits from: JRN 350, 351 and either 352 or 353. For a focus in advertising students should take 12 credits from: JRN 340, 341 and either 342 or 343. These courses do not count toward the major, but could count toward a minor in advertising or public relations. (See the Journalism Program section of this catalog.)

## Requirements for the modified major in communication with a linguistics concentration, B.A. program

To earn a communication major with a concentration in linguistics, student must complete 24 credits in communication and 20 credits in linguistics including:

1. COM 201 or 202.
2. COM 303.
3. At least 4 credits from the Interpersonal Discourse group.
4. At least 4 credits from the Public Discourse Group.
5. 20 credits in LIN or ALS courses, including: 201, 303, 304 and either 403 or 404.
6. LIN 401.

## Requirements for the liberal arts minor in communication

To earn a minor in communication, students must complete a minimum of 20 credits in communication including:

1. COM 201 or 202.
2. COM 303.
3. At least 4 credits from the Interpersonal Discourse group.
4. At least 4 credits from the Public Discourse Group.
5. At least 12 credits in communication courses must be at the 300-400 level.

No more than 4 credits in independent study, internship or apprentice college teaching may be counted toward 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*.

### **COM 101 Collegiate Communication (1)**

A twelve week, one credit course with a primary goal of teaching students how successful communication and relationship development can improve their chances of academic and personal success.

### **COM 114 Introduction to American Sign Language (4)**

Conversational American Sign Language. Introduction to basic sign vocabulary and grammatical features including facial expression and body language. Includes an examination of the psychological, cultural and linguistic aspects of the deaf community.

### **COM 115 American Sign Language (4)**

A continuation of COM 114.

Prerequisite: COM 114.

### **COM 201 Public Speaking (4)**

Theory and practice in public address: adaptations required by particular goals, audience and occasions, and classroom interactions.

### **COM 202 Group Dynamics and Communication (4)**

Group dynamics, discussion and problem solving; influences of group structure, norms, roles, leadership and climate on the processes of group communication and collaborative decision making.

### **COM 207 Meaning in Language (4)**

Identical with LIN 207. *Satisfies the university general education requirement in the foreign language and culture knowledge exploration area for 2005-2006.*

### **COM 214 American Sign Language III (4)**

Continues the work of COM 114-115 with a focus on clarity and completion of expressions. Accurate reception as well as an examination of literary prose in a deaf community.

Prerequisite: COM 115.

### **COM 215 American Sign Language IV (4)**

Develops expressive and receptive fluency through a study of the performance and structure of American sign language poetry.

Prerequisite: COM 214.

### **COM 220 Public Speaking on Public Issues (4)**

The development, presentation and defense of speeches addressing public issues, including advanced concepts of audience analysis and persuasion, and the use of rhetorical strategies and aids.

Prerequisite: COM 201.

### **COM 280 Broadcast Announcing (4)**

Techniques of speaking before a microphone, editing, reading copy and news broadcasting. Experience includes recording and critique of various styles of delivery.

**COM 285 Introduction to Broadcasting (4)**

A survey of public and commercial radio and television, including their public service, educational and religious functions; and the history, economics, influence and social control of broadcasting.

**COM 287 Media and Social Identity (4)**

Explores the role of media in the construction of international, national and local communities, as well as social identity. Students will be given an historical overview of the development of media with an emphasis on the role of media in shaping our ideas of ethnicity, gender identity and citizenship. *Satisfies the university general education requirement in the social science knowledge exploration area.*

**COM 301 Persuasion (4)**

Analysis of persuasion in current society, psychological bases of persuasion, ethical considerations, and distinctions between debate and persuasive argument.

Prerequisite: COM 201.

**COM 303 Communication Theory (4)**

Central concepts in communication and the relation of communication to system theory, the acquisition of knowledge, the nature of language and the maintenance of ethical values.

Prerequisite: Sophomore standing.

**COM 304 Communication in Organizations (4)**

Communication theory and practice within organizational systems.

**COM 305 Interpersonal Communication (4)**

Explores how communication negotiates our understanding of self and others. Focus is on current research, theory and issues in relational communication.

Prerequisite: One COM course.

**COM 307 Performance Communication (4)**

Examination of the theory and practice of oral interpretation of written text. Particular attention is given to how readers bring written works to meaning through communicative performance.

Prerequisite: COM 201 or permission of the instructor.

**COM 308 Competitive Speaking (2)**

Advanced practice and application of speech writing, public address and oral interpretation skills using many of the standards established by the National Forensics Association. May be repeated for up to 6 credits.

Prerequisite: COM 201.

**COM 310 Philosophy of Rhetoric (4)**

Identical with PHL 310.

**COM 311 Rhetoric and Public Address (4)**

Introduction to the history and theory of rhetorical criticism and public address, contrasting Aristotle's rhetoric with contemporary theories.

Prerequisite: COM 201.

**COM 314 Discourse and Content Analysis (4)**

Analysis and comparison of spoken and written texts, with the aim of bringing out their basic structures and differences by methods ranging from close reading to categorization and statistics.

**COM 318 Argumentation and Debate (4)**

Theories of argumentation from the classical to the contemporary period combined with debating experience. Propositions of fact, value and policy are distinguished and related to the construction and selection of argument. Debate experience will focus on the national intercollegiate proposition.

Prerequisite: COM 201.

**COM 327 Gender Communication (4)**

Explores the relationships between gender and communication strategies and settings. The course examines how gender is experienced and how individuals learn to manage the dynamic of gender in interpersonal interaction and public discourse.

**COM 330 Digital Culture: Identity and Community (4)**

Identical with RHT 330. *Satisfies the university general education requirement for a writing intensive course in general education or the major, not both. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both. Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: Completion of the university writing foundation requirement.

**COM 360 Listening in Communication (2)**

Examination of the differences between hearing and listening in responsible communication. The course identifies barriers to effective listening and explores ways to manage them. Different listening skills appropriate for diverse types and purposes of listening are identified and examined.

**COM 371 Forms and Effects of Mass Communication (4)**

Identical with SOC 371.

**COM 373 Social Control of Mass Media (4)**

Identical with SOC 373.

**COM 376 Introduction to Television Production (4)**

The essential elements of television as a medium, its capabilities and limitations. Practical experience in studio and/or field work.

**COM 377 Live Video Production (4)**

Practicum in live television production. Students will participate in every aspect of producing a live television program. Experiences include research, writing, equipment operation and directing.

Prerequisite: COM 376.

**COM 378 Television News Production (4)**

Fundamentals of broadcasting television news including operation of studio equipment, non-linear editing, and newscast direction in the production of an on-air program. This course will be taught concurrently with JRN 338.

Prerequisite: COM 376.

**COM 380 Special Topics in Communication (2 or 4)**

Various topics in communication theory and practice chosen by department faculty. May be repeated under different subtitles.

Prerequisite: Junior or senior standing and at least 20 credits of COM courses.

**COM 381 Broadcast Operations (4)**

An analysis of non-commercial radio with an emphasis on college broadcasting; includes experience in writing, producing and performing on-air programming for the university's station.

Prerequisite: COM 280 (may be taken concurrently).

**COM 382 Advanced Radio Production (2)**

Training for positions of leadership in the campus radio station. May be repeated for a total of 4 credits.

Prerequisite: COM 381.

**COM 385 Multicultural Communication (4)**

Relationships among culture, communication and perception, and how these relationships are manifested in our daily interactions among people who are racially, ethnically and sexually different from us. Students learn communication practices necessary to create understanding in intercultural encounters. *Satisfies the university general education requirement for a writing intensive course in general education or the major, not both. Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: Junior standing. Completion of the university writing foundation requirement.

**COM 399 Field Experience in Communication (4)**

Faculty supervised field experience incorporating, student performance in community service organizations with directed study assignments and regular discussion sessions. May not be repeated for credit.

Prerequisite: Senior standing; communication majors only, and at least 20 credits of COM courses.

**COM 402 Small Groups (4)**

Identical with SOC 402.



**COM 403      Communication Networks (4)**

The patterns of contact and information transfer in human groups, ranging from the sociometric patterns of small groups, to the formal and informal networks of organizations and the large-scale exchanges of mass societies.

Prerequisite: COM 303.

**COM 405      Advanced Interpersonal Communication (4)**

Advanced current research and theories in relational communication. Shows how communication is the force behind the initiation, development, maintenance, and deterioration of interpersonal relationships.

Prerequisite: COM 305.

**COM 476      Advanced Video Production (4)**

Advanced practice in video production from conception to post-production. Skills involved pre-production research, remote and studio shooting techniques, and script writing for program formats including commercials and documentary television.

Prerequisite: COM 376.

**COM 480      Special Topics Seminar (4)**

Group study of topics of special interest chosen by department faculty and students. May be repeated for credit with the instructor's permission.

Prerequisite: Three COM courses.

**COM 485      Cultural Studies in Communication (4)**

History, theoretical frameworks and applied studies emergent in cultural studies from a communication driven perspective. Students will explore the relationships among communication practices, cultural forms and politics within and among cultures.

Prerequisite: COM 385. COM 303 is highly recommended.

**COM 490      Independent Study (1-4)**

Special research projects in speech communication. May be repeated for a maximum of 8 credits.

Prerequisite: Junior or senior standing, 12 previous credits in the major, permission of instructor and completion of course application form.

**COM 491      Internship (4)**

Experience working with professionals in various performing arts and mass communication settings. May be repeated once in a different setting for up to 8 credits. *Students can only take a maximum of eight internship credits within the department.*

Prerequisite: Junior or senior standing and permission of instructor. (Permission will normally require completion of at least one writing course beyond RHT 160.)

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

Assisting in teaching an undergraduate course in speech communication, and discussions with the supervising faculty member on the principles, methods and problems of such teaching.

Prerequisite: Junior standing and permission of instructor.

## Journalism Program

### Requirements for admission to the journalism major

To be admitted to major standing in journalism, students must complete:

1. RHT 150 and 160 (or otherwise satisfy the writing proficiency requirement) and JRN 200 with an average grade of 3.00 or above.
2. 20 credits of corequisite courses with an average grade of 3.00 or above.

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

To earn the Bachelor of Arts degree with a major in journalism, students must complete:

1. A minimum of 36 credits in journalism, including JRN 200, 300, 402, 403, 404, 411 (or 410), and 440 and any two of the following: JRN 310, 311, 312, 320, 321, 332, 340,350.

2. 8 additional credits from the following for an emphasis in print or broadcast journalism: COM 201, 207, 285, 301, 303, 311, 371, 373 or 403; or for an emphasis in advertising: JRN 341 and 342 or 343, plus an advertising internship (JRN 404); or for an emphasis in public relations: JRN 351, 352 or 353 plus a public relations internship (JRN 404).
3. Corequisites (32 credits) as follows (these courses, where appropriate, may also satisfy general education or college distribution requirements):
  - a. 8 credits from HST 101, 102, 114, 115, 301, 305, 321 or 354.
  - b. 8 credits from ENG 100, 105, 111, 224, 241, 303, 306, 312, 315, 332, 357, 369 or 370.
  - c. 8 credits from PS 100, 110, 241, 305, 327, 372, 373 or 377.
  - d. 4 credits from ECN 150 or 200.
  - e. 4 credits from SOC 100, AN 101 or 102.
4. Upon completion of 92 credits, majors must submit a Senior Portfolio to the program director. The portfolio must include a resume and samples of published work. Deadlines for submitting the portfolios are: October 1 for students completing degree requirements in April, February 1 for students completing degree requirements in June or August, and May 1 for students completing degree requirements in December.

## Requirements for the liberal arts minors in journalism, advertising or public relations

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

A minor in *advertising* requires a minimum of 24 credits in JRN courses, including JRN 200, 340, 341, 342 and 404. The internship (JRN 404) must be taken in advertising for that minor. (JRN 343 or 440 may be substituted for JRN 342.)

A minor in *public relations* requires a minimum of 24 credits in JRN courses, including JRN 200, 350, 351, 352 and an internship (JRN 404) in public relations. Additional course work to comprise the minimum of 24 credits must be selected from the following: JRN 353, 354, 356, 360 and 440.

Journalism majors may not minor in advertising or public relations.

## 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*.

### JRN 190 Journalistic Style (4)

Training in the style of newswriting with a discussion of basic reporting skills, writing of leads, familiarization with the Associated Press style, basic proofreading and copy editing skills.  
Prerequisite: RHT 150.

### JRN 200 Newswriting (4)

Training in the practical aspects of news gathering, interviewing and basic newswriting techniques; a discussion of the various journalism media. Some typing skills required.  
Prerequisite: Completion of RHT 160 or writing proficiency requirement.

### JRN 240 Journalism Laboratory (2)

Work in on-campus publications under the direction of an instructor; may be repeated once.  
Prerequisite: JRN 200.

**JRN 300 Newspaper Editing (4)**

Principles and practices of the newspaper copydesk: copy reading, headline writing, makeup and typography; preparing copy for the printer; some attention to new and developing devices in the print shop, such as those involving the computer.

Prerequisite: JRN 200.

**JRN 310 Advanced Newswriting (2 or 4)**

Gathering information through wide reading and interviewing, writing objective in-depth news reports, and background on current social, political and economic issues.

Prerequisite: JRN 200.

**JRN 311 Public Affairs Reporting (4)**

Practical training in the news coverage of local governments including police protection, fire control and the courts. Discussion of federal and state coverage of stories of public interest.

Prerequisite: JRN 200.

**JRN 312 Feature Writing (2 or 4)**

Practice in writing newspaper and magazine nonfiction features, such as human interest stories and profiles. The course will enable students to develop further their reportorial skills for careers in print journalism. A study of the purposes, styles, types and techniques of the feature story.

Prerequisite: JRN 200.

**JRN 313 Magazine Writing and Freelancing (2 or 4)**

Writing magazine-length nonfiction articles, with some discussion of the differences between newspaper feature stories and magazine pieces, how to write and sell freelance pieces, legal liabilities and rights of the freelance writer, including a discussion of the U.S. copyright laws.

Prerequisite: JRN 312.

**JRN 320 Editorial Writing (2)**

Preparing and writing newspaper opinion and commentary usually found on the editorial page; forms and techniques of editorials and the editorial page.

Prerequisite: JRN 200.

**JRN 321 Reviewing: Books, Theatre, Movies (2)**

Writing newspaper reviews of the literary, visual and performing arts from recent publications, live productions, films and television. Students will be required to purchase tickets and attend various performances.

Prerequisite: JRN 200, 312.

**JRN 330 News Photography (2)**

Fundamentals of black-and-white photographic production; practice in taking still pictures of people and events for use in newspapers and news magazines; darkroom laboratory work in developing photos.

**JRN 332 Radio-Television News (2 or 4)**

Fundamentals and techniques of preparing news for broadcasting, especially the different demands of electronic journalism from those of the print media.

Prerequisite: JRN 200.

**JRN 338 Television News (4)**

Practical application of skills learned in basic reporting classes. Students write and present news copy for a student produced campus cable channel newscast. May be repeated once for additional credit.

Prerequisite: JRN 200 with a 3.0. 332 is recommended.

**JRN 340 Introduction to Advertising (4)**

Advertising in print and electronic media from the standpoint of marketing, its social and legal environment, and strategy decisions in the profession.

Prerequisite: JRN 200.

**JRN 341 The Advertising Medium (4)**

Further study of the advertising industry, including trends, design, marketing strategy and the technical problems of planning a product campaign.

Prerequisite: JRN 340.

**JRN 342 Case Studies in Advertising (4)**

The study of actual case histories of various companies and projects as well as the analysis of problems within a market. An assigned case study is required.

Prerequisite: JRN 340 and 341.

**JRN 343 Direct Approaches in Advertising (2 or 4)**

The study of the effect of direct mail, circular and similar forms of advertising on ad agencies, manufacturers, newspapers, magazines and television and strategies for the future.  
Prerequisite: JRN 340.

**JRN 344 Advertising Copywriting (4)**

The planning, research and writing that goes into promotion of a company, product or person as part of an advertising campaign.  
Prerequisite: JRN 340.

**JRN 350 Introduction to Public Relations (4)**

An overview of the practices of public relations and its potential impact on various audiences. Study of basic public relations tactics, including media relations, community relations, internal communications, public affairs and investor relations.  
Prerequisite: JRN 200.

**JRN 351 External Public Relations (4)**

The study of public relations related to an organization's external audiences such as the news media and local, state and national government officials. Students will study public relations strategies used to interact with these groups, including media relations, legislative lobbying and special events.  
Prerequisite: JRN 350.

**JRN 352 Internal Public Relations (4)**

The study of public relations related to internal audiences of an organization. In-depth discussion of the shaping of internal culture via public relations vehicles such as newsletters/publications, general memos/announcements, videotapes and face-to-face employee communications.  
Prerequisite: JRN 350.

**JRN 353 Public Relations and the News (4)**

A study of the relationship between the public relations practitioner and members of the news media. Students will focus on understanding the differing needs of the news media and on using various public relations vehicles to reach targeted audiences via the media. Course includes writing weekly news releases.  
Prerequisite: JRN 350.

**JRN 354 Case Studies in Public Relations (4)**

The study of actual public relations efforts of various companies and organizations. Students will take on the role of public relations practitioners for a fictitious organization and develop public relations goals, objectives, tactics and programs to deal with situations that affect the organization.  
Prerequisite: JRN 351 or 352.

**JRN 356 Video for Public Relations (2)**

Understanding the elements involved in producing corporate videos, including an introduction to the technology of video, the applications of video to public relations needs and development of the video "treatment" for client presentation.  
Prerequisite: JRN 350.

**JRN 360 Special Topics in Public Relations (2)**

Various specialties offered to students. Subjects change from semester to semester, with some opportunity for independent study. May be repeated under different subtitles.  
Prerequisite: JRN 350.

**JRN 401 Advanced Photojournalism (4)**

Photography in the news media including work in use of 35mm SLR cameras, darkroom techniques and a brief discussion of marketing for publication.  
Prerequisite: JRN 330 or instructor permission.

**JRN 402 Ethical Issues in the Media (4)**

A study of professional ethics with an emphasis on print journalism, though helpful and applicable to electronic journalism as well. Discussion format where students analyze a series of factual problems that arise in daily media operations.  
Prerequisite: JRN 200 or junior standing.

**JRN 403 Law of the Press (4)**

State and federal laws dealing with libel, contempt of court, right of privacy, copyright and other legal matters affecting newspapers, radio, television and other media.

Prerequisite: JRN 300 or pre-law student.

**JRN 404 Journalism Internship (4)**

A full- or part-time internship on a weekly or daily newspaper, radio or television station, or with a public relations or advertising office for one semester. Open only to students in the journalism program, usually in the senior year. May be repeated once in a different medium. *Students can only take a maximum of eight internship credits within the department.*

Prerequisite: JRN 200 and three other JRN courses.

**JRN 405 Supervising High School Publication (4)**

Principles and practices of reporting, news writing, editing, graphics and design, photography, and relevant legal and ethical issues for advisers of high school newspapers, yearbooks and magazines.

Prerequisite: JRN 200 and 300.

**JRN 406 Newspapers in Education (2)**

Study of how newspapers and news magazines can be integrated into the curriculum at both the elementary and secondary levels, and what resources are available to teachers.

**JRN 410 Computer Assisted Reporting (2 or 4)**

Identifying, analyzing and interpreting data for reporting complex, public interest stories utilizing computer database management systems such as Excel and Access.

Prerequisite: JRN 200.

**JRN 411 Reporting with the Internet (2 or 4)**

A course utilizing the Internet and World Wide Web as reporting tools. Students will learn about search engines, URLs and other information useful to developing stories for media.

Prerequisite: JRN 200.

**JRN 440 Graphics and Design (2 or 4)**

Designed to teach basic skills and trends in typography, layout and design with hands-on experience with Quark Xpress, Adobe Photoshop and other software. May be counted towards emphasis in print, public relations or advertising.

Prerequisite: JRN 300 or instructor permission.

**JRN 441 Advanced Graphics and Design (2 or 4)**

Designed to teach advanced skills and techniques in graphics and design of publications with hands-on experience with Quark Xpress, Adobe Photoshop and other software.

Prerequisite: JRN 440 or instructor permission.

**JRN 480 Special Topics in Journalism (2 or 4)**

Various specialties offered to students. Subjects change from semester to semester, with some opportunity for independent study. May be repeated under different subtitles.

Prerequisite: JRN 200.

**JRN 490 Independent Study (2 or 4)**

Individual research projects in journalism.

Prerequisite: Junior or senior standing, 12 previous credits in the major, permission of instructor and completion of the course application form.

# DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

518 VARNER HALL

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**Chairperson:** *David R. Maines*

**Professors emeriti:** *William E. Bezdek, Harry Gold, Nahum Z. Medalia, Jacqueline R. Scherer*

**Professors:** *Peter J. Bertocci, Judith K. Brown, James Dow, David R. Maines, Albert J. Meehan, Terri L. Orbuch, Gary Shepherd*

**Associate professors:** *Abdi Kusow, Lynetta M. Mosby, Cynthia Schellenbach, Suzanne M. Spencer-Wood, Richard B. Stamps*

**Assistant professors:** *Linda Morrison, Joanne E. Reger*

**Chief advisers:** *Gary Shepherd (Sociology) and Peter J. Bertocci (Anthropology)*

The Department of Sociology and Anthropology offers two separate majors leading to a Bachelor of Arts degree. Sociology is the scientific study of society and is of particular interest for students who wish to examine important social problems. Anthropology is the study of humankind in all its aspects, through archaeological, biological, cultural and linguistic research, and fosters the use of this knowledge in addressing human problems. In sociology and anthropology, students are required to study research techniques and acquire skills in theoretical analysis. Both majors are designed to allow maximum flexibility enabling students to pursue their own intellectual interests.

Students may also select a combined major in both disciplines. The department actively participates in the following concentrations: American studies, archaeology, criminal justice, religious studies, social work and urban studies.

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

To earn a Bachelor of Arts with a major in sociology, \*students must complete a minimum of 40 credits, 20 of which must be taken at the 300-400 level including:

1. SOC 100 Introduction to Sociology  
SOC 202 Research Methods  
SOC 203 Social Statistics with Computer Applications  
SOC 400 Sociological Theory
2. One class from each of the following categories:  
Interaction processes: SOC 206, 207, 337, 402  
Social issues: SOC 205, 300, 222, 323, 324, 315, 316, 465  
Social institutions: SOC 240, 326, 305, 320, 327, 328, 335, 381, 425, 437  
Social inequality and change: SOC 301, 331, 336, 344, 345
3. 8 elective credits at the 300-400 level, 4 of which may include anthropology.

\***Note:** no more than 8 credits counted toward the major may be taken in SOC 190, 392, 399 or 480.

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

Students have a choice of three 24 credit major tracks: cultural anthropology (strongly recommended for students planning to go to graduate school in this field; archaeology (strongly recommended for students planning graduate work in archaeology) and general anthropology (recommended for students whose interest in anthropology is broadly educational).

To earn a Bachelor of Arts with a major in anthropology, students must complete a minimum of 40 credits including the following:

CORE:

AN 101 Human and Cultural Evolution  
 AN 102 Culture and Human Nature  
 AN 302 Anthropological Research Methods  
 AN 470 Anthropological Theory

Complete one of the following 24 credit tracks:

1. Cultural anthropology (24 credits):
  - a. One class from each of the following categories:
 

Bio-evolutionary anthropology:	AN 333, 382, 392 or 410
Social anthropology:	AN 200, 210, 271, 300, 305, 307, 310, 320, 322, 331, 337, 374, 375, 401 or 430.
Archaeology:	AN 222, 282, 370, 380, 385
Ethnology of world culture area:	AN 361, 362, 363, 371 or 381
  - b. 8 credits in electives from any AN courses at the 200 level or above.
2. Archaeology (24 credits):
  - a. AN 222
  - b. AN 383 (8 credits)
  - c. 12 elective credits from AN 282, 370, 380, 384, 385
3. General anthropology (24 credits):
 

Students may choose elective credits from any anthropology courses.

Note: LIN 201 is strongly recommended for all AN majors, as is the study of at least two years of a foreign language. Students planning graduate school should also consider taking SOC 202 (Research Methods). No more than 8 credits counted toward the major may be taken in AN/SOC 190, 392, 399 or 480.

## Requirements for the combined liberal arts major in sociology/ anthropology, B.A. program

To earn a Bachelor of Arts with a combined major in sociology/anthropology, students must complete a minimum of 20 credits in sociology and 20 credits in anthropology including the following:

1. SOC 100, 202, 203
2. AN 101, 102
3. SOC 400 or AN 470.

No more than 8 credits counted toward the major may be taken in SOC/AN 190, 392, 399 or 480.

### **Requirements for modified majors in sociology and/or anthropology with a linguistics concentration, B.A. program**

To earn a modified major in sociology with a concentration in linguistics, students must complete a minimum of 20 credits in sociology, including SOC 100, 202, 203, 400 and a minimum of 20 credits in linguistics including LIN 201, 303, 304, and either 403 or 404, and LIN/SOC 376.

To earn a modified major in anthropology with a concentration in linguistics, students must complete AN 101 and 102, plus a minimum of 12 additional credits in anthropology and 20 credits in linguistics, including: LIN 201, 303, 304, and either 403 or 404, and either LIN/AN 374 or 375.

### **Requirements for a liberal arts minor in sociology or anthropology**

To earn a minor in sociology, students must complete SOC 100 plus a minimum of 16 additional credits in sociology, 12 of which must be at the 300-400 level. To earn a minor in anthropology, students must complete AN 101 and 102 plus a minimum of 12 credits in anthropology courses at the 300-400 level.

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

Generally a cumulative grade point average (GPA) of 3.00 is required in courses included in the minor, with no single course grade below 2.0. Second undergraduate degree candidates completing the minor may be required to take additional courses at Oakland University beyond the stated minimums. Students must consult with the secondary education minor adviser in the department.

The secondary teaching minor in sociology requires a minimum of 24 credits including:

1. Core: SOC 100, 205, 331.
2. One course from each of the following areas:
  - a. Social Problems: SOC 240, 300 or 315.
  - b. Social Inequality: SOC 301, 336 or 352.
  - c. Interpersonal Relations: SOC 335, 337 or 402.
3. In addition SED 427, Methods of Teaching Secondary Students, is required.

### **Two-plus-two transfer agreement program in sociology with a specialization in criminal justice**

The Department of Sociology/Anthropology offers the B.A. in sociology with a specialization in criminal justice as part of a two-plus-two agreement with Oakland Community College. This agreement allows students who earn an Associate of Applied Science Degree in criminal justice or in law enforcement and corrections at Oakland Community College in Auburn Hills under the terms of the agreement to transfer to Oakland University and earn a B.A. in sociology with a criminal justice specialization. Students must meet the requirements at both institutions; at OU that means completing university general education, U. S. diversity, college distribution and major requirements. A brochure detailing the guidelines and required courses is available in the department and in the College of Arts and Sciences Advising Office.

### **Departmental honors**

To be a candidate for departmental honors in sociology, students must have taken at least 20 of their major credits at the 300-400 level, have taken a minimum of 20 credits of their sociology major course work at Oakland University, have earned a minimum GPA



of 3.60 in major course work at Oakland, have successfully completed SOC 203 Social Statistics, and receive recommendations from two departmental faculty members.

To be a candidate for departmental honors in anthropology, students must have taken at least 16 credits in the major at the 300 level or above, have taken a minimum of 20 credits of their anthropology major course work at Oakland University, have earned a minimum GPA of 3.60 in major course work, and receive recommendations from two departmental faculty members.

## 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*.

### ANTHROPOLOGY

#### AN 101 Human and Cultural Evolution (4)

Introduction to physical anthropology and archaeology as applied to human and cultural evolution. Stress placed on human adaptation to environment. *Satisfies the university general education requirement in the social science knowledge exploration area.*

#### AN 102 Culture and Human Nature (4)

Introduction to cultural and social anthropology with emphasis on the continuing human adaptation to the environment and especially the interactions among culture, society and natural environment. *Satisfies the university general education requirement in the social science knowledge exploration area or global perspective knowledge exploration area, not both. Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

#### AN 190 Current Issues in Anthropology (4)

Designed for the general student, this course examines issues of current interest in anthropology. Topic will be announced at the time of offering.

#### AN 200 Global Human Systems (4)

Introductory survey of the worldwide distribution, variation and interconnections of cultural, economic and political systems. Basic concepts in the field of human geography and other social sciences, as relevant, will also be introduced. Identical with IS 200 and GEO 200. *Satisfies the university general education requirement in the global perspective knowledge exploration area.*

#### AN 210 Applied Anthropology (4)

Introduces applied anthropology through an examination of cross-cultural training in various fields, such as business, education, economic development, cultural resource management and medical anthropology. Various data collection methods and techniques as well as interpretive strategies are examined.

Prerequisite: AN 102.

#### AN 222 Introduction to Anthropological Archaeology (4)

Introduces the field of anthropological archaeology through examination of theory, data collection methods and techniques, and interpretive strategies used to understand human histories, life-ways and cultural processes.

#### AN 271 Magic, Witchcraft and Religion (4)

Anthropological theories of magic, witchcraft and religion: human interaction with beings, creatures and forces that manifest extraordinary powers; folk beliefs of nonliterate people; and transformation of social systems by religious movements. Identical with REL 271.

Prerequisite: AN 102 or sophomore standing.

#### AN 282 The Prehistoric Origins of Civilization (4)

The development and spread of culture in the period before written history, using archaeological evidence from Neolithic Old World and New World sites. Cultural evolution from early farming and settlement to the rise of complex civilization.

Prerequisite: AN 101.

**AN 300 Culture, Society and Technology (4)**

Technology has played a critical role in all human evolution. This course provides a historical overview of the ways in which culture has shaped technology and how technology changes cultures. It emphasizes the impact of technology on modern cultures, especially technology emanating from the Western industrial revolution. *Satisfies the university general education requirement in the social science knowledge exploration area or the Western civilization knowledge exploration area, not both.*

**AN 302 Anthropological Research Methods (4)**

Techniques of anthropological research emphasizing field research methods in cultural anthropology. May include some field work practice.

Prerequisite: AN 102 or SOC 100.

**AN 305 The Life Course in Anthropological Perspective (4)**

Socialization from infancy to old age will be considered with examples drawn from a variety of non-industrial societies as well as the literature on primates. Theories of human development across cultures will be viewed in light of this evidence. Identical with WS 305.

Prerequisite: AN 102 or WS 200.

**AN 307 Culture and Society Through Film (4)**

The systematic study of selected peoples from different cultures through the ethnographic film and appropriate readings, lectures and discussions. Students learn to evaluate cultural data according to various anthropological concepts and methodologies. *Satisfies the university general education requirement in the social science knowledge exploration area for 2005-2006.*

Prerequisite: Junior standing or permission of instructor.

**AN 308 Native American Art (4)**

Identical with AH 308. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

Prerequisite: 4 credits in art history.

**AN 309 Pre-Colombian Art (4)**

Identical with AH 309.

Prerequisite: 4 credits in art history or IS 250.

**AN 310 Psychological Anthropology (4)**

Focuses on the relationship of culture and the individual; considers personality, perception, dreams, and other areas of psychological functioning in cross-cultural perspective and in relation to culture and personality theory.

Prerequisite: AN 102.

**AN 320 Law and Society (4)**

Identical with SOC 320.

Prerequisite: SOC 100, 205 or AN 102 or permission of instructor.

**AN 322 Subsistence and Technology in Nonindustrial Society (4)**

Technologies of different cultures; implications for the individual, society and cultural survival; ecology of tribal, peasant and industrial cultures with emphasis on subsistence technology of non-Western cultures. Identical with ENV 322.

Prerequisite: AN 102.

**AN 331 Racial and Ethnic Relations (4)**

Identical with SOC 331. *Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: SOC 100, 205 or permission of the instructor.

**AN 333 Medical Anthropology (4)**

Interaction between biological, ethnopsychiatric and sociocultural environments in health, illness and treatment. Includes historical, organizational, demographic, ecological and other problems in health care delivery.

Prerequisite: AN 102 or SOC 100 or PSY 100.

**AN 337 Women's Lives in Cross-Cultural Perspective (4)**

The lives of women in a variety of tribal and peasant societies, noting how beliefs, rituals and taboos shape the stages of the female life course and how culture influences women's reproductive and economic roles. Identical with WS 337.

Prerequisite: AN 102 or WS 200.

**AN 361 Peoples and Cultures of India (4)**

A survey of contemporary society and culture on the Indian subcontinent, with focus on India, Pakistan and Bangladesh; emphasis on social structure, folk religion and the problems of socio-cultural change.

Prerequisite: AN 102 or IS 240.

**AN 362 Peoples and Cultures of China (4)**

An anthropological study of China, stressing the variety of cultural and ecological adaptations characteristic of that complex society.

Prerequisite: AN 102 or IS 210.

**AN 363 The Asian American Experience (4)**

History of Asian migration to North America and adjustment patterns of Asian American immigrants. Students will study Americanization by making maps, charting kinships, interviewing informants, collecting and documenting life histories, analyzing folklore and taking photographs.

Prerequisite: AN 102 or SOC 100 or permission of instructor.

**AN 370 Archaeology of Mesoamerica (4)**

The pre-Hispanic culture of Mexico and Guatemala, the Aztecs and Mayas, and their neighboring and derivative cultures. Detailed discussion of the major archaeological sites.

Prerequisite: AN 101 or AN 102.

**AN 371 Peoples and Cultures of Mexico and Central America (4)**

Anthropological studies of Indian and Mestizo societies in Mexico and Guatemala, including their separate socio-economic patterns and their integration into a dualistic social system.

Prerequisite: AN 102 or IS 250.

**AN 372 Indians of South America (4)**

A survey of the native South Americans. Includes warriors of the jungles, peasants and herders of the mountains, nomads of the plains and forests, and subsistence fishermen of the southern coasts.

Prerequisite: AN 102 or IS 250.

**AN 374 Cross-Cultural Communication (4)**

Identical with ALS 374. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**AN 375 Language and Culture (4)**

Identical with ALS 375.

**AN 380 Archaeology of North America (4)**

The evolution of native North American cultures (including Mesoamerica) from 50,000 B.C. to 1500 A.D., with emphasis on the ecological factors in the development of culture areas.

Prerequisite: AN 101.

**AN 381 Peoples of North America: Indians and Inuit (Eskimos) (4)**

The culture of certain North American societies and their adaptation to Western contact. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

Prerequisite: AN 102.

**AN 382 Advanced Physical Anthropology (4)**

The emergence and diversification of the human species in relation to the morphology and ecology of both modern and fossil man, including physical and physiological variation (sex, race and age), climatic adaptation and population genetics.

Prerequisite: AN 101.

**AN 383            Methods in Anthropological Archaeology (4 or 8)**

Instruction and field research including site location, excavation and artifact analysis, and conservation. If taken once for 4 credits, may be repeated once more for 4 credits.

Prerequisite: AN 101.

**AN 384            Museum Studies in Archaeology (4 or 8)**

The organization, goals and funding of archeological museums. Career preparation including hands-on practical experience in acquisitions, cataloging, preservation, display design and preparation, display evaluation, museum education and outreach programs.

Prerequisite: AN 101 or 383 or permission of instructor.

**AN 385            Historical Archaeology (4)**

Study of historic cultures, lifeways, and processes of change through combined analysis of documents and material culture, such as settlement patterns, architecture, gravestones, and excavated ceramics, glass or metal. Special attention given to intersecting cultural structures of gender, race, ethnicity, and class. *Identical with WS 385. Satisfies the university general education requirement in the social science knowledge exploration area. Satisfies the university general education requirement in U.S. diversity.*

Prerequisites: AN 101 or AN 102 or permission of instructor.

**AN 391            Primate Behavior (4)**

Various bio-social factors that aid the nonhuman primates in their adaptation to the environment, implications for human behavior, classroom discussions and field studies.

Prerequisite: AN 101 or 102 or PSY 100 or SOC 100 or HRD 301.

**AN 392            Current Problems in Anthropology (2 or 4)**

Seminar in which a topic or problem is studied in depth. Each seminar requires independent readings and writing.

Prerequisite: Permission of instructor.

**AN 399            Field Experience in Anthropology (4)**

Field experience in anthropology with faculty supervision. An academic project related to the departmental discipline that incorporates student performance in an occupational setting. May not be repeated for credit.

Prerequisite: Junior/senior standing; 16 credits in anthropology, of which at least 8 must be at the 300/400 level, and permission of the instructor.

**AN 401            Social Anthropology (4)**

Examines social structure and social organization in anthropological perspective. Entails the study of economic, political, religious and kinship systems in the social life of man.

Prerequisite: AN 102.

**AN 410            Human Adaptation (4)**

Examines current theory on the cultural and biological adaptation of human groups to natural and social environments. Identical with ENV 410.

Prerequisite: AN 101, 102 or 322.

**AN 430            Systems of Wealth and Power in Anthropological Perspective (4)**

Concepts and methods of political and economic anthropology, emphasizing the interrelated state of political and economic phenomena, with particular reference to preindustrial, non-Western societies.

Prerequisite: AN 102.

**AN 470            Theory in Anthropology (4)**

Surveys the major developments in the history of anthropological theory and traces their impact on present trends in the field. Introduces current theoretical perspectives.

Prerequisites: AN 102. AN or SOC major.

**AN 480            Independent Study and Research (2 or 4)**

A tutorial in which the student will pursue a course of reading and research with the instructor. May be repeated only once for credit.

Prerequisite: Permission of instructor.

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

Supervised participation in teaching an undergraduate course in anthropology, combined with readings and discussion of teaching objectives and methods appropriate for anthropological presentation. May be taken only once for credit toward a major.  
Prerequisite: Senior anthropology major and permission of instructor.

**SOCIOLOGY****SOC 100      Introduction to Sociology (4)**

Introduction to the basic concepts of sociology relating to the study of people as participants in group life. Particular attention is given to culture, socialization and self development, social class, and major social institutions. *Satisfies the university general education requirement in the social science knowledge exploration area. Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

**SOC 190      Current Issues in Sociology (4)**

Designed for the general student, this course will examine issues of current interest in sociology. The topic will be announced at the time of the offering.

**SOC 202      Introduction to Methods of Social Research (4)**

The collection, organization, analysis and interpretation of social data; elementary techniques of understanding and using quantitative evidence in sociological research.

**SOC 203      Social Statistics with Computer Applications (4)**

Introduction to social statistics emphasizing statistics and data analysis with the aid of computer-based statistical applications. Familiarizes students with the logic of behavioral statistics, and the computation and interpretation of statistical analysis.  
Prerequisite: SOC 100, 202.

**SOC 205      Current Social Problems (4)**

Presents sociological approaches to analyzing social problems. Particular attention is given to evaluation of the causes and consequences of social problems, as well as of their proposed solutions.

**SOC 206      Self and Society (4)**

Examines the reciprocal relationship between the individual and the group. Emphasizes the social roots of human nature, the self, social interaction, definitions of reality, socialization and social character. *Satisfies the university general education requirement in the social science knowledge exploration area.*

**SOC 207      Human Sexuality (4)**

Examines human sexuality from a societal and interpersonal context. Includes methodological and conceptual issues in the study of sexuality; socialization and control of sexuality; sexuality as a social process; the influence of culture, race, and gender; and the social aspects of biological issues. Identical with WS 207.  
Prerequisite: SOC 100 or 206.

**SOC 222      Sociology of Mental Illness (4)**

Examines social aspects of mental illness, such as impact of social inequalities, role of life stressors and supports, structures of confinement, self-help and human rights movements, narratives of experiences, trends of response to difference and distress.  
Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 240      Sociology of Crime and Punishment (4)**

An introduction to the study of crime and the system of criminal justice in the United States. Provides an overview of different theories of crime, the production of crime statistics, types of offenses, the role of the police, courts and correctional agencies, and public policy. Also includes a comparison of street crime with white-collar crime. *Recommended for all students in the criminal justice concentration.*  
Prerequisite: SOC 100.

**SOC 300 Alcohol, Drugs and Society (4)**

An overview of the sociology of substance use and abuse. Includes a review of sociological perspectives, social control of alcohol and drugs, descriptions of alcohol/drug behavior and treatment programs. Also explores ways in which substance abuse problems can be addressed by policy makers, health care professionals and practitioners in the field of substance abuse.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 301 Social Stratification (4)**

The concepts of class, caste and race in relation to social conflict and social integration. Students will study these problems in a cross-cultural perspective, emphasizing comparative materials.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 305 Sociology of Religion (4)**

An analysis of the social components of religious experience, meaning and behavior; emphasis on the relationship between organized religions and other social institutions and such processes as conversion, commitment, sectarianism, accommodation and secularization. Identical with REL 305.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 308 Population Dynamics (4)**

Historical analysis of world population growth, focusing on relationships among population size, population policy, and social and economic development.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 314 Introduction to Social Work (4)**

A study of the social work profession and the social context of welfare policies; the relationships between social structure and the development of social work practice; and public and private welfare organizations.

Prerequisite: SOC 100 or two courses in psychology or human resource development.

**SOC 315 Social Welfare Policies (4)**

Survey of the development of social welfare programs in the U.S. and internationally. Issues related to the problems of poverty, policy analysis and program evaluation related to social welfare in the U.S. and other countries are examined.

Prerequisite: SOC 100 or 314.

**SOC 316 Theory and Practice of Social Work (4)**

Provide a conceptual framework for the practice of social work in diverse client settings while preparing students with necessary skills for internship placements.

Prerequisite: SOC 314.

**SOC 320 Law and Society (4)**

Explores the concept of law and its expression in different societies and cultural contexts. The comparative development of legal institutions is studied in relationship to social structure. The organization of the legal system and profession is studied as related to the capacity of the law to affect behavior as an instrument of social control. Identical with AN 320.

Prerequisite: SOC 100, 205, AN 102 or permission of the instructor.

**SOC 323 Juvenile Delinquency and its Social Control (4)**

Nature and types of juvenile delinquency, the relation of juvenile delinquency to the stress of adolescence and the specific social situation, methods of preventing delinquency or its recurrence.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 326 Family and Community Processes (4)**

Introduction to theories, methods and research on community sociology. Emphasis on prevention and intervention in the community setting. Provides conceptual foundation of the field with an overview of the integration of theory, research and practice in individual, family and community processes.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 327 Police and Society (4)**

A study of police techniques and problems, of deviant citizen-police relations, and of social control in a field where power is high and visibility is relatively low. Topics include the defenses against corruption and the containment concept of police.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 328      Sociology of Health and Medicine (4)**

The sociological study of medicine and the uses of sociology in medicine, definitions of health and illness, disease and death, health care occupations, medical malpractice, the organization of health services and trends in health and medicine.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 330      The Sociology of Deviance (4)**

An overview of the sociology of deviance, including theoretical approaches, the social construction of deviance, and contemporary empirical research.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 331      Racial and Ethnic Relations (4)**

A study of racial, ethnic and religious groups, particularly those of the U.S., emphasizing their historical development, problems of adjustment and assimilation and contemporary problems and trends. Identical with AN 331. *Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 335      The Family (4)**

A comparative and historical study of the family. Identical with WS 335.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 336      Sociology of Gender (4)**

The social construction of femininity and masculinity through social interaction and social institutions. Focus on education, family, media, politics, economy and sport. Identical with WS 336.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 337      Interpersonal Relationships (4)**

Focuses on interdisciplinary research of social and personal relationships, concentrating on how scholars investigate relational phenomena; the development, maintenance and dissolution of relationships; relational or couple processes; and influences of networks, norms, gender, ethnicity and social structure.

Prerequisite: SOC 100 or 206.

**SOC 344      Social Movements (4)**

Examines the theoretical and empirical aspects of the origins, mobilization, organization, development and decline of social movements. Will focus on American, international and global social movements.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 345      Urban Sociology (4)**

The social structure, culture and ecology of early and contemporary urban communities; institutional responses to the problems of modern urban life.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 346      Communities (4)**

Focuses on the forms and functions of local communities, including neighborhoods and social networks. Both theoretical and applied implications of these structures for community organization and development are explored.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 352      Women and Work (4)**

A sociological study of women's domestic and labor market activity in historical context, with emphasis on understanding the causes and consequences of sex segregation. Identical with WS 352.

Prerequisite: SOC 100 or WS 200.

**SOC 371      Forms and Effects of Mass Communication (4)**

Techniques of disseminating ideas and information through the mass media; evaluation of the effect of mass media on values of individuals and policies of institutions. Identical with COM 371.

Prerequisite: SOC 100 or sophomore standing.

**SOC 373 Social Control of Mass Media (4)**

The major sociological factors that control the informational content of the mass media; differences between the structures and processes of control in the print and electronic sectors of the media. Identical with COM 373.  
Prerequisite: SOC 371.

**SOC 376 Language and Society (4)**

Identical with ALS 376.

**SOC 381 Theories of Modern Organizations (4)**

Emphasizes degree to which modern society is based upon formal organization. Topics include: theories of human organization, as well as the study of bureaucracies, features of organizations and the effects of organization on American culture.  
Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 392 Current Problems in Sociology (2 or 4)**

Seminar in which a topic is studied in depth. Each seminar requires independent readings and writing.  
Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 399 Field Experience in Sociology (4)**

Field experience in sociology with faculty supervision. An academic project related to the departmental discipline that incorporates student performance in an occupational setting. May not be repeated for credit.  
Prerequisite: Junior/senior standing; 16 credits in sociology, of which at least 8 must be at the 300/400 level, and permission of the instructor.

**SOC 400 Sociological Theory (4)**

Major theoretical foundations of sociology including conceptual contributions of both classic and contemporary theorists.  
Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 402 Small Groups (4)**

The study of small group relations and the informal understandings, codes and conventions that they generate. Considers dynamics of individuality, leadership, conformity and esprit de corps in a group setting. Identical with COM 402.  
Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 420 Research and Policy Evaluation in Criminal Justice (4)**

Overview of problems of conducting research and policy evaluation in criminal justice agencies, including history of such research and "problem oriented" approach to policing.  
Prerequisite: SOC 202, 204, or equivalent, and SOC 240. SOC 202 and 204 may be taken concurrently.

**SOC 425 Corrective and Rehabilitative Institutions (4)**

Overview of prison and correctional systems in the United States. Includes reviews of the historical development of corrections and current issues in corrections, including sentencing practices, overcrowding, race relations, budget constraints, AIDS and substance abuse. Explores ways in which these problems are addressed by criminal justice practitioners.  
Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 430 Internship in Criminal Justice (2 or 4)**

Field placement and supervision of students in police, prison, and parole organizations and agencies.  
Prerequisite: Enrollment in criminal justice concentration and written permission of instructor.

**SOC 432 Internship in Social Work (4)**

Field placement in a social service agency in which students are supervised by professional social workers. Students learn how to handle process notes, develop interviewing skills, investigate community resources and interpret agency policies.  
Prerequisite: SOC 314 and 315; enrollment in the concentration and approval of concentration coordinator.



**SOC 437            Sociology of the Courts (4)**

The roles of judges, court officers, jury and attorneys are described and analyzed in the context of their professional matrix.

Prerequisite: SOC 100 and 240.

**SOC 460            Political Sociology (4)**

Sociological factors that influence distribution of power within a society: political communication, maintenance of political consensus, the revolution process, the structure of political parties and the emergence of new states.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 465            Sociological Perspectives on Aging (4)**

Recent sociological perspectives on aging: topics include status of persons approaching and past retirement age, family and community roles and relations, and occupational and political participation.

Prerequisite: SOC 100, 205 or permission of the instructor.

**SOC 480            Independent Study and Research (2 or 4)**

Directed individual reading and research.

Prerequisite: Permission of instructor.

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

Supervised participation in teaching an undergraduate course in sociology, combined with readings and discussion of teaching objectives and methods appropriate for sociological presentation. May be taken only once for credit toward a major.

Prerequisite: Senior sociology major and permission of instructor.

# BIOCHEMISTRY PROGRAM

**Coordinator:** *Arthur W. Bull (Chemistry)*

**Biochemistry Committee:** *Denis M. Callewaert (Chemistry), Arik Dvir (Biological Sciences), Thaddeus A. Grudzien (Biological Sciences), Anne L. Hitt (Biological Sciences), Kathleen H. Moore (Chemistry)*

This interdepartmental program offers a Bachelor of Science degree with a major in biochemistry. 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 a career in biochemical research, graduate study in biochemistry or molecular biology, or professional education in medicine, dentistry or other health sciences.

The specialized research facilities for cellular and analytical biochemistry at Oakland University include tissue culture facilities, an ultracentrifugation laboratory, isotope laboratories with beta and gamma counters, equipment for gas and high pressure liquid chromatography, and GC/MS, UV-vis, fluorescence, NMR, EPR, laser Raman, and atomic absorption spectrometers. Recent biochemical instrumentation acquisitions include a flow cytometer, a radioisotopic image analyzer, automated capillary electrophoresis, confocal microscope and DNA sequencer.

Undergraduate students in the biochemistry program have access to faculty research laboratories and are encouraged to participate in various ongoing research programs such as studies in metabolism, gene expression, hormone action, immunochemistry, molecular biology, molecular genetics and macromolecular structure. The minimum requirement for a B.S. in biochemistry is 124 credits, including course work in biological sciences (16 credits), chemistry (32 credits) and biochemistry (12 credits) as detailed below. No more than 8 credits of course work used to fulfill the requirements of a major or minor in biology may be used to fulfill the requirements of 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.

## Admission to major standing

Students may apply for major standing after completion of 18 credits of chemistry and at least 8 credits of biology from the requirements listed below, with a grade point average (GPA) of at least 2.50 in those courses. The biochemistry committee must approve major standing and a detailed plan of study at least three semesters prior to graduation.

## Requirements for the Bachelor of Science degree in biochemistry

Students wishing to select the biochemistry major should prepare a detailed plan of study in consultation with a member of the Biochemistry Committee. To earn the Bachelor of Science degree with a major in biochemistry, students must complete:

1. Sixteen or more credits of biology chosen in consultation with the biochemistry program coordinator from the following courses: BIO 111, 113, 309, 310, 319, 320, 321, 322, 323, 324, 341 or 393. Other appropriate courses may be approved on an individual basis.
2. Thirty-two credits of chemistry, including CHM 157-158 (or 167-168), 234-235, 237, 325, 342 and 343.

3. Twelve or more credits of biochemistry including BCM 453, 454 and 457 and additional credits selected from the following courses: BIO 407, 423, 439, 440, 441; CHM 458, 553, 554, 581; or BCM 490.
4. Corequisites in mathematics (MTH 154 and 155) and physics (PHY 151 and 152). STA 226 and either CHM 220 or CSE 125 are recommended electives.
5. Admission to major standing as described above at least three semesters prior to graduation.

## Program honors and scholarships

Program honors may be granted to graduating seniors in biochemistry on the basis of high academic achievement (minimum 3.60 overall grade point average) and excellence in biochemical research at Oakland University.

The Professional Biochemistry Scholarship sponsored by Oxford Biomedical Research Inc. will be awarded to a junior biochemistry major who shows promise for achievement in the field based on performance in BCM 453/454/457 and evaluation by the Biochemistry Committee.

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

The Bachelor of Science degree with a major in biochemistry provides students with all the requirements for a concentration in preprofessional studies with the exception of PHY 158, which needs to be completed. The Bachelor of Science degree and the Bachelor of Arts degree with a major in chemistry provide students with all the requirements for a concentration in preprofessional studies with the exception of PHY 158, which must be completed, and five courses in biology/biochemistry. Students interested in a medical career should refer to the concentration in preprofessional studies in medicine, dentistry, optometry and veterinary medicine (*Other Academic Options*) and consult with the biology or biochemistry adviser and with the preprofessional studies adviser.

## Course Offerings

The program 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*.

### **BCM 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 CHM 453.  
Prerequisite: CHM 235.

### **BCM 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 CHM 454.  
Prerequisite: BCM/CHM 453.

### **BCM 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 CHM 457.  
Prerequisite: BCM/CHM 453, which may be taken concurrently.

**BCM 489            Biotechnology Internship (2, 3 or 4)**

The application of biochemical principles and methods in an off-campus technical setting that has been pre-approved by program committee. Does not count toward major credit. Graded S/U. May be repeated for a maximum of 6 credits.

Prerequisite: BCM 453, approved major standing, permission of instructor.

BCM 454, 457 should be taken concurrently.

**BCM 490            Biochemistry Research (1, 2, 3 or 4)**

Laboratory experience in biochemical research requiring at least four hours of work per week per credit. May be repeated for credit. Graded S/U or numerically by written arrangement with faculty research mentor. Graded option requires a written report of research accomplishments and is limited to a total of 4 credits.

Prerequisite: Permission of instructor.

# ENVIRONMENTAL HEALTH PROGRAM

**Director:** *Dagmar Cronn (Chemistry)*

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 as well as the private sector, and for graduate study in such fields as toxic substance management, public health, toxicology, pharmacology, industrial hygiene and environmental planning.

Graduates of the program should be able to identify and evaluate a broad range of environmental problems. In addition, they should be able to offer solutions, anticipate hazards and prevent future problems. Studies include such areas as health in the work place, toxic substance regulations, applied ecology, pollution prevention, air resources, water resources and public environmental policy.

## Requirements for the B.S. degree

To earn a Bachelor of Science degree with a major in environmental health, students must complete a minimum of 128 credits:

1. An introductory prerequisite core of a minimum of 34 credits, to be completed with a 2.00 average before major standing is awarded, including BIO 111; CHM 157 (or 167), 158 (or 168); PHY 151, 152 (or, for students not considering graduate work, PHY 101 and 102), and 8 credits in mathematics above MTH 121 or 141, usually including STA 225. MTH 154 is strongly recommended (MTH 155 is recommended for students considering graduate education).
2. Major standing to be awarded three semesters before graduation, and before a student achieves senior status, otherwise graduation may be delayed.
3. A program of a minimum of 54 credits in advanced courses, including CHM 325 and ENV 308 plus courses required by one of the four specializations, *which must be approved by the program director*. At least 36 credits must be in courses at the 300 level or above, and 30 credits must be in approved courses numbered 350 and above. Except for ENV courses, no more than 24 credits in any one course rubric (such as BIO, CHM, etc.) may be used to fulfill the major. At least 16 of the credits taken at the 300 level or above must be taken at Oakland University.
4. Completion of one of the specializations described below. Students desiring to complete two specializations must take 16 credits of nonduplicative course work.

## Specialization in occupational health and safety

Based upon an extensive curriculum planning study, this option combines environmental and occupational health perspectives in scientific and technical courses designed to provide preprofessional training for careers relating human health and safety factors to working conditions. Students learn to recognize, evaluate and control actual and potential environmental hazards, especially undesirable occupational health and safety conditions and practices. The option emphasizes environmental and occupational toxicology.

Required course work includes BIO 207 or 321; CHM 234-235; ENV 355, 386, 387, 388, 474, 484 (or OHS 446).

Recommended electives include BIO 301; BIO 325 or CHM 453; ENG 381 or 382; ENV 364, 368, 452, 461, 470, 486; PS 353; OSH 445.

*Elective courses for the specialization must be approved by the program director.*

### **Specialization in public health**

This option emphasizes the protection of human health through the management, control, and prevention of environmental factors that may adversely affect human health. Many opportunities exist at local and state levels of government to improve health and environmental quality, focusing on toxic substance control, food protection, water quality and waste management.

Required course work includes ENV 355, 356 and 461; BIO 207 or 321; BIO 307 or 319; ENV 484 or OHS 446; ENG 381 or 382.

Recommended electives include BIO 205, 375, 393, 423; CHM 234, 310, 412, 413; ENV 364, 368, 373, 384, 386, 388, 452, 484, 485, 486; PS 302, 350, 353 or PS/ENV 354.

*Elective courses for the specialization must be approved by the program director.*

### **Specialization in environmental and resource management**

This option emphasizes the wise use of resources, especially as they affect human health and well-being. Program electives offer training for a variety of field and laboratory opportunities including planning, resource management, environmental protection and public policy.

Required course work includes ENV 355, 461; BIO 301 and one additional laboratory course; PS 302 or 350 or PS/ENV 354.

Recommended electives include BIO 207 or 321, 303, 311, 327, 333, 373, 375; CHM 234-235; ENG 381 or 382; ENV 322, 368, 373, 386, 470, 484, 485, 486; PS 302, 305, 350, 353, PS/ENV 354.

*Elective courses for the specialization must be approved by the program director.*

### **Specialization in toxic substance control**

This option is designed to provide training for professional opportunities in environmental toxicology, environmental health chemistry, and toxic substance management. The major focus is on toxicological principles and their applications to the production, distribution and release of toxic substances, especially as they may cause environmental problems. Risk assessment, problem solving and legislative compliance are emphasized.

Required course work includes BIO 301; CHM 234-235; BIO 325 or CHM 453; ENV 461, 486, and 484 (or OHS 446).

Recommended electives include BIO 207 or 321, 375; CHM 310, 412, 413, 454, 470, 581; ENG 381 or 382; ENV 364, 368, 386, 387, 388, 452, 470, 474; PS 302, 353, PS/ENV 354.

*Elective courses for the specialization must be approved by the program director.*

### **Requirements for the liberal arts minor in environmental health**

The following 22 credits are required for this minor: ENV 308, 355, 356 or 373 or 452, 368 or 461, 484 or 485 or 486 plus six credits of approved electives. An approved Concentration/Minor Authorization Form must be filed three semesters prior to graduation.

### **Course Offerings**

The program 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*.

**ENV 308 Introduction to Environmental Studies (4)**

Survey of a broad range of environmental issues from a scientific viewpoint. Basic ecological and thermodynamic principles with applications to air, water and land pollution; human demography and food supplies; alternative futures. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

Prerequisite: Sophomore standing.

**ENV 312 Energy and the Environment (4)**

Basic facts of energy: sources, forms, the roles it plays, and its ultimate fate. Includes study of laws limiting energy utilization, energy flow patterns, effects of energy use on the environment and analyses of current energy-related problems.

Prerequisite: Sophomore standing; mathematics proficiency at the MTH 011 level.

**ENV 322 Subsistence and Technology in Nonindustrial Society (4)**

Identical with AN 322.

**ENV 350 Selected Topics (1, 2, 3 or 4)**

Technical studies in special areas; topics vary with semester. May be repeated for credit.

Prerequisite: Junior standing and permission of instructor.

**ENV 354 Global Environmental Governance (4)**

Identical with PS 354. *Satisfies the university general education requirement in the knowledge application integration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both.*

Prerequisite for writing area: Completion of the university writing foundation requirement.

Prerequisite for the applications area: Completion of the general education requirement in the social science knowledge exploration area.

**ENV 355 Public and Environmental Health I (3)**

Emphasizing a public health perspective, this course surveys human health issues along with control strategies to reduce risk. Topics include: epidemiology, disease vectors, drinking water, occupational health, food protection, solid and hazardous wastes.

Prerequisite: Sophomore standing.

**ENV 356 Public and Environmental Health II (3)**

A continuation of the topics in ENV 355, with an emphasis on administrative practice, disease prevention, health promotion, regulatory frameworks and compliance.

Prerequisite: Sophomore standing.

**ENV 364 Hazardous Materials Emergency Response (3)**

Review of standard operating procedures when dealing with responses to hazardous materials incidents. Planning procedures, policies and application of procedures for incident levels, personal protective equipment, decontamination, safety, communications and governmental reporting are stressed.

Prerequisite: Sophomore standing.

**ENV 368 Fundamentals of Hazardous Materials Regulations (3)**

An introduction to the regulations governing the manufacture, use, storage, transportation, treatment and disposal of hazardous materials. Related management issues of liability, compliance, ethics, assessment, remediation and clean-ups will be discussed.

Prerequisite: Sophomore standing; ENV 386 recommended.

**ENV 373 Water Resources (3)**

Analysis of natural water systems, introductory hydrology, the chemistry of eutrophication, and wastewater systems. Emphasis is on applications, including water pollution abatement and management strategies.

Prerequisite: CHM 158 (or 168) and sophomore standing.

**ENV 384 Global Environmental History (4)**

Identical with HST 384.

Prerequisite: RHT 160.

**ENV 386 Principles of Occupational Health (3)**

Recognition, evaluation and control of chemical and physical stresses in the workplace that may adversely affect human health.

Prerequisite: Sophomore standing; BIO 113, CHM 234; physics is desirable.

**ENV 387 Industrial Hygiene Field Survey (3)**

Selected subjects of current interest in occupational and environmental health and review of occupational health programs at local industrial companies through site visits.

Prerequisite: ENV 386 recommended.

**ENV 388 Occupational Health Control Methods (3)**

Theory and practice in the control of occupational health hazards, including personal protective equipment, noise, radiation, ventilation and engineering design.

Prerequisite: ENV 386 recommended.

**ENV 390 Directed Studies (1, 2, 3, 4 or 6)**

Studies in special areas, often individually arranged. May be repeated for credit. Preparation of study plan and instructor's approval are required before registration. Graded S/U.

Prerequisite: Permission of instructor.

**ENV 410 Human Adaptation (4)**

Identical with AN 410.

**ENV 452 Pollution Prevention (3)**

Problems of air and water pollution, solid waste management, hazardous material handling, life cycle analyses and pollution control examined from several viewpoints. Solutions to pollution problems, control technologies, practical aspects and compliance with regulations.

Prerequisite: Sophomore standing, CHM 158 (or 168).

**ENV 461 Environmental Law and Policies (3)**

Legislative and legal perspectives on environmental and occupational health issues. Special emphasis on current laws and regulations, as well as their impact on the groups regulated.

Prerequisite: Sophomore standing.

**ENV 470 Environmental Health Internship (2)**

Supervised practical experiences in a variety of environmental health settings. Graded S/U.

Prerequisite: Permission of instructor.

**ENV 474 Industrial Hygiene Monitoring Methods (3)**

Sampling and analysis of occupational health hazards and evaluation of the effectiveness of industrial hygiene control methods in laboratory and field locations.

Prerequisite: ENV 386 recommended.

**ENV 484 Environmental Toxicology (3)**

Principles of toxicology applied to a variety of biological systems: exposure, biotransformations, mechanisms of toxicity, dose-response relationships and factors influencing toxicity.

Prerequisite: CHM 235; biochemistry desirable.

**ENV 485 Environmental Fate and Transport (3)**

Distribution and transformation of chemical pollutants in air, water and soil. Topics include chemical equilibrium and mass transport processes, biotic and abiotic transformations, hydrology, and physicochemical properties of chemical pollutants that affect transport, accumulation and degradation.

Prerequisite: CHM 235.

**ENV 486 Toxic Substance Control (3)**

Quantification and management of toxic substances, including production, use, distribution, exposure and control. Risk assessment and regulatory strategies will be emphasized.

Prerequisite: BIO 111, 113; CHM 234.



# WOMEN'S STUDIES PROGRAM

**Director:** *Suzanne M. Spencer-Wood (Anthropology)*

**Women's Studies Executive Committee:** *Rose Hughes, Laurel Humphreys, Mildred Merz (Kresge Library), Fatma Mili (Engineering), Linda Schweitzer (Chemistry), Gary Shepherd (Sociology), Dyanne Tracy (Education), Margaret Willard-Traub (Rhetoric), Susan Wood (Art History)*

**Chief adviser:** *Suzanne M. Spencer-Wood (Anthropology)*

Women's studies constitutes an interdisciplinary field devoted to the description and analysis of women's experiences in historical and contemporary societies. Particular attention is given to differences among women in various social and cultural contexts, the representation of women in literature, art and the media, and the treatment of women by medical and biological sciences. Women's studies uses feminist methodologies and theories to describe and analyze the impact of social movements, historical events, public policy and other social facts and forces on women's positions in societies. Specific attention is given to the conditions that promote and impede women's progress.

## Requirements for the liberal arts major in women's studies, B.A. program

The major requires a minimum of 40 credits in women's studies, distributed as follows:

1. Core: WS 200, 320, 321, 399, 405. Students must earn a grade of at least 2.0 in both WS 200 and 320.
2. Five courses selected from: AH/WS 351; AN/WS 305, 337, 385; COM 327; EED/WS 481; HST/WS 322, 339, 361, 362, 375; MUS/WS 370; PHL 305/WS 307; PS/WS 311; PSY/WS 374; RHT/WS 365; SOC/WS 207, 335, 336, 352; WS/WHP 325; WS 300, 301, 400,
3. At least 28 credits counted towards the major must be at the 300 level or above.

*Note: To remain in good standing students must complete all other courses in the major with a cumulative grade point average of at least 2.00.*

## Program honors

To be a candidate for honors in women's studies, students must be graduating seniors who have taken a minimum of 20 credits of their women's studies major course work at Oakland University and have earned a minimum overall GPA of 3.60 in that coursework. In addition, a letter of reference is required concerning the student's volunteer involvement in a service activity relevant to women's issues.

## Requirements for a liberal arts minor in women's studies

To earn a minor in women's studies, students must complete a minimum of 20 credits in women's studies distribution as follows:

1. Core: WS 200, 320, 321. Students must earn a grade of at least 2.0 in both WS 200 and 320.
2. 8 credits at the 300 level or above chosen from the above list of WS electives.

## Course Offerings

### WS 200 Introduction to Women's Studies (4)

Interdisciplinary and comparative overview of fundamental women's concepts and topics as they relate to history, culture, literature, economics, class, ethnicity, race, theories and methods. *Satisfies the university general education requirement in the social science knowledge exploration area or may be used in lieu of one of the College of Arts and Sciences' distribution categories, not both. Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

### WS 207 Human Sexuality (4)

Identical with SOC 207.  
Prerequisite: SOC 100 or 206.

### WS 300 Women in Transition (4)

Focuses on life experiences unique to women. Major issues include identity and independence, marriage, childbirth, adulthood and aging. *Satisfies the university education requirement in the knowledge applications integration area. Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

Prerequisite: Completion of the general education requirement in the social science knowledge exploration area.

### WS 301 Special Topics in Women's Studies (4)

Course content varies. Representative topics have included: gender, ethnicity and representation; black women in America; women in German literature and culture.

### WS 305 Anthropological Perspectives on the Life Cycle (4)

Identical with AN 305.  
Prerequisite: AN 102 or WS 200.

### WS 307 Philosophy of Gender (4)

Identical with PHL 305.  
Prerequisite: RHT 160 and one course in philosophy or one course in women's studies.

### WS 311 Women and Politics (4)

Identical with PS 311.

### WS 320 Feminist Theory (4)

Overview of the development of the 19th and 20th century Western feminist theories, with special emphasis on the history of the women's movement in the U.S. and controversies in contemporary feminist thought and practice. Includes analysis of categories such as gender, sexual identity, race and class.

Prerequisite: WS 200 or permission of instructor.

### WS 321 Methods of Feminist Analysis (4)

Explores how connections among epistemologies, methodologies and research methods are formed in traditional disciplines. Feminist critiques of these epistemologies. Introduction to feminist critiques of research and to a range of research methods utilized by feminist scholars.

Prerequisite: WS 200 or permission of instructor.

### WS 322 Women in Modern America (4)

Identical with HST 322. *Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

Prerequisite: RHT 160.

**WS 325 Issues in Women's Health (4)**

Examines the medical, sociological, political and financial aspects of women's health issues. Includes an historical look at women's health in the U.S., the roles women have played in health care and the role of women as health care providers. Identical with WHP 325.

**WS 335 The Family (4)**

Identical with SOC 335.

Prerequisite: SOC 100, 205 or permission of the instructor.

**WS 336 Sociology of Gender (4)**

Identical with SOC 336.

Prerequisite: SOC 100, 205 or permission of the instructor.

**WS 337 Women's Lives in Cross-Cultural Perspective (4)**

Identical with AN 337.

Prerequisite: AN 102 or WS 200.

**WS 339 Women in Early Modern Europe (4)**

Identical with HST 339.

Prerequisite: RHT 160.

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

Identical with AH 351.

Prerequisite: AH 101 or WS 200.

**WS 352 Women and Work (4)**

Identical with SOC 352.

Prerequisite: SOC 100 or WS 200.

**WS 361 History of American Families (4)**

*Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

Identical with HST 361.

Prerequisite: RHT 160.

**WS 362 History of African-American Women (4)**

*Satisfies the university general education requirement in U.S. diversity for 2005-2006.*

Identical with HST 362.

Prerequisite: RHT 160.

**WS 365 Women Writing Autobiography (4)**

Identical with RHT 365.

Prerequisite: RHT 160.

**WS 370 Women in Music (4)**

Identical with MUS 370.

**WS 374 Psychology of Women (4)**

Identical with PSY 374.

Prerequisite: PSY 100 or 130.

**WS 375 Women in China, 1600-1900 (4)**

Identical with HST 375.

Prerequisite: RHT 160.

**WS 385 Historical Archaeology (4)**

Identical with AN 385. *Satisfies the university general education requirement in the social science knowledge exploration area. Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: AN 101 or 102 or permission of instructor.

**WS 399 Field Experience of Women's Studies (4)**

Field experience in women's studies with faculty supervision. An academic project involving field work or community activism around an issue of importance in women's studies. May not be repeated for credit.

Prerequisite: Junior/senior standing. Minimum of 16 credits in the major including WS 320, 321 or approval of women's studies director.

**WS 400 Directed Research in Women's Studies (2 or 4)**

Directed individual study and advanced scholarly research in women's studies.

Prerequisite: Approval of faculty adviser and women's studies director.

**WS 401 Advanced Topics in Women's Studies (4)**

Course content varies. Representative topics include research methods in women's studies.

**WS 405 Capstone Course (4)**

Provides students the opportunity to integrate their theoretical and practical work in women's studies. Students examine a subject using critical analysis and methodological skills, and demonstrate their abilities through class discussion, presentations and critical writing assignments.

Prerequisite: Junior or senior standing. 16 credits in women's studies courses including WS 320 and 321 or approval of women's studies director.

**WS 481 Gender Socialization in Schools (1 to 4)**

Identical with EED 481.

# OTHER ACADEMIC OPTIONS

The minors, concentrations and programs offered in this section are interdisciplinary in nature and are attractive additions to many degree programs in the university. They are available to all students in the university. *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.*

A student wishing to pursue any of these minors, concentrations and programs should consult with the coordinator listed with each program and should file a Concentration/Minor Authorization Form where appropriate.

## Concentration in American Studies

**Coordinator:** Kathleen Pfeiffer (English)

**Committee:** Gladys Cardiff (English), Daniel J. Clark (History), Jane D. Eberwein (English), Todd A. Estes (History), Jeffrey Insko (English), Karen A.J. Miller (History), Janice Schimmelman (Art History), A. Gary Shepherd (Sociology), Ronald A. Sudol (Rhetoric)

The American studies concentration provides both a broad understanding of the American experience and an introduction to the practice of focused interdisciplinary study. The concentration is taken in addition to a departmental major. By electing departmental courses with an American focus in two or three areas outside the major and framing the concentration with two interdisciplinary American studies courses, students may expect to gain a coherent sense of the national experience and appreciate the various contributions of different academic disciplines.

Although not a vocationally directed program, the American studies concentration should be of particular interest to students preparing for careers in law, government and journalism, and those planning graduate work in American studies or any of its contributing disciplines.

Concentration requirements include AMS 300, 401, one course in anthropology, one American history course at the 300 level and three electives from the courses listed as electives in the current catalog. No more than two electives may be taken from any one department's offerings, and at least one must represent a field or fields outside the student's major. (Those majoring in anthropology or history should be aware that no more than 8 credits may be counted toward both the major and a concentration.) Students interested in pursuing this concentration should file a plan of study with the coordinator.

## Recommended departmental electives

Art and art history	AH 350, 352, 355
English	ENG 112, 224, 317, 318, 319, 320, 324, 341, 342
History	HST 114, 115, 292, 301, 305, 306, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 319, 322, 323, 360, 361, 362
Music	MUS 200, 338
Political science	PS 100, 115, 203, 300, 301, 302, 305, 307, 323, 324, 326, 327, 340, 341, 342, 371
Sociology/anthropology	SOC 100, 205, 315, 331, 357, 373; AN 380, 381

Some 300- and 400-level topics courses offered by contributing departments may also be included in the concentration, with permission of the American studies coordinator.

## Course Offerings

The concentration 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*.

### AMS 300      **Topics in American Culture (4)**

An interdisciplinary approach to various aspects of American culture addressing both the theoretical basis for American Studies and practical application of interdisciplinary methodology.

Prerequisite: Writing requirement (may be waived by the concentration coordinator in the case of foreign students). *Satisfies the university/general education requirement in U.S. diversity.*

### AMS 401      **Senior Project (4)**

Either an independent research project or an internship in American studies. Plans for this project must be developed with the concentration coordinator the semester before the student registers for this course.

Prerequisite: AMS 300.

## Concentration in Applied Statistics

**Coordinator:** *Robert H. Kushler (Mathematics and Statistics)*

**Committee:** *Keith A. Berven (Biological Sciences), Gerard R. Joswiak (Computer Services), Anandi P. Sahu (Economics), Robert M. Schwartz (Education), Ronald E. Olson (Health Sciences), Mohamed A. Zohdy (Engineering)*

The University Committee on Applied Statistics sponsors this interdisciplinary concentration in applied statistics, which is available to all university undergraduates. This concentration focuses on the application and interpretation of statistical procedures in the pursuit of empirically based knowledge. In order to be certified by the committee as having fulfilled the concentration requirements, students must complete at least 16 credits in statistics, including:

1. One course at the introductory level (QMM 250, PSY 251, SOC 303, STA 226 or SYS 317)
2. STA 322
3. STA 323 or 324
4. One 400-level course in the student's major. This course must meet the approval of the University Committee on Applied Statistics.

Students who wish to take this concentration must develop a program in consultation with the coordinator or a committee member.

## Concentration in Archaeology

**Coordinator:** *Richard B. Stamps (Anthropology)*

**Committee:** *James W. Dow (Anthropology), Suzanne M. Spencer-Wood (Anthropology), Susan E. Wood (Art History)*

The concentration in archaeology prepares students for graduate study in archaeology. It is also helpful for students interested in an interdisciplinary approach to human cultural development viewed from historical, aesthetic and scientific perspectives. A minimum of

28 credits is required for this program:

1. AH 100, AN 101 and 222
2. One of the following: AH 310, 312, 314, 380; AN 282, 370, 371, 380, 384, 392
3. 8 credits in field methods (AN 383)
4. At least 4 elective credits. The following courses are recommended for those who wish to expand their background: AH 322, 326; HST 261, 306, 367.

Students are reminded that professional conservation work requires knowledge in botany and chemistry. Students wishing to enroll in the archaeology concentration should file a minor and concentration authorization form with the coordinator.

## Minors in Computer Science and Computing

**Coordinator:** *Christian C. Wagner (Computer Science and Engineering)*

The School of Engineering and Computer Science offers the following two minors, which are available to students in the College of Arts and Sciences.

The *minor in computer science* is suitable for students with majors in mathematics, physics, chemistry or biology, who may wish to emphasize numerical, scientific and engineering aspects of computing.

The *minor in computing* is suitable for students with majors in English, history, modern languages, philosophy, psychology, sociology or anthropology, who may wish to take courses that emphasize non-numerical and symbolic data processing and language translation. With a major in economics, a student may wish to take courses oriented toward application of computers in management data processing.

For specific requirements for each of these minors, see the Department of Computer Science and Engineering section of this catalog.

## Concentration in Criminal Justice

**Coordinator:** *Dale Nesbary (Political Science)*

The concentration in criminal justice requires at least 28 credits and is to be taken in conjunction with a full major in any department of the college. It provides career-oriented education for students interested in law, in the social forces producing delinquency and crime, in the evaluation of social planning for crime prevention and control, and in the operation of police organizations and correctional institutions. On occasion, courses related to criminal justice may be offered as special topics courses or seminars by participating departments and count for concentration credit. These courses will be identified by the concentration director. Appropriate transfer courses also may be accepted for credit when they meet university equivalency requirements. Students should consult with the concentration director to determine how these courses may fulfill credit requirements.

A student must be formally admitted to the program by meeting with the concentration director and must fulfill the following requirements:

1. 12 credits chosen from PHL 319; PS 241, 340; PSY 341; SOC 240, 327, 437
2. 12 credits from PHL 321; PS 341, 342; PSY 322, 343 and 342; SOC 300, SOC/AN 320, SOC 323, 325, 420, 425
3. Four credits of PS 458.

Students are strongly advised to take SOC 240 at the beginning of their concentration.

PS 458 Public Affairs Internship is designed to give students practical experience in government, public affairs, the criminal justice or legal system. The student's particular interests guide the internship selection process. An internship usually involves work in an agency and meeting with the internship adviser on a regular basis. Students who qualify may receive paid internships. A term paper on some aspect of the internship experience is required in order to receive course credit. The internship is a valuable learning experience and should be taken toward the end of the concentration.

## Concentration in Environmental Studies

**Coordinator:** *Dagmar Cronn (Chemistry)*

The concentration in environmental studies introduces students to the newer interdisciplinary perspectives needed to address today's environmental problems. Short- and a long-range implications of human activities are analyzed, with emphasis on the technical and scientific issues.

Requirements for the concentration are a minimum of 28 credits in a planned and approved program of advanced courses, built on introductory work in biology, chemistry, mathematics and physics. Typically the 28 credits would include ENV 308, plus 16 credits of work at the 300 level or above selected from at least three rubrics. Advanced courses in many departments may be suitable for the concentration. In addition to ENV courses, these include, but are not limited to, AN 410; BIO 301, 303, 311, 373, 375; ENV/HST 384; PS 350, 353 and 354. At least 16 credits must be in nonduplicative course work with another major. A Concentration/Minor Authorization Form with an approved set of courses must be filed at least three semesters prior to graduation. Consult the program coordinator for details about course sequences and scheduling.

## Concentration in Film Aesthetics and History

**Coordinators:** *Robert T. Eberwein (English) and Andrea Eis (Art History)*

**Committee:** *Bonnie Abiko (Art History), Peter J. Bertocci (Anthropology)*

The interdisciplinary concentration in film aesthetics and history, sponsored by the departments of Art and Art History; Center for International Programs; English; Modern Languages and Literatures; Rhetoric, Communication and Journalism; and Sociology/Anthropology, offers multiple perspectives for examining theoretical and critical issues of film as art and communication. The introductory courses explore the operation, function and construction of film. The history courses examine narrative and technical developments with emphasis on major directors, genres and trends. The theoretical courses are concerned with the uniqueness of film, its relation to other forms of verbal and plastic arts, and special approaches needed for analysis and enjoyment.

The range of viewing experiences and the variety of approaches to the medium provide an excellent preparation for students seeking employment in advertising, publishing, journalism, visual media or teaching, as well as those who wish to pursue film studies on the graduate level.

A minimum of 28 credits is required, including:

1. Three courses chosen from CIN 150, ENG 250, LIT 251 and AH 367
2. ENG 392
3. Two courses chosen from CIN 300, 301, 302, 303
4. One course chosen from AN 307, CIN 350, 450; COM 303; COM/SOC 371; MUS 334; and SA 268, 368



In special circumstances, CIN 450 or 499 may be substituted for one of the courses listed above, with permission of the concentration coordinator.

## Course Offerings

The concentration 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*.

### CIN 150 Introduction to Film (4)

Introduction to the art of film by examination of the filmmaking process, study of narrative and non-narrative film, and exploration of film's relation to society. *Satisfies the university general education requirement in the arts knowledge exploration area. Satisfies the university general education requirement in U.S. diversity.*

### CIN 300 History of Film: The Silent Era (4)

Survey of directors and films important in shaping film history: Griffith, Eisenstein, Chaplin, Murnau, Pabst, Lang and others.

### CIN 301 History of Film: The Sound Era to 1958 (4)

Examination of significant directors, genres and movements: Welles, Hitchcock, Renoir, DeSica and others; the western, gangster film, musical, neorealism, film noir.

### CIN 302 History of Film: The New Wave and Beyond (4)

Study of film from 1959 to the late 1980s including directors such as Godard, Truffaut, Akerman, Fassbinder, Herzog, Wertmuller, Bergman, Altman, Kubrick and Scorsese.

### CIN 303 History of Film: Into the 21st Century (4)

Study of developments in film since the 1980s including topics such as Hollywood cinema, independent film-making, experimental films, feminist cinema, national cinema, and new technologies such as digital imaging.

### CIN 350 Topics in Film (4)

Examination of specialized subjects in film such as: The War Film, Alfred Hitchcock's Films, The New Wave, The Japanese Cinema, Censorship.

### CIN 450 Advanced Topics in Film (4)

Topics to be selected by instructor.

Prerequisite: A course in film or permission of instructor.

### CIN 499 Independent Study (4)

Study on an independent basis for students with demonstrated interest in film. A proposed course of study must be submitted to the prospective instructor in the semester before the independent study is to be taken.

Prerequisite: One course in film.

## Concentration in French Studies

**Coordinator:** *Stacey Hahn (French)*

The concentration in French studies provides an interdisciplinary understanding of French culture for students not majoring in French. Courses in French language, literature, civilization, art history and history are required.

In addition to providing students with a well-rounded background in the area of French studies, this concentration is also useful to students planning graduate work in French history or art history.

The concentration 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 concentration requires completion of a minimum of 28 credits, including 8 credits in French language and 20 credits in courses conducted in English as follows.:

1. 8 credits of French language taken at Oakland University. Students must achieve minimally at the 215 level; students who place into FRH 215 will take 215 and 314; if they place higher than 215, they will take 314 plus 4 credits in a higher level course.
2. ML 390 and LIT 375 (both conducted in English)
3. 8 credits from the following history courses: HST 329, 345, 347, 348 and 349\*
4. 4 credits in Art and Art History: AH 326, 360 or 361. Other topic courses in art history may be substituted with permission of the concentration coordinator.

\*Students must take either HST 101 or 102 as a corequisite for the concentration (either of which satisfies the general education requirement).

This concentration does not constitute a major. Students must elect a major from those offered by the university. Interested students should develop a program in consultation with the coordinator.

## Concentration in Preprofessional Studies in Medicine, Dentistry, Optometry and Veterinary Medicine

**Coordinator:** Keith A. Berven (*Biological Sciences*)

**Committee:** Andrew F.X. Goldberg (*Eye Research Institute*), Kathy H. Moore (*Chemistry*), John R. Reddan (*Biological Sciences*)

The concentration in preprofessional studies is intended for students who wish to pursue careers in medicine, dentistry, optometry or veterinary medicine. Students are expected to complete a concentration consisting of the following:

1. At least 20 credits of biology, including some laboratories and the required introductory biology sequence (BIO 111, 113, 116), and at least three of the following:
  - Genetics:** BIO 341, 342
  - Physiology:** BIO 207 or 321 and 322
  - Biochemistry:** BIO 325 and 326 or CHM 453, 457, 458
  - Developmental biology:** BIO 323, 324
  - Microbiology:** BIO 319, 320.
2. 20 credits of chemistry: CHM 157, 158, 234, 235, 237.
3. 10 credits of physics: PHY 101-102 or 151-152 and PHY 158.
4. 8 credits of mathematics: MTH 141 plus one of MTH 122, 154, STA 225, 226. Note: preoptometry concentration students must take 12 credits of mathematics including one statistics course (STA 225 or 226).

The concentration provides the minimum requirements for admission to various medical, osteopathic, dental, optometry and veterinary schools, and provides the necessary background for the science portion of the standardized aptitude tests: medical (MCAT), dental (DAT), optometry (OAT) and veterinary (VCAT or GRE). The committee strongly recommends RHT 142 or 144 for better preparation for the nonscience portions of the standardized tests.

This concentration does not constitute a major. Students must elect a major from those offered by the university. Interested students should consult with Keith Berven, preprofessional concentration coordinator, for counseling and assistance in planning their academic programs.

## Concentration in Religious Studies

**Coordinator:** Gary Shepherd (Sociology)

**Committee:** Charles Mabee

This concentration offers a series of courses about (or related to) religion, both Western and Eastern, traditional and contemporary. Course goals include understanding a pervasive human phenomenon in the same scholarly objective spirit as other academic courses rather than seeking to confirm or attack any particular religious point of view.

This concentration may be taken conjointly as part of a modified major (24 credits) in philosophy or with a full major in any other department of the College of Arts and Sciences. Students wishing to make religion the focus of an *independent major* should contact the concentration coordinator for further information.

A minimum of 28 credits is required for the concentration in religious studies, distributed as follows:

1. REL 100 (4 credits)
2. Core studies: *Two* of the following (8 credits): REL 201, 301, 303
3. Field related studies: *Four* courses in at least *three* of the following five fields (16 credits):

Art	AH 104, 310, 322, 326
History	HST 324, 325, 327, 357; REL 300
Literature	ENG 312, ENG 305/REL 311, REL 302
Philosophy	PHL 352; PHL/REL 325, PHL/REL 350
Social Science	PSY 445 ( <i>only when special topic is religion</i> ), AN/REL 271, SOC/REL 305.

## Course Offerings

The concentration 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*.

### REL 100 Introduction to Religion (4)

Critical, comparative study of both Western and Eastern religious traditions with emphasis on historical developments. Features methodological approaches taken by a variety of disciplines in studying religion. Includes guest presentations by representatives of these different approaches.

### REL 150 World Religious Traditions (4)

Examines the core teachings and practices of the world's major religious traditions, including Judaism, Christianity, Islam, Hinduism, Buddhism, and Chinese religions. Emphasis is on terminology developed within each tradition, identification of human problems that each attempts to solve, and the insights and problematic issues that arise from these attempts.

### REL 201 Introduction to Sacred Texts (4)

Explores the various roles played by sacred texts within both Western and Eastern religious traditions. Core texts from these traditions are analyzed and compared, revealing the basic approaches to religious life contained in each.

**REL 271 Magic, Witchcraft and Religion (4)**  
Identical with AN 271.

**REL 300 Topics in the Historical Study of Religion (4)**  
Topics vary, but could include the following: the New Testament, medieval mysticism, early Buddhism, the Protestant Reformation, Christ and Caesar, and the 18th and 19th century attacks on religion. May be repeated for additional credit.

**REL 301 Religion in the Modern World (4)**  
Focuses on the problem of religious life in the context of modern critical thought and an increasingly pluralistic and secular world dominated by a scientific perspective. Includes examination of the rise of new religions and the struggle of religious systems to establish/maintain social legitimacy.

**REL 302 Religion and Literature (4)**  
Study of world religious literature. May include Greek tragedy, Hindu epics, Dante and Milton. Will treat both use of religious themes in literature and about literature as an expression of religious belief.

**REL 303 American Religious Experience (4)**  
Study of a variety of religious traditions (e.g., Buddhist, Catholic, Hindu, Islamic, Native American, Protestant) as these are understood and lived by followers within the modern pluralistic society of North America.

**REL 305 The Sociology of Religion (4)**  
Identical with SOC 305.  
Prerequisite: SOC 100, 205, or permission of the instructor.

**REL 311 The Bible as Literature (4)**  
Identical with ENG 305. *Satisfies the university general education requirement in the literature knowledge exploration area for 2005-2006.*  
Prerequisite: RHT 160.

**REL 325 Philosophy of Religion (4)**  
Identical with PHL 325.  
Prerequisite: RHT 160.

**REL 350 Philosophies and Religions of Asia (4)**  
Identical with PHL 350.  
Prerequisite: RHT 160.

**REL 355 Science and Religion (4)**  
Presentation and exploration of scientific and religious models of understanding, including the impact of scientific theories on religion. Contrasting perspectives of science and religion on controversial topics such as the beginning of the universe, evolution and cloning will be reviewed.  
Prerequisite: Junior standing.

**REL 490 Directed Readings in the Religious Studies (4)**  
Individual study of topic(s) not covered in available courses. May be repeated for additional credit.  
Prerequisite: REL 100, REL 201 and permission of concentration coordinator.

## Concentration in Social Work

**Coordinator:** Lynetta Mosby (Sociology)

The concentration in social work requires a minimum of 28 credits and is available to students throughout the university. It is primarily designed to ensure that undergraduate social work concentration students have the knowledge, skill and values necessary for entry-level generalist social work practice and/or graduate social work studies. The social and psychological dimensions of service delivery are explored as they relate to professional development and the integration of theoretical and applied approaches to problem

solving.

The following requirements apply to the concentration in social work:

A minimum of 28 credits in four areas including:

1. Required core courses:

- SOC 314 Introduction to Social Work
- SOC 315 Social Welfare Policies
- SOC 316 Theory and Practice of Social Work
- SOC 432 Internship in Social Work

2. Required psychology course:

- PSY 225 Introduction to Life-Span Developmental Psychology

3. One statistics course:

- SOC 203 Social Statistics
- PSY 251 Statistics and Research Design
- STA 225 Introduction to Statistical Concepts and Reasoning
- STA 226 Applied Statistics *or an approved alternative statistic course*

4. One elective:

- COM 385 Multicultural Communication
- PS 359 Public Policy and Health Care
- PSY 321 Child Development
- PSY 322 Adolescence and Youth
- PSY 341 Abnormal Psychology
- SOC 300 Alcohol, Drugs and Society
- SOC 328 Sociology of Health and Medicine
- SOC 331 Race and Ethnic Relations
- SOC 335 The Family
- SOC 465 Sociological Perspectives on Aging

Students are requested to enroll formally in the program by completing an application at the Department of Sociology and Anthropology office.

## Concentration in Urban Studies

**Committee:** *De Witt S. Dykes (History), Oded Izraeli (Economics)*

The urban studies concentration is designed to provide a comprehensive interdisciplinary understanding of modern urban civilization and to develop an appreciation of some of the problems and policy issues confronting contemporary American urban communities. It is also designed to introduce some of the technical skills that are a prerequisite to the successful pursuit of career opportunities in a variety of urban-oriented public and private service or administrative organizations.

The concentration provides a carefully selected group of required core courses drawn from several departments, allows a relatively broad choice of electives and provides an interdisciplinary seminar designed to help integrate the knowledge and skills acquired in the program.

Students wishing to pursue the concentration in urban studies must submit an advising plan to the concentration adviser and make application to the concentration coordinator to be admitted to the program. One course in statistics and/or methodology offered by a social science department or a statistics course offered by the Department of Mathematical Sciences is a prerequisite to the program. To earn the urban studies concentration, students

must complete a minimum of 28 credits, distributed as follows:

1. Core — three of the following four courses: ECN 309, HST 301, PS 305, SOC 345.
2. Electives — four of the following courses (none of the courses may overlap with courses in the student's major and no more than two courses may be taken in a single department): AH 363; HRD 364; HST 302; PS 307, 350, 353; SOC 315, 331.
3. Internship — although an urban internship or field experience is not required as part of the concentration, it is strongly suggested that students complete such a course in their major department or another program in the university.

## Prelaw Studies

Students planning to attend law school after graduation must select a major in addition to the preprofessional studies designation, prelaw studies. Students should choose a major in which they have both interest and aptitude; the particular major is less important for admission to law school than the overall success in courses chosen. Success is generally measured by the cumulative grade point average and the score on the Law School Admission Test (LSAT).

Rather than mastery of any particular subject matter, law schools require that incoming students possess certain basic skills. These skills include critical reasoning and the ability to write and speak in a coherent and precise manner. Students are advised to select rigorous course work aimed at developing strong reading, writing and reasoning skills; and to plan undergraduate course work with an eye toward long-term plans within the legal profession.

Because there is no set of specific courses necessary for admission to, or success in, American law schools, there is no formal prelaw curriculum at Oakland University. Students are directed to consider courses in three categories as described below and to choose courses which they believe will help them to develop skills or acquire knowledge which may be beneficial during or after law school. None of these courses are required or necessarily recommended for all prelaw students.

1. The development of fundamental abilities of reasoning and written communication. Although most introductory courses in all of the liberal arts disciplines serve this purpose, particularly relevant courses are: LIN/COM 207, ENG 380, PHL 102 and 103, RHT 380.
2. Oral communication. The following courses are recommended: COM 201, 220, 301, 318 and THA 105.
3. The law in relationship to other disciplines. Suggested courses are: ECN 378; ENV 461; JRN 403; MGT 350; PHL 316, 318, 319; PS 241, 341, 342; SOC/AN 320; and SOC 437.

Students are cautioned against overemphasizing law-related courses in their undergraduate training. Law schools virtually never give credit for these courses, either for placement or graduation, and are inclined to believe an education featuring these courses to be too narrow in scope. Undergraduate education is a distinct and vital part of one's professional training and should never be regarded simply as a way station before beginning one's "real" work. It must be emphasized that none of the courses listed here are required of, or restricted to, prelaw students.

Students interested in a career in law should meet with an academic adviser to discuss course selection and admission procedures. Advising is available through either Cheryl A. Sullivan in the College of Arts and Sciences Advising Office or Martha T. Zingo in the Department of Political Science.

## Premedical Studies

Students who plan to attend medical school upon graduation and who entered the college in the premedical studies curriculum must select a major in addition to this preprofessional studies designation. Students planning a career in the medical professions (medicine, dentistry, optometry and veterinary medicine) will find that a major in biology, biochemistry or chemistry, combined with the concentration in preprofessional studies, provides excellent preparation for admission to the various medical schools in Michigan and elsewhere.

Students should consult with Keith Berven, preprofessional concentration coordinator, or any of the faculty listed with the concentration, and with an adviser in the College of Arts and Sciences Advising Office for assistance in planning their programs.

## Liberal Arts Minor in Science

**Coordinator:** *Kathleen H. Moore (College of Arts and Sciences)*

The liberal arts minor in science requires at least 27 credits for the two-science minor, or 29 credits for the three-science minor, selected from courses in biological sciences, chemistry and physics.

Students who elect a single discipline minor in either biology, chemistry or physics are not eligible for the science minor, nor are students who are majoring in biochemistry, biology, chemistry, computer science, engineering, environmental health, industrial health and safety, medical physics, medical technology, nursing, physical therapy or physics.

### Two-science minor

1. Complete at least two of the following course sequences: BIO 111, 113 and 116; CHM 157, 158 (or 167, 168); or PHY 101, 102 (or 151, 152) and 158.
2. Complete at least 8 additional credits from either one science or split between the two sciences. Biology and chemistry courses numbered lower than BIO 111 and CHM 157, respectively, do not apply to the science minor, nor do CHM 201, 300 and BIO 300.

### Three-science minor

Complete the following: BIO 111, 113 and 116; CHM 157, 158 (or 167, 168); and PHY 101, 102 (or 151, 152) and 158.

## Geography Course Offerings

The following courses offered under the geography rubric are available only to students fulfilling requirements for the elementary education teaching minor in social studies. Students in other programs may register for these courses under the home department rubric as indicated below.

### **GEO 106**      **Earth Science/Physical Geography (4)**

Identical with PHY 106. *Satisfies the university general education requirement in the natural science and technology knowledge exploration area.*

### **GEO 200**      **Global Human Systems (4)**

Identical with AN 200 and IS 200. *Satisfies the university general education requirement in the global perspective knowledge exploration area.*

**GEO 210 Introduction to China (4)**

Identical with IS 210. Satisfies the university general education requirement in the global perspective knowledge exploration area.

**GEO 220 Introduction to Japan (4)**

Identical with IS 220. Satisfies the university general education requirement in the global perspective knowledge exploration area.

**GEO 230 Introduction to Africa (4)**

Identical with IS 230. Satisfies the university general education requirement in the global perspective knowledge exploration area.

**GEO 250 Introduction to Latin America (4)**

Identical with IS 250. Satisfies the university general education requirement in the global perspective knowledge exploration area.

**GEO 270 Introduction to the Middle East (4)**

Identical with IS 270. Satisfies the university general education requirement in the global perspective knowledge exploration area.



# SCHOOL OF BUSINESS ADMINISTRATION

427 Elliott Hall  
<http://www.sba.oakland.edu>

(248) 370-3286  
Fax: (248) 370-4974

**Dean:** *Jonathan Silberman*

**Office of the Dean:** *Marcia Lichty, assistant dean; Tricia Westergaard, coordinator of undergraduate advising; Theawiana English, extension site administrator/adviser; Donna Free, coordinator, graduate business programs; Donna Kellstrom, development director*

**Department chairs:** *Paul Licker, decision and information sciences; Addington Coppin, economics; Edward Farragher, accounting and finance; Ravi Parameswaran, management and marketing*

**Distinguished professor emeritus:** *Karl D. Gregory*

**Professors emeriti:** *Eleferios Botsas, Daniel N. Braunstein, Ronald Horwitz, Sid Mitra, John Tower*

**Professors:** *Lizabeth A. Barclay, Mohammed S. Bazaz, Joseph H. Callaghan, Addington Coppin, Mohammad Dadashzadeh, Gadis J. Dillon, David P. Doane, Edward J. Farragher, Oded Izraeli, Thomas W. Lauer, Paul Licker, Donald Mayer, J. Austin Murphy, Kevin J. Murphy, Ravi Parameswaran, Anandi P. Sahu, Howard S. Schwartz, Jonathan Silberman, Miron Stano, Kenneth M. York*

**Associate professors:** *Mukesh Bhargava, Eugene B. Fliedner, Sherman T. Folland, John W. Henke, John Kim, Kieran Mathieson, Nivedita Mukherji, Mohinder Parkash, Sandra H. Pelfrey, R. Mohan Pisharodi, Balaji Rajagopalan, Srinarayan Sharma, Mark Simon, Vijayan Sugumaran, Ronald L. Tracy, T.J. Wharton, Floyd G. Willoughby*

**Assistant professors:** *Henry Aigbedo, Matej Blasko, A.J. Cataldo, Xaiedong Deng, Mark W. Isken, Karl Majeske, Karen Markel, Cynthia E. Miree-Coppin, Robert Nehmer, Ram Orzach, James Serocki, Joseph Schiele, Rajeev Singhal, Kasaundra Tomlin, Catherine Tyler*

**Instructors:** *Fuad Hasanov, Carol Liu, Janell Townsend, Ellen Zhu, Xia Zhu*

**Special instructor:** *David Sidaway*

**Applied Technology in Business Program:** *Mohammad Dadashzadeh, director*

**Center for Executive and Continuing Education:** *Sarah Serra Prucha, executive director; Lori Crose, director of operations and development*

## Board of Visitors

The Board of Visitors provides a direct link between the business community and the School of Business Administration. The board is composed of outstanding corporate and professional leaders from the Detroit metropolitan area. Board members assist the dean on several projects and provide consultation on goals and objectives, curricula designs and research programs.

The board members are:

- Mark J. Mendola, *Managing Partner, PricewaterhouseCoopers, LLP; Chairman, Board of Visitors*
- Michael W. Grieves, *Chairman, Interactive Frontiers; Chairman Emeritus, Board of Visitors*
- Joseph B. Anderson, Jr., *Chair & CEO, Tag Holdings Technologies Inc.*
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- Jacqueline Lewis-Kemp, *Former Chief Executive Officer, Lewis Metal Stamping*
- John G. Marshall, *Chairman, ALCOS*
- Thomas C. McAlear, *retired Chief Operating Officer, DaimlerChrysler Services, North America LLC*
- Kenneth J. McCarter, *Vice President, Union Relations and Security Operations, DaimlerChrysler*
- Craig B. Parr, *Retired Executive*
- William H. Sandy, *Founder and former Chairman, Sandy Corporation*
- John M. Savio, *Vice President, Branch Operations, Oakland University Branch, Michigan State -University Federal Credit Union*
- Jonathan Silberman, *Dean, School of Business Administration, Oakland University, ex officio*
- Rebecca R. Smith, *Former Executive Vice President, Commercial Banking Division, Fifth Third Bank*
- Craig M. Stinson, *Chief Executive Officer, Breeze Industrial Products, Inc.*
- Dennis R. Toffolo, *Director, Planning & Economic Development Services, Oakland County*
- Peter Van Hull, *Partner (retired), Accenture*
- Bette Walker, *Chief Information Officer, Delphi Automotive*
- Ted D. Wasson, *Former President and Chief Executive Officer, William Beaumont Hospital Corporation*
- Tommi A. White, *Chief Operating Officer, Compuware Corporation*

## Mission

The mission of the School of Business Administration is to advance knowledge and enhance students' abilities to manage in a global business environment. The mission is achieved through a synergistic combination of teaching, scholarship and professional service, with emphasis on the linkage of theory and practice, and the application and management of technology. Toward the achievement of these ends, the SBA promotes collaborative relationships among students, faculty, administrators and employers.

## General Information

The School of Business Administration (SBA) programs enable students to combine the intensive study of a functional area of business (i.e., accounting, finance, human resources management, management information systems or marketing) or business economics with a broad background in management. Alternatively, students can focus on economics, the fundamental discipline behind business processes. In these programs, a strong foundation in liberal arts is combined with a rigorous education in written and oral communications and in problem definition, analysis and resolution. This combination produces graduates who can think analytically, communicate effectively and work cooperatively with others of similar or diverse backgrounds in both domestic and international environments. Graduates of these programs are prepared to handle the increasingly complex and changing problems faced by managers in profit-oriented enterprises and not-for-profit organizations, both public and private.

The programs include:

1. Bachelor of Science with majors in accounting, business economics, economics, finance, general management, human resources management, management information systems and marketing.
2. Bachelor of Arts with a major in economics (offered in conjunction with the College of Arts and Sciences; see the Department of Economics section in the Arts and Sciences portion of the catalog for a description of this program).
3. Minors in accounting, applied technology in business (ATIB), economics, finance, general business, human resources management, international management, management information systems, marketing, production and operations management, and quantitative methods.

High school students who intend to pursue a major offered by the SBA should consult the *Admissions* section of the catalog for specific preparation requirements. Students transferring from other institutions, both international and domestic, may be requested to provide documentation of the content and scope of the courses they have taken at their previous institutions.

The SBA offers a Master of Business Administration (MBA) degree for students in any major, including business and management. The MBA is a professional program in business designed to prepare students for careers involving problem identification, problem solving, decision making and leadership in any type of organization. MBA students may elect concentrations in accounting, business economics, entrepreneurship, finance, human resources management, international business, management information systems, marketing or production/operations management. It is preferred that students with an undergraduate degree in business or one of the functional areas of management have two years of work experience before entering the MBA program.

The SBA offers an Executive MBA in Health Care Management (EMBA-HCM). The EMBA-HCM is designed to provide health care professionals with an understanding of the management concepts and skills that will assist them in effectively managing in the health care industry. The program is geared toward physicians and health care administrators with a minimum of five years experience, who wish to gain a strong understanding of the operational and strategic management in the healthcare industry.

The SBA offers a Master of Accounting degree. Interested students should contact the Office of Graduate Business Programs (432 Elliott Hall, 248-370-3287) for detailed information on admissibility into the program.

The SBA offers a Master of Science in Information Technology Management degree. The goal of the program is to provide a strong technical and managerial background to those who are interested in using information technology for competitive advantage. It is

intended to provide business professionals with the knowledge they need to manage information technology effectively in support of their decision-making. It is also intended to provide information systems professionals with knowledge of the latest technologies and their use in application development. Students interested in pursuing this degree should contact the Office of Graduate Business Programs (432 Elliott Hall, 248-370-3287) for more information.

Oakland University undergraduates working on majors other than those in business administration may complete their prerequisites and some core courses for the MBA program while completing their undergraduate degree. For detailed information contact the Office of Graduate Business Programs.

The SBA is accredited, on both the undergraduate and MBA levels, by AACSB International (The Association to Advance Collegiate Schools of Business), the premier business school accreditation agency. In addition, the accounting program has achieved AACSB accreditation.

For more information on the SBA undergraduate programs, the MBA, the Master of Accounting program, the Master of Science in Information Technology Management program, accreditation, SBA courses and SBA faculty, visit the School's Web site at: [www.sba.oakland.edu](http://www.sba.oakland.edu).

## Degree Requirements

The curriculum described shall be followed by students entering the School of Business Administration beginning with the fall 2005 semester. Students enrolled prior to fall 2005 may choose to satisfy either the degree requirements listed in this catalog or those in the catalog of the academic year in which they were initially admitted to pre-business or undecided business in the SBA (or any catalog during the interim), provided that catalog is not more than six years old at the time of graduation. Students who transfer to the SBA after admission to the university or who are readmitted to the university are required to follow the requirements of the catalog in effect at the time they transfer or are readmitted. As described below, students may choose to meet the general education requirements of a different catalog.

To ensure they have met all requirements, students should seek a final program audit from one of the school's academic advisers no later than the semester before the semester in which they plan to graduate. The responsibility for meeting graduation requirements rests with the student.

The business administration programs consist of the following parts: general education (including U.S. diversity and writing foundations), the precore, the core, the major and free electives (if needed to reach 128 credits). Students in these programs must satisfy the specific requirements of each of these parts and must earn a minimum of 128 credits. (See *Bachelor of Science with a major in economics* for the specific requirements of that degree program.)

Each student must:

1. Complete at least 128 credits, including any free electives needed to reach this total.
2. Complete the university general education requirement as detailed in the general education section below, also under *Undergraduate degree requirements*.
3. Complete the precore requirements as listed below and be admitted to major standing in business administration as detailed in the *Admission to major standing in business administration* section below.
4. Complete the core program and the requirements of one of the majors in the SBA.
5. Complete at least 32 credits at the 300 level or above.

6. Complete at least 32 credits at Oakland University, of which at least 31 credits must be in courses offered by the School of Business Administration, excluding ECN 150, 200, 201, 210 and QMM 240, 241 and 250. Of these 31 credits, at least eight credits must be in the student's major.
7. Take the last eight credits needed to complete baccalaureate requirements at Oakland University.
8. Earn a cumulative grade point average of at least 2.00 in courses taken at Oakland University and in courses taken in the SBA.

## Academic Advising, Mentoring and Major Standing

The school offers advising and mentoring to students who plan to pursue one of its degree programs. Faculty members are available to provide support, curricular guidance and career information as students make the transition from high school or a previous college to Oakland University's business administration or economics programs. Incoming freshmen and transfer students are encouraged to seek information from these experienced faculty members.

Students who have questions about schedule planning, degree requirements, admission to the SBA, major standing, transfer credit, petitions of exception or graduation audits should meet with one of the school's advisers. The undergraduate advising office is located in 332 Elliott Hall (248-370-3285). To avoid delays, students are encouraged to seek advising prior to early registration periods.

Once major standing has been achieved (see *Admission to major standing in business administration* or *Admission to major standing in economics*), students are encouraged to consult with faculty within their major area to discuss schedule planning within the major, career tracking and other issues relevant to making academic decisions that will enhance opportunities for success within a chosen career field.

## Requirements for Business Administration Majors

### General education requirement

Students in the School of Business Administration must satisfy the university general education requirement (see *Undergraduate degree requirements*). Students may use one catalog for the general education requirements and another for the specific degree requirements. Students enrolled prior to Fall 2005 may choose to satisfy either the general education requirements listed in this catalog or those in the catalog of the academic year in which they were initially admitted to Oakland University (or any catalog during the interim), provided that catalog is not more than six years old at the time of graduation. Starting in Fall 2005, the general education requirements may be summarized as one course from the approved lists in each of the following categories:

- Writing: This category includes:
  - a. RHT 160 and its prerequisites;
  - b. an intensive writing course in other general education requirements; and
  - c. an intensive writing course in the major.
- Formal Reasoning: This category is normally covered by the required MTH 121.
- Knowledge Explorations: This category is normally covered by ECN 200 and one course each in arts, foreign language and culture, global perspective, literature, natural science and technology, and Western civilization.
- Knowledge Application: This category requires a course outside the major.
- Capstone course: This category will require a course in the major.
- U.S. diversity: Select a course that meets one of the other knowledge exploration general education requirements and has the required diversity section.

SBA students are encouraged to increase their background in ethics by taking PHL 103, Introduction to Ethics, to satisfy the university's Western civilization general education knowledge exploration requirement.

## Precore requirements

As preparation for the various majors of the business administration program, students must complete the following courses in writing, speech communication, mathematics, computer use, economics, accounting and statistics.

The required writing proficiency and precore courses are:

		<b>Credits</b>
RHT 150-160	Composition I-II (or complete the writing requirement in another manner)	0-8
COM 201	Public Speaking	4
or COM 202	Group Dynamics and Communication	4
MTH 011-012	Elementary-Intermediate Algebra (if required, based on math placement)	0
* MTH 121	Linear Programming, Elementary Functions (or MTH 141)	4
MTH 122	Calculus for the Social Sciences (or MTH 154)	4
MIS 200	Personal Productivity with Information Technology	4
or CSE 125	Introduction to Computer Use	4
ECN 200	Principles of Macroeconomics	6-8
and ECN 201	Principles of Microeconomics	6-8
or ECN 210	Principles of Economics (a 6-credit course that covers the material of both ECN 200 and 201)	6-8
ACC 200	Introductory Financial Accounting	4
ACC 210	Managerial and Cost Accounting I	4
QMM 240	Statistical Methods for Business I	3-6
or QMM 250	Statistical Methods for Business (a 6 credit course that covers the material of both QMM 240 and 241)	3-6
		33-46

\* If a student places into MTH 122, MTH 121 is not required. If a student does not place into calculus, MTH 121 must be completed with the required minimum grade.

The freshman and sophomore years of study for students pursuing the business administration program will be devoted to the writing, general education and precore course requirements. Special emphasis should be given during the freshman year to the completion of the university writing proficiency requirement and steady progress in the mathematics sequence. Once sophomore status has been achieved (28 credits), students will begin work on the economics, accounting and statistics requirements.

## Admission to major standing in business administration

To be eligible to take 300- and 400-level business courses, business majors must be admitted to major standing in the School of Business Administration. Exceptions to this policy are ACC 310, FIN 322, MIS 300, MKT 302, ORG 330 and POM 343. ECN 303 does not require major standing for any business major, but all the other 300-400 level. ECN courses require major standing only for business economics majors.

Admission to major standing is selective. The minimum requirements for consideration are:

1. Student's admissibility to and retention in the university;
2. completion of the writing requirement;
3. a minimum grade point average of 2.60 in all courses taken at Oakland University (with a minimum of 6 credits completed at Oakland University)\*;
4. a minimum grade of 2.0 in each of the following precore courses or their equivalents: ACC 200, 210; COM 201 or 202; ECN 200 and 201 (or 210); MIS 200 or CSE 125; MTH 121, 122; and QMM 240 (or 250); and
5. submission of an "Application for Major Standing" for the desired major in September for students expecting to complete the pre-core and writing requirements during fall semester and in January for those expecting to complete requirements during winter, spring, or summer semesters.

\*Any grade earned in a course with major standing as a prerequisite before a student officially earns major standing will not be included in the student's GPA when determining admission to major standing.

## Core program

Each of the business major programs requires the completion of a common core of courses introducing students to the functional areas of business. The core courses required in all business administration major programs are:

		<b>Credits</b>
QMM 241 (or 250)	Statistical Methods for Business II	0-3
ENG 382	Business Writing (or ENG 380 or 381)	4
MKT 302	Marketing	4
ORG 330	Introduction to Organizational Behavior	3
MIS 300	Management Information Systems	3
ECN 303	Managerial Economics	3
POM 343	Operations Management	4
FIN 322	Managerial Finance I	4
*ORG 331	Introduction to the Management of Human Resources	3
*MGT 350	Legal Environment of Business	3
*MGT 435	Management Strategies and Policies	4
		35-38

\*ORG 331, MGT 350 and MGT 435 require major standing and only business majors may take MGT 435.

## Major programs

Students take 15-24 additional credits specified in their major area. The junior and senior years will be devoted to the successful completion of the requirements of the core and major. Majors from which business administration students may choose are detailed below. Double majors are permitted in all areas except general management. No more than 4 credits of independent study (490) courses may be used to meet the major elective requirement. Courses numbered 380 and 480 may be repeated for credit provided the topics are different.

## Free electives

Students complete their program by taking a course or courses of their choice to yield a total of 128 credits. While the general education portion of the degree program provides students with the range of knowledge that is the essence of an educated person, the free

elective portion of the program allows students to make choices concerning course work that responds to their individual interests and/or needs.

## Requirements for the major in accounting

**Major adviser:** *Gadis Dillon*

The accounting faculty has adopted the statement of mission as defined in the School of Business Administration Mission Statement. Within the context of that mission statement, the accounting curriculum is intended to prepare graduates for careers in public accounting, industry and government.

To fulfill requirements for the accounting major, students must be admitted to major standing in accounting, complete the core program and earn a minimum of 32 credits in the courses specified below, with a grade of 2.0 or better in each major course. A grade of 2.0 or better must be achieved in each prerequisite accounting course before a student may begin work in subsequent accounting courses.

Required precourse courses:		Credits
ACC 200	Introductory Financial Accounting	4
ACC 210	Managerial and Cost Accounting I	<u>4</u>
		8
Required major courses:		
ACC 310	Intermediate Financial Accounting I	3
ACC 311	Intermediate Financial Accounting II	3
ACC 318	Accounting Information Systems: Planning and Analysis	3
ACC 320	Managerial and Cost Accounting II	<u>3</u>
		12
Electives — Choose 12 credits:		
ACC 301	Financial Reporting and Analysis (3)	
ACC 401	Advanced Financial Accounting (3)	
ACC 411	Auditing (3)	
ACC 412	Government and Not-for-profit Accounting (3)	
ACC 415	Federal Income Taxation (3)	
ACC 480	Special Topics in Accounting (3)	
ACC 505	Business Law for Accountants (3)	
ACC 521	Federal Income Tax II (3)	
ACC 526	Account Information Systems: Audit & Control (3)	
ACC 533	Account Information Systems: Analysis & Design (3)	<u>12</u>
		32

**Note:** The 500-level accounting courses are open to undergraduate accounting majors with the permission of the Coordinator of Graduate Business Programs.

Because of specific examination requirements, students who plan to take a professional accounting examination (CPA, CMA or CIA) should discuss their options with an accounting faculty member before enrolling in 400-level accounting courses.

The Master of Accounting degree program provides for 30 credits of accounting and related course work. Undergraduate students will be able to apply to the program during the fourth year of their undergraduate program. With the completion of 158 credits of undergraduate and graduate course work students will graduate with a Bachelor of Science with a major in accounting and a Master of Accounting. Students are encouraged to seek advising from the Office of Graduate Business Programs.

Students planning to sit for the CPA Examination should be aware that the State of Michigan (and most other states) requires a minimum of 150 credit hours to become a Certified Public Accountant. The requirement will be satisfied by completing the Master



of Accounting degree program. While the MAcc program is recommended, additional undergraduate courses may also satisfy the 150 credit hour requirement. An adviser should be consulted if this option is selected.

## Requirements for the major in business economics

**Major adviser:** *Addington Coppin*

By combining studies of the basic functional areas of business with the analytical and quantitative methods of economics, the business economics major provides students with the ability to apply general concepts of economics to help solve managerial problems. This major prepares students for careers in business management or public administration, or for graduate studies in business, economics or law.

To fulfill the requirements for the business economics major, students must be admitted to major standing in business economics, complete the core program and complete a minimum of 30 credits, as specified below, with a grade of 2.0 or better in each major course.

Required in the precore and core:		Credits
ECN 200	Principles of Macroeconomics	
and ECN 201	Principles of Microeconomics	
or ECN 210	Principles of Economics	6-8
ECN 303	Managerial Economics	<u>3</u>
		9-11
Required major courses:		
ECN 302	Intermediate Macroeconomics	3
ECN 304	Consumer Economics	3
ECN 405	Econometrics	<u>3</u>
		9
Electives — Choose four courses, at least one of which is a 400-level course:		
ECN 309	State and Local Public Finance (3)	
ECN 310	Economics of the Environment (3)	
ECN 315	Economics of Gender and Ethnicity (3)	
ECN 321	Financial Markets and the Economy (3)	
ECN 326	International Economic Development (3)	
ECN 333	History of Economic Thought (3)	
ECN 338	Economics of Human Resources (3)	
ECN 367	Economics of Health Care (3)	
ECN 373	International Trade (3)	
ECN 374	Economics of International Finance (3)	
ECN 378	Economic Analysis of Law (3)	
ECN 380	Topics in Economics (3)	
ECN 385	Economics of Industries (3)	
ECN 409	Urban and Regional Economics (3)	
ECN 418	Seminar in Economic Policy (3)	
ECN 421	Monetary Economics (3)	
ECN 456	Public Finance (3)	
ECN 480	Special Topics in Economics (3)	
		<u>12</u>
		30-32

## Requirements for the major in finance

**Major adviser:** *Matt Blasko*

The major in finance leads to an understanding of the theoretical foundations of finance and develops the specific skills, modes of analysis and institutional background useful to work in the accounting and finance areas of profit-making businesses or not-for-profit enterprises.

To fulfill requirements for the finance major, students must be admitted to major standing in finance, complete the core program and earn a minimum of 22 credits, as specified below, with a grade of 2.0 or better in each major course. A grade of 2.0 or better must be achieved in FIN 322 before a student may begin work in subsequent finance courses.

<b>Required in the core:</b>		<b>Credits</b>
FIN 322	Managerial Finance I	4
<b>Required major courses:</b>		
ACC 301	Financial Reporting and Analysis*	3
FIN 416	Investment Analysis	3
FIN 418	Financial Institutions and Capital Markets	<u>3</u>
		9

\*In lieu of ACC 301, students may substitute *both* ACC 310 and 311.

**Electives — Choose three courses from the following (some may require additional prerequisites):\*\***

FIN 417	Investment Portfolio Management (3)	
FIN 419	International Financial Management (3)	
FIN 420	Real Estate Investment Analysis (3)	
FIN 422	Managerial Finance II (3)	
FIN 480	Special Topics in Finance (3)	
		<u>9</u>
		22

\*\*ACC 320 (3) or ECN 321 (3) may be substituted for one finance elective.

## Requirements for the major in general management

**Major adviser:** *Floyd G. Willoughby*

The general management major allows students to take advanced work in several functional areas of business. Students may not earn a double major in general management and another major of the School of Business Administration.

To fulfill requirements for the general management major, students must be admitted to major standing in general management, complete the core program and earn a minimum of 15 additional credits in electives with a grade of 2.0 or better in each major course. The electives may be chosen from any area within the SBA (courses beginning with ACC, ATB, ECN, FIN, MGT, MIS, MKT, ORG, POM or QMM) and must be chosen from courses numbered 300 or higher; at least six credits must be at the 400 level. No more than 4 credits of independent study (490 courses) may be used to meet the major elective requirement.

## Requirements for the major in human resources management

**Major adviser:** *Kenneth M. York*

The major in human resources management develops the skills needed to administer the personnel functions of organizations. It is designed primarily for students who intend to pursue careers in administration, personnel management, labor relations or wherever the management of people at work is a central concern.

Emphasis is placed on developing an intensive understanding of the concepts and techniques needed to acquire, develop and utilize an organization's human resources. The program includes broad coverage of such topics as personnel psychology, personnel administration and labor/management relations, in addition to providing basic knowledge of organizational behavior.

To fulfill requirements for the human resources management major, students must be admitted to major standing in human resources management, complete the core program and earn at least 25 credits as specified below, with a grade of 2.0 or better in each major course.

<b>Required in the core:</b>		<b>Credits</b>
ORG 330	Introduction to Organizational Behavior	3
ORG 331	Introduction to the Management of Human Resources	<u>3</u>
		6
<b>Required major courses:</b>		
ORG 430	Organizational Research Methods	4
ORG 433	Labor/Management Relations	4
ORG 434	Advanced Human Resources Management	<u>4</u>
		12
<b>Electives — Choose two courses, at least one of which must be a 400-level ORG course:</b>		
ORG 431	Leadership and Group Performance (4)	
ORG 432	Motivation and Work Behavior (4)	
ORG 470	International Organizational Behavior and Human Resources Management (4)	
ORG 480	Topics in Organizational Management (4)	
MGT 480	Seminar: Current Business Topics (4)	
ECN 338	Economics of Human Resources (3)	
PS 454	Public Personnel Administration (4)	
		<u>7-8</u>
		25-26

## Requirements for the major in management information systems

**Major adviser:** *Paul Licker*

The major in management information systems specifies a set of courses that will give students more facility with computer applications, with the use of computers in handling information processing in organizations, with systems analysis and with the use of computers in management decision making and support of organizational functions.

To fulfill the requirements for the major in management information systems, students must be admitted to major standing in management information systems, complete the core program and complete at least 28 credits, as specified below, with a grade of 2.0 or better in each major course.

<b>Required in the pre-core and core:</b>		<b>Credits</b>
MIS 200	Personal Productivity with Information Technology	4
or CSE 125	Introduction to Computer Use	
MIS 300	Management Information Systems	<u>3</u>
		7
<b>Required major courses:</b>		
CSE 130	Introduction to Computer Programming	4
or CSE 141	Computer Problem Solving in Engineering and Computer Science	
MIS 304	Database Management	4
MIS 316	Systems Analysis	<u>4</u>
		12

**Electives — Choose three courses, at least one of which is MIS 405 or 426:**

MIS 400	Analysis of Complex Systems (3)
MIS 405	Business Data/Telecommunications (3)
MIS 407	Projects and Problem Solving (3)

MIS 416	Advanced Systems Analysis and Design (3)
MIS 418	Network Management (3)
MIS 420	Electronic Commerce (3)
MIS 421	Advanced Business Applications (3)
MIS 422	Business Object Development (3)
MIS 424	Business Application Architecture (3)
MIS 426	GUI Application Development (3)
MIS 428	Web Application Development (3)
MIS 436	Decision Support Systems (3)
MIS 442	IS Issues in Supply Chain Management (3)
MIS 444	Simulation in Management (3)
MIS 446	Business Analysis and Modeling (3)
MIS 480	Advanced Topics in MIS (3)
CSE 220	Spreadsheet Programming and Reporting (4)
POM 448	Project Management Techniques (4)

9-11  
28-30

## Requirements for the major in marketing

**Major adviser:** *Mukesh Bhargava*

The major in marketing develops the specific skills, modes of analysis and background to work in the marketing area of a profit-making business or not-for-profit enterprise. It is designed primarily for students who intend to pursue careers in fields such as marketing, sales, research, product development and management, advertising, communication, retail buying and distribution management.

Emphasis is placed on developing a comprehensive understanding of the concepts and techniques needed to plan and execute the conception, pricing, promotion, and distribution of ideas, goods and services by creating exchanges which satisfy individual and organizational goals. The program includes broad coverage of such topics as marketing management, marketing research, selling and sales management, advertising and communications, sales promotion, business-to-business marketing, not-for-profit marketing, business logistics, retailing, international marketing and Internet marketing.

To fulfill the requirements for the major in marketing, students must be admitted to major standing in marketing, complete the core program and complete a minimum of 24 credits, as specified below, with a grade of 2.0 or better in each major course.

Required in the core:		Credits
MKT 302	Marketing	4
<b>Required major courses:</b>		
MKT 353	Marketing Management	4
MKT 404	Consumer Behavior	4
MKT 405	Marketing Research	4
		12
<b>Electives — Choose two courses:</b>		
MKT 406	Integrated Marketing Communications (4)	
MKT 420	Distribution Channels Management (4)	
MKT 430	Sales and Sales Management (4)	
MKT 450	International Marketing (4)	
MKT 470	Business to Business Marketing (4)	
MKT 480	Seminar in Marketing (4)	
		8
		24

## Bachelor of Science with a Major in Economics

**Major adviser:** *Addington Coppin*

The curriculum in economics teaches students the concepts and tools of economic analysis, while providing them with the breadth and flexibility of a broad general education and courses in other areas of interest to the student. Students learn how economic analysis can be applied to major problems facing individuals, firms, the nation and the world today. Majoring in economics prepares students for the workplace of the future, which will require workers who are flexible, adaptable to change, and who can propose practical solutions to solve problems quickly.

Besides preparing students for a career in the private or public sector, an education in economics is excellent preparation for law school, graduate school in public administration or economics or an MBA degree. Economics is a flexible choice for students seeking a rigorous, well-respected and relevant major without specializing in a narrowly defined area.

Beyond the major in business economics (described previously), the Department of Economics offers three economics programs: Bachelor of Arts in Economics (offered through the College of Arts and Sciences), Bachelor of Science in Economics (offered through the School of Business Administration), and a minor in economics. The Bachelor of Arts degree allows a student to pursue a liberal arts education while providing a background that business considers appropriate for most entry-level management positions (see the Department of Economics section in the College of Arts and Sciences portion of the catalog). The Bachelor of Science degree has additional accounting and finance requirements. It also provides educational and career flexibility not offered by a degree in business. The minor in economics is useful for liberal arts majors with an interest in business and for business majors who want to demonstrate their solid grounding in economics, the foundation of a business degree.

Students who are interested in attending graduate school in economics should see the department chairperson or an economics faculty mentor at an early stage of their undergraduate program. Professional advisers in the SBA (for B.A. and B.S. degrees) and the College of Arts and Sciences (for B.A. degree) or the chairperson of the Department of Economics do routine student advising.

### Requirements for the Bachelor of Science degree with a major in economics

To earn the Bachelor of Science degree with a major in economics, students must complete a minimum of 128 credits as follows:

<b>English composition:</b>		<b>Credits</b>
RHT 150-160	Composition I-II (or complete the writing requirement in another manner as detailed in the general education section of <i>Undergraduate degree requirements</i> )	0-8
ENG 382	Business Writing (or ENG 380 or 381)	<u>4</u> 4-12

### **General education requirement:**

28  
See the university general education requirements section of the *Undergraduate degree requirements* for details on the writing requirement, U.S. diversity and other general education requirements. For economics majors, the social science field category cannot be satisfied with an economics course.

<b>Cognate courses:</b>		<b>Credits</b>
MTH 011-012	Elementary-Intermediate Algebra (if necessary)	0
MTH 121	Linear Programming, Elementary Functions (or MTH 141)	4
MTH 122	Calculus for the Social Sciences (or MTH 154)	4
CSE 125 or MIS 200	Introduction to Computer Use Personal Productivity with Information Technology (or CSE 130 or 141)	4
ACC 200	Introductory Financial Accounting	4
QMM 240 and 241 or QMM 250	Statistical Methods for Business I and II Statistical Methods for Business (a 6 credit course that covers the material of both QMM 240 and 241)	6
FIN 322	Managerial Finance I	<u>4</u>
		26

<b>Required courses:</b>		
ECN 200 and ECN 201 or ECN 210	Principles of Macroeconomics Principles of Microeconomics Principles of Economics (a 6-credit course that covers the material of both ECN 200 and 201)	6-8
ECN 302	Intermediate Macroeconomics	3
ECN 303	Managerial Economics	3
ECN 304	Consumer Economics	3
ECN 405	Econometrics	<u>3</u>
		18-20

**Electives:** 15-16

Choose five economics electives at the 300-level or above, one of which must be at the 400-level. Students taking ECN 150 before ECN 200 or 201, and who subsequently become economics majors, should talk to the department chairperson. FIN 418 or QMM 452 can be substituted for a 300-level elective. No more than 3 credits in ECN 380 or ECN 490 may be counted as economic electives.

**General electives:** 26-37  
128

**In addition, each student seeking a Bachelor of Science with a major in Economics must:**

1. Complete at least 32 credits at Oakland University, of which at least 16 credits must be offered by the SBA. Of these 16 credits, at least nine must be in the student's major.
2. Complete the requirements for admission to major standing in economics.
3. Complete at least 32 credits at the 300 level or above.
4. Take the last eight credits needed to complete baccalaureate requirements at Oakland University.
5. Earn a cumulative grade point average of at least 2.00 in courses taken at Oakland University and in courses taken in the School of Business Administration.

### **Admission to major standing in economics**

Admission to major standing in economics is selective and required before a student may graduate. The minimum requirements for consideration for major standing are:

1. Student's admissibility to and retention in the university;
2. Completion of the writing requirement;
3. A minimum grade point average of 2.60 in all courses taken at Oakland University;
4. Completion of the following courses, or their equivalents, with a grade of 2.0 or better in each course: MTH 121, 122; MIS 200 or CSE 125 (or 130 or 141); ECN 200 and 201 (or 210) and QMM 240 (or 250); and
5. Submission of an "Application for Major Standing in economics."

Although ECN 302, 303 and 304 are not required for admission to major standing in economics, students must earn a grade of 2.0 or better in each in order to graduate.

## Minors

The School of Business Administration offers 11 minors for students who want to combine their majors with an introduction to the skills, analytical techniques and institutional material of economics or an area of business.

To earn any of these minors, with the exception of the minor in applied technology in business, **students must complete the prescribed courses with a grade of 2.0 or better in each course.** (See the description of the minor in applied technology in business for the grade requirements for that minor.) Students majoring in programs other than business administration may take SBA courses only if they meet the prerequisites (except major standing).

### Limit for non-business majors to less than 25 percent of credits in business:

All students who are not majors in the SBA and economics majors in either the SBA or the College of Arts and Sciences, whether they have applied for a minor or not, are limited to no more than 25 percent of their total degree credits in business courses. (Students majoring in business economics are not subject to this limitation). The maximum of 25 percent of total degree credits includes business courses taken at Oakland University and all previous colleges. Economics (ECN) courses, QMM 240, 241, 250 and 452 are excluded from this requirement. Therefore, students from majors outside the business administration program may not earn more than 25 percent of total degree credits in transfer plus Oakland credits in ACC, ATB, FIN, MGT, MIS, MKT, ORG, POM or QMM courses (excluding those noted above).

Any student enrolled in any major in the SBA may receive any minor offered by the school, other than in the student's major, except for the minors in general business and applied technology in business. The minor in general business is open only to economics majors (B.A. or B.S. program) and students with majors outside the SBA. The minor in applied technology in business is available only to students majoring in business or economics who have been admitted into the ATIB program. Students not in a major within the SBA are similarly eligible for multiple minors, but are subject to the 25 percent of total degree credits maximum discussed above. **Transfer students planning to earn a minor must earn at least nine credits toward the minor at Oakland University; at least six of these nine credits must be in courses at the 300 level or above.** Students not in a major within the SBA who are expecting to earn a minor in the SBA are encouraged to meet with the minor coordinator and fill out a university concentration/minor authorization form.

## Minor in accounting

**Coordinator:** *Gadis Dillon*

The minor in accounting consists of a minimum of the following 20 credits and any prerequisites for these courses: ACC 200, 210 and 12 additional credits in any accounting (ACC) courses. This minor is open to all students except accounting majors.

## Minor in applied technology in business (ATIB)

**Coordinator:** *Mohammad Dadashzadeh*

The minor in applied technology in business provides a unique opportunity to combine studies in any business or economics major with hands-on experience to solve real-world business problems in companies. It provides students admitted into the program with a 32 credit hour tuition scholarship in their junior and senior years so that they can focus their learning on the proactive use of information technology (IT) in solving corporate sponsored business problems. Application to the program is restricted to business and economics majors and admission to the program is competitive; students interested in applying for this minor should contact the program coordinator. The minor consists of a minimum of 19 credits and any prerequisites for these courses: MIS 200 (or CSE 125), MIS 300, ATB 306, 307, 406 and 407. A minimum grade of 3.0 is required in each of these courses, and a cumulative GPA of 3.00 or better must be maintained to remain in the program.

## Minor in economics

**Coordinator:** *Addington Coppin*

The minor in economics consists of a minimum of 18 credits in economics courses including any prerequisites for these courses. A student must take both ECN 200 and 201 or ECN 210. A student must then complete 12 additional credits in any 300- or 400-level economics (ECN) courses. This minor is open to all students except economics and business economics majors. **Students taking ECN 150 before ECN 200 or 201, and who subsequently want to minor in economics, should talk to the minor coordinator.**

## Minor in finance

**Coordinator:** *Matt Blasko*

The minor in finance consists of a minimum of the following 23 credits and any prerequisites for these courses: ACC 200, QMM 240 and 241 (or QMM 250), FIN 322 and nine additional credits in finance (FIN) courses (Either ACC 301 or ECN 321 may be used towards those nine credits and may satisfy 3 credits toward the finance minor). This minor is open to all students except finance majors.

## Minor in general business

**Coordinator:** *A. J. Cataldo*

The minor in general business consists of a minimum of 19 credits, described as follows, and any prerequisites for these courses: ECN 210 or both ECN 200 (or 150) and 201, ACC 200, ORG 330 and 6-8 additional credits in 300- and 400-level electives (ACC, FIN, MGT, MIS, MKT, ORG, POM or QMM courses) offered by the SBA. Economics (ECN) 300- and 400-level courses are not acceptable electives for this minor. This minor is open to all majors including the B.A. and B.S. in economics, but students majoring in other programs offered by the SBA are not eligible.

## Minor in human resources management

**Coordinator:** *Kenneth M. York*

The minor in human resources management consists of a minimum of 18 credits, described as follows: ORG 330, 331 and 434 and eight additional credits chosen from ORG 430, 431, 432, 433, 470 and 480, and any prerequisites for these courses. This minor is open to all students except SBA human resources management majors.



## Minor in international management

**Coordinator:** *Janell Townsend*

The minor in international management consists of a minimum of 16 credits, described as follows, and any prerequisites for these courses: ECN 210 or both ECN 200 and 201; ECN 373; MGT 423 and one course chosen from ECN 326, ECN 374, FIN 419, MKT 450 and ORG 470. Proficiency in a foreign language is not required but is highly recommended. This minor is open to all majors.

## Minor in management information systems

**Coordinator:** *Srinarayan Sharma*

The minor in management information systems consists of a minimum of 19 credits in the following courses and any prerequisites for these courses: CSE 125 or MIS 200, CSE 130 or 141 or 220, MIS 300, MIS 304 and 316. This minor is open to all students except MIS majors.

## Minor in marketing

**Coordinator:** *John Kim*

The minor in marketing consists of a minimum of 20 credits, described as follows, and any prerequisites for these courses: MKT 302, 353, 404 and any two courses chosen from MKT 405, 406, 420, 430, 450, 470 and 480. This minor is open to all students except marketing majors.

## Minor in production and operations management

**Coordinator:** *T.J. Wharton*

The minor in production and operations management consists of a minimum of 20 credits, described as follows, and any prerequisites for these courses: MIS 200 or CSE 125 or 130 or 141, QMM 240 and 241 (or QMM 250 or STA 226), POM 343 and any two courses chosen from POM 441, 445, 448, 480 and QMM 452. This minor is open to all majors.

## Minor in quantitative methods

**Coordinator:** *David P. Doane*

The minor in quantitative methods consists of a minimum of 18 credits, described as follows, and any prerequisites for these courses: CSE 130 or 141, QMM 240 and 241 (or QMM 250 or STA 226) and any three courses chosen from QMM 440 or 452; POM 448; MIS 444 or 446; ECN 405; STA 323 or 324. This minor is open to all majors.

## Policies and Procedures

### High school admissions

For entering freshmen, admission to pre-business is restricted to those presenting a 2.80 cumulative grade point average in high school academic courses and at least four years of college preparatory mathematics courses.

### Transfer policy

Transfer students must have a 2.80 cumulative grade point average and mathematics through algebra for admission to pre-business.

Evaluation of transfer courses is a two-part process. General education and composition courses are evaluated by the Academic Records Office. Business courses, including any required computer science courses, are evaluated by the School of Business Administration. Credit for specific SBA courses is authorized for courses of similar content taken at other colleges and universities accredited by a regional accrediting agency. Students transferring from other institutions may be required to submit course descriptions and related materials to aid in these transfer evaluations. See *Transfer student information* for additional information.

### Internal transfer

Oakland University students seeking admission to pre-business from other programs will be considered for admission after they have completed MTH 121 (or an equivalent) with a grade of 2.0 or better. An overall GPA of 2.60 or better in at least 12 credits at Oakland University is also required.

### Second majors

Students who return to the SBA to complete a second major after graduating with a business major from OU must complete all courses remaining for that second major at Oakland University.

### Unsatisfactory performance

Numerical grades less than 2.0 and U grades are considered substandard. A course in which a grade below 2.0 has been earned may not be subsequently passed by competency examination or independent study. A student can repeat, either at Oakland University or at another approved institution, any business precore course in which a 2.0 grade is required. However, if a student repeats a course at another institution, the original grade attained in the course at OU will be included in the student's GPA. See "Repeating courses" in the *Academic policies and procedures* section of the catalog for more specific information on university rules governing course repeats.

### Grade Appeals

If a student wishes to dispute a final grade in a course, he or she must submit a written appeal to the appropriate department chair no later than the following deadlines:

1. If the course was taken in winter, spring or summer terms, the written grade appeal must be submitted no later than the end of the subsequent fall semester.
2. If the course was taken in fall semester, the written grade appeal must be submitted no later than the end of the subsequent winter semester.

### Prerequisites

In planning their schedules, students should ensure that they satisfy prerequisite and corequisite conditions for courses. **Students who have registered for courses for which they do not meet the conditions may have their registration canceled and will be liable for any financial penalties incurred.**

### Independent Study

The purpose of an Independent Study is to provide *highly motivated students* the opportunity to construct a *unique educational experience* that goes beyond the courses contained in the existing course catalog. The basic rules for Independent Study are:

1. Student must have at least a 3.0 cumulative overall GPA.
2. Students must have achieved major standing
3. Independent Study cannot be used in lieu of a required course.

4. It is the student's responsibility to develop an appropriate area of Independent Study and to arrange for a full-time faculty member to direct the Independent Study.
5. Part-time SBA faculty members cannot supervise an Independent Study.
6. The Independent Study contract must be completed by the student and signed by the faculty adviser, department chair and the Coordinator of Undergraduate Advising prior to registering for the course.
7. It is expected that the student will perform an amount of work equivalent to a regular course with the same amount of credits and that a substantive tangible output (exam, written paper, computer program, etc.) will be developed.
8. Interdisciplinary cooperation is permitted and a non-SBA faculty member may co-supervise the Independent Study. An SBA faculty member must be a supervisor and is responsible for assigning a final grade.
9. The student must be made aware of the basis for grading prior to registering for an Independent Study.
10. Undergraduate students cannot register for Independent Study if they already have or are taking more than eight cumulative credits of Independent Study unless an exception is agreed to by the SBA's Committee on Instruction.

## Assessment

To assist in the continuous improvement of its programs, the SBA engages in a range of assessment efforts. Students are expected to actively participate in these assessment and improvement efforts. Assessment activities include the following:

Standard tests: Students may take a pre-test at the start of any program in the SBA, and will be tested on acquired knowledge and skills in the SBA capstone course. Not graded individually, these tests are used to assess the average performance of students in the program.

Student/alumni satisfaction surveys: Periodically, current students and alumni are surveyed to provide feedback to the school's faculty, staff and students on the performance of the SBA's programs.

## Policy regarding non-business majors

All students who are not majors in the School of Business Administration and economics majors in either the School of Business Administration or the College of Arts and Sciences, whether they have applied for a minor or not, are limited to no more than 25 percent of their total degree credits in business courses. The maximum of 25 percent of total degree credits includes courses taken at Oakland University and all previous colleges. Economics (ECN) courses, QMM 240, 241, 250 and 452 are excluded from this requirement. Therefore, students from majors outside the business administration program may not earn more than 25 percent of total degree credits in transfer plus Oakland credits in ACC, ATB, FIN, MGT, MIS, MKT, ORG, POM or QMM courses (excluding those noted above).

## Additional Information

### Career Experience

The Career Experience unit of Career Services assists students in gaining non-credit paid work experience related to their major that will enhance their classroom learning, increase their motivation to graduate, augment their career knowledge, and improve their job-seeking skills and employability. Opportunities are offered in the following programs: Career-related jobs, Internships (corporate and grant funded), and Cooperative Education. Students in the School of Business Administration who want to combine relevant work experience with their education are encouraged to participate in such programs.

Students are placed in jobs in business, non-profit or governmental organizations similar to those held by recent Oakland University graduates. All students are encouraged to explore these programs and other job/career related information on the Career Services web site at <http://www2.oakland.edu/careerservices> or by contacting the Career Services office at 275 West Vandenberg Hall, 248-370-3250.

## Honors, awards and scholarships

In addition to being eligible for honors available to all Oakland University undergraduates, students in the School of Business Administration are eligible for the following:

**School honors** are awarded by the SBA to graduating students who have completed a minimum of 32 credits in SBA courses with a minimum GPA of 3.33 in courses offered in the school.

**American Marketing Award:** The Detroit chapter of the American Marketing Association awards certificates of achievement for scholarship and service to marketing majors.

**Beta Gamma Sigma:** Beta Gamma Sigma is the national honor society for business schools accredited by AACSB (International) (The Association to Advance Collegiate Schools of Business). Membership in Beta Gamma Sigma is one of the highest scholastic honors that a student in business administration can achieve. It is based on outstanding scholastic achievement as measured by overall grade point average. Invitation for membership to Beta Gamma Sigma is extended to graduating seniors in the top 10 percent of their class and juniors in the top 5 percent of their class.

**Financial Executives Institute Award:** This award is presented annually to the undergraduate accounting or finance student who has demonstrated the highest standard of academic excellence. The student is honored at a meeting of the Detroit chapter of the Financial Executives Institute. Selection is made by the accounting and finance faculty of the SBA.

**Omicron Delta Epsilon:** Omicron Delta Epsilon is a national honor society for promising economics students. Selection for membership is made by the economics faculty.

**Wall Street Journal Student Achievement Award:** This award is presented annually to the graduating senior who has demonstrated the greatest academic and leadership achievement in the SBA. Selection is made by the faculty.

## School of Business Administration awards/scholarships

**Accounting and Finance Advisory Board Accounting Scholarship:** This \$1,000 scholarship is awarded annually to an undergraduate accounting major who exhibits a strong interest in pursuing a career in accounting and demonstrates leadership. The scholarship winner is selected by the AFAB scholarship committee. The award can be applied against Oakland University tuition and fees.

**Accounting and Finance Advisory Board Finance Scholarship:** This \$1,000 scholarship is awarded annually to an undergraduate finance major who exhibits a strong interest in pursuing a career in finance and demonstrates leadership. The scholarship winner is selected by the AFAB scholarship committee. The award can be applied against Oakland University tuition and fees.

### Applied Technology in Business Scholarships (ATIB):

These two-year full scholarships (tuition for up to 64 credit hours plus fees for four terms) were established to support students who have been accepted into the program and minor in Applied Technology in Business. This support allows students to focus their learning on the proactive use of information technology (IT) in solving corporate sponsored business problems. The program is competitive and the number of scholarships available is dependent on the number of organizations that sponsor the ATIB Program. Minimum criteria for application to the program include: junior standing, a minimum GPA of 3.00 and at least a 3.0 in MIS 200 (or CSE 125).

**Bud Kulezsa Family Endowed Scholarship Fund:** This \$1,000 scholarship is awarded annually to the undergraduate accounting major who has completed at least two accounting courses beyond ACC 210, has at least a 3.00 overall GPA, and has at least a 3.00 GPA in accounting courses. Foreign language ability and evidence of an entrepreneurial spirit will enhance the application.

**DaimlerChrysler Scholarship:** To promote diversity in the SBA, two one-year scholarships of \$2,000 apiece will be awarded to students pursuing a degree in the SBA. One award will go to a first time college freshman and one to a transfer student. These awards are renewable for up to four years for the freshman and up to three years for the transfer student.

**Diane and Michael Grieves Endowed Diversity Scholarship:** This scholarship was established in recognition of the importance of a diverse workforce in the field of management information systems, and in recognition of the central role played by the SBA in educating highly skilled MIS graduates. This one-year \$3,000 scholarship for tuition and fees will be awarded to a minority student pursuing a degree in management information systems who can demonstrate financial need.

**Dicron Tafraalian Memorial Scholarship:** This \$1,000 scholarship is awarded annually, on a merit basis, to a continuing accounting major at Oakland University. Selection is made by the accounting faculty of the SBA. This scholarship was established in memory of Dicron Tafraalian, who served in administrative capacities at Oakland University for many years.

**Fidelity Bank Award:** This scholarship was established to assist financially disadvantaged minority students and to promote diversity 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 2.80 or above. This is a one year \$1,500 scholarship for tuition and books.

**Francis C. Amos SBA Alumni Scholarship:** This \$1,000 per academic year scholarship is renewable for up to two academic years (2 regular terms per calendar year) based on maintaining scholarship criteria. This scholarship is open to juniors and seniors who have completed at least 59 credits and have SBA major standing. Students must maintain 3.40 GPA in SBA and 3.00 overall GPA.

**Gale Blank Copple Endowed Economics Scholarship:** This \$1,000 scholarship is given annually in recognition of outstanding achievements in economics and overall academic accomplishments to a member of Oakland University's Women's Economic Society. Applicants must have senior standing and must maintain full-time status during the next academic year. They must have completed at least 4 courses in economics with a GPA of at least 3.00 and must have an overall GPA of at least 3.00.

**Marvin L. Katke Scholarship:** This scholarship awards \$2,000 to a junior or senior business major with at least a 3.00 GPA who demonstrates outstanding academic achievement and extra-curricular and/or civic involvement.

**Lorenz Awards for Rising Seniors:** These awards are to recognize academic excellence in SBA juniors who are moving into their senior year; a full tuition scholarship for the senior year will be awarded to the junior student who has the highest overall GPA in the SBA; \$2,000 goes to the student with the second highest GPA; \$500 awards go to the two students with the third and fourth highest GPA.

**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, \$5,000 scholarship for tuition and books.

**Paul F. Lorenz/Texas Instruments Excellence Awards:** These awards are based on undergraduate academic excellence. Awards of \$1,000 and \$500 will be made to two graduating seniors with the highest overall GPAs.

**Professor Ronald M. Horwitz Outstanding Finance Student Scholarship:** This \$1,000 award is given to the graduating undergraduate finance major with the best combination of academics and activities, as determined by the Department of Accounting and Finance faculty. Significantly greater emphasis is placed on academic performance in finance courses. Serving in a leadership role in student activities will also be an important factor.

**School of Business Administration Alumni Affiliate Scholarship:** This \$1,000 per semester scholarship is available for up to two semesters. It is open to juniors and seniors who have completed 59 credits and who have declared SBA major standing. Recipients must maintain 3.00 overall GPA and be full-time students.

**Stephan and Rita Sharf Scholarship:** A scholarship awarded annually to an upper division student who will be enrolled full-time in the SBA. Selection is based upon academic achievement and demonstrated financial need. The award amount varies.

**TMBKS Accounting Award:** This \$1,000 scholarship is awarded annually to an undergraduate accounting major. Candidates must have completed at least two accounting courses beyond ACC 210, have at least a 3.00 overall GPA, and have at least a 3.00 GPA in accounting courses. Interest in pursuing a career in public accounting will enhance the application.

**TMBKS Economics Award:** This \$1,000 scholarship is awarded annually to an undergraduate economics major. Candidates must have completed at least two economics courses beyond ECN 201, have at least a 3.00 overall GPA, and have at least a 3.00 GPA in economics courses.

**TMBKS MIS Award:** This \$1,000 scholarship is awarded annually to an undergraduate MIS major. Candidates must have completed at least two MIS courses beyond MIS 200, have at least a 3.00 overall GPA, and have at least a 3.00 GPA in MIS courses.

**UHY Scholarship:** This \$1,000 scholarship is awarded annually to an undergraduate accounting major. Candidates must have at least junior standing, a 3.00 or higher GPA in courses taken at Oakland University, and have an interest in pursuing a career in public accounting. The scholarship can be used only for tuition and related fees.

**Volkswagen of America Corporate Leadership Scholarship Award:** These \$1,000 scholarship awards were established to assist talented students pursuing a career in business. Candidates must be full-time students, have achieved junior standing, have a GPA of 3.00 or above, and have demonstrated financial need.

## Course Offerings

Following are descriptions of the courses offered by the School of Business Administration. Required precore and core courses for students majoring in the business programs are generally offered each fall and winter semester and during either the spring or summer session.

The 300- and 400-level courses are designed for students with major standing in the SBA. These courses have major standing as a prerequisite, except for ACC 310, FIN 322, MIS 300, MKT 302, ORG 330, POM 343, and all economics (ECN) courses. The 300-level courses should be taken during the junior year (56-90 credits). Nonbusiness majors may elect 300- or 400-level courses if they meet the prerequisites (except for major standing).

The 500-level accounting courses are designed as advanced electives for undergraduate accounting majors and as electives for students in the Masters of Accounting program.

The school 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*.

## ACCOUNTING

### **ACC 200      Introductory Financial Accounting (4)**

Introduction to accounting information as an aid to decision-making for external users of financial statements. Students learn how to measure and record accounting data, prepare financial statements and analyze published financial accounting information.

Prerequisite: Sophomore status. MIS 200 or CSE 125 recommended.

### **ACC 210      Managerial and Cost Accounting I (4)**

Analysis of accounting methods providing data for optimal managerial decisions, implementation and control. Topics include cost allocation; cost, volume and price relationships; product cost accounting and control systems; operations and capital budgeting, and related behavioral, reporting and information processing aspects.

Prerequisite: ACC 200 and sophomore status.

### **ACC 301      Financial Reporting and Analysis (3)**

A study of financial accounting and reporting from the perspective of the user of accounting information. The course will emphasize the interpretation and analysis of specific accounting treatments rather than accounting methodology.

Prerequisite: ACC 210, major standing and junior status.

### **ACC 310      Intermediate Financial Accounting I (3)**

A study of financial accounting topics, including accounting valuation and reporting practices. Three major areas examined include financial accounting theory, current and noncurrent assets, and current and noncurrent liabilities.

Prerequisite: ACC 210 and junior status.

### **ACC 311      Intermediate Financial Accounting II (3)**

A continuation of ACC 310. Major financial accounting areas examined include stockholders' equity, dilutive securities, investments, income measurement issues, and the preparation and analysis of financial statements.

Prerequisite: ACC 310 and major standing.

### **ACC 318      Accounting Information Systems: Planning and Analysis (3)**

Focuses on business modeling and the integration of accounting systems with other information systems in the organization. Students should be capable of using the knowledge and modeling skills acquired in this course in order to develop modern, technologically relevant accounting information systems. The Systems Development Life Cycle is used as the course's logical framework, while the Information Engineering set of methodologies is used to model real-world business systems.

Prerequisite: ACC 210, MIS 300, and major standing.

### **ACC 320      Managerial and Cost Accounting II (3)**

An analysis of available procedures and techniques to sharpen accounting analyses for managerial planning and control. Extends subjects introduced in ACC 210 to non-manufacturing firms, decentralized firms, transfer pricing and segment performance measurement.

Prerequisite: ACC 210, major standing and junior status.

### **ACC 401      Advanced Financial Accounting (3)**

Topics include accounting and reporting for business combinations, partnerships, consolidated entities, interim financial statements and segments of business enterprises.

Prerequisite: ACC 311 and major standing.

### **ACC 411      Auditing (3)**

Introduction to the objectives, techniques, and standards of internal and external audits of the accounts of an enterprise. Generally accepted auditing standards will be critically examined.

Prerequisite: QMM 241 or QMM 250, ACC 311 or ACC 301, ACC 318 and major standing.

### **ACC 412      Government and Not-for-Profit Accounting (3)**

The characteristics of not-for-profit entities are analyzed and used to define the basic concepts of accounting for funds. Accounting and reporting principles applicable to governmental units, hospitals, schools and other nonprofit entities are discussed.

Prerequisite: ACC 310 or ACC 301 and major standing.

**ACC 415 Federal Income Taxation (3)**

An introductory tax course that focuses on fundamental federal income taxation concepts, with primary emphasis on business entities (e.g., C corporations, pass-through entities) and secondary emphasis on individual taxation. This course generally follows the objectives of the AICPA Model Tax Curriculum.

Prerequisite: ACC 310 or ACC 301 and major standing.

**ACC 480 Special Topics in Accounting (3)**

Intensive study of special topics in accounting. See schedule of classes for current offering. May be repeated for a total of 6 credits.

Prerequisite: ACC 301 or ACC 311 and major standing.

**ACC 490 Independent Study (1-3)**

Qualified and highly motivated students may engage in individual research, directed readings or group study under the supervision of a faculty member. Offered every term. May be repeated for a total of 6 credits.

Prerequisite: An overall GPA of 3.00 or better, major standing and an approved contract prior to registration.

**The following graduate level accounting courses are open to undergraduate accounting majors with permission of the Coordinator of Graduate Business Programs.**

**ACC 505 Business Law for Accountants (3)**

The course covers numerous areas of law that are important in the context of a business entity operating in the United States. It generally will cover topics suggested for business law on the Uniform CPA Exam. Students cannot receive credit for ACC 505 if they have already received credit for MGT 450.

Prerequisite: MGT 350 and major standing.

**ACC 521 Federal Income Tax II (3)**

The study of basic federal income tax laws relating to corporations, partnerships, estates and trusts. Topics include the formation, operation and taxation of corporations, partnerships, and other taxable entities.

Prerequisite: ACC 415 and major standing.

**ACC 526 Accounting Information Systems: Audit and Control (3)**

This course deals with audit and control aspects of information systems. Students will study the risks, controls, audit techniques and computer fraud detection techniques related to key information systems areas and will perform audit tests and fraud prevention and detection procedures.

Prerequisite: ACC 318 and major standing.

**ACC 533 Accounting Information Systems: Analysis and Design (3)**

Students will learn how to analyze modern technologically relevant financial information systems. The Systems Development Life Cycle (SDLC) is used as the logical framework and appropriate modeling technologies are used to analyze and design real-world business systems.

Prerequisite: ACC 318 and major standing.

**APPLIED TECHNOLOGY IN BUSINESS****ATB 306 Business and Information Technology Foundations (3)**

The role of information technology (IT) in advancing organizational goals and discussion of how IT solutions to solve business problems are crafted will provide the backdrop for introducing students to a number of tools and methodologies. These include: modeling organizations and their competitive environment, modeling business processes, conceptual data modeling, flowcharting, and program design and development using VBA and VBScript.

Prerequisite: Junior standing and acceptance into the ATIB program.

**ATB 307 IT Project Management (3)**

Students are assigned corporate sponsored projects so they can practice their problem solving and project management skills, with special focus on interviewing, task identification, time/resource estimation, setting milestones, and project presentation. Topics covered also include executive and knowledge based systems and inter-organizational systems.

Prerequisite: ATB 306.



**ATB 406 Information Management (3)**

Students continue to work on corporate student projects and practice additional skills such as meeting management, implementation and user training. Additional focus is innovative uses of IT, effective use of communications and networking, and management of diverse information needs as part of an organization's strategy.

Prerequisite: ATB 307.

**ATB 407 Corporate Internship (3)**

Students work at a corporate site and work on a specific project that has been agreed to by the program director and the corporation. The students manage the project on their own using a variety of skills they have acquired during the prior three semesters in this program.

Prerequisite: ATB 406.

**ECONOMICS****ECN 150 Economics in Today's World (4)**

Provides an overview of both macroeconomics and microeconomics. Students will learn about the law of supply and demand, economics of business, industry structure, international trade, exchange rates, inflation, unemployment, and fiscal and monetary policy. This is a survey course intended for students who desire a broad familiarity with a wide range of economic concepts. It does not provide adequate preparation for degrees in business or economics, and does not provide sufficient background for the Professional Engineering (PE) examination. Economics or business majors should **not** take this course (see specific requirements for those majors). *Satisfies the university general education requirement in the social science knowledge exploration area for 2005-2006. (Offered every fall and winter.)*

Prerequisite: None.

**ECN 200 Principles of Macroeconomics (4)**

Examines a broad range of macroeconomic concepts such as determination of national income, fluctuations in the economy, fiscal and monetary policies, money and banking, inflation and unemployment, and international economics. It also provides an introduction to a few key microeconomic concepts, such as scarcity, opportunity cost, supply and demand, and market processes. *(Generally offered every semester and term.) Satisfies the university general education requirement in the social science knowledge exploration area for 2005-2006.*

Prerequisite: High school algebra and sophomore status.

**ECN 201 Principles of Microeconomics (4)**

Provides an introduction to key microeconomic concepts. Examines operations of markets, theory of consumer demand, elasticity, organization of the firm, production and cost in the long and short runs, competition, externalities, market failures, legal and regulatory environment of business and international economics. It also explores economic perspectives on issues of ethnicity and gender in the U. S. economy. *(Generally offered every semester and term.)*

Prerequisite: High school algebra and sophomore status.

**ECN 210 Principles of Economics (6)**

Provides an introduction to principles of macroeconomics and microeconomics, covering the same topics as ECN 200 and ECN 201 combined but at an accelerated pace. Intended for highly motivated students with good writing and math ability. *Satisfies the university general education requirement in the social science knowledge exploration area for 2005-2006. (Generally offered fall semester.)*

Prerequisite: High school algebra, sophomore status and a GPA of 3.00 or better.

**ECN 250 Economic Principles - a Mathematical Approach (4)**

Analyzes the principles of microeconomics and macroeconomics using mathematics. Topics include: demand and supply, consumer theory, theory of the firm, market equilibrium, market structure, monitoring economic performance, aggregate demand and supply, macroeconomic policies, and long-run economic growth.

Prerequisite: MTH 154, MTH 155 and Sophomore Standing.

**ECN 302 Intermediate Macroeconomics (3)**

Deals with construction, analysis and interpretation of models of aggregate economic behavior, including the policy implications of alternative models, international interrelationships and assessment of contemporary controversies in national policy. *(Generally offered fall semester.)*

Prerequisite: ECN 201 or ECN 210, and MTH 122, and major standing except for economics B.S. and B.A. majors.

**ECN 303      Managerial Economics (3)**

Explores microeconomic theory and its application to managerial decision making. Examines consumer behavior, cost and output estimation, optimization, pricing issues in competitive and non-competitive markets, decision making under uncertainty and capital budgeting. (*Generally offered every semester and term.*)

Prerequisites: ECN 201 or ECN 210, and MTH 122 and major standing for business majors.

**ECN 304      Consumer Economics (3)**

The course emphasizes theories of consumer behavior and their applications to areas such as the individual and market demand curves, supply of labor, intertemporal choice of consumption, tax and public policies, and decision-making under uncertainty. Also emphasizes general equilibrium welfare economics, issues relating to equity and efficiency, the nature of public goods and externalities, consumer protection, and property rights. (*Generally offered winter semester.*)

Prerequisite: ECN 303, and major standing for business majors.

**ECN 309      State and Local Public Finance (3)**

Provides explanation and analysis of state and local public finance practices and problems. Topics include public goods and externalities, benefit-cost analysis, organization of sub-national governments, the budget process, and state and local revenues and expenditures. (*Offered with sufficient student demand.*)

Prerequisite: ECN 150 or ECN 201 or ECN 210, and major standing for business majors.

**ECN 310      Economics of the Environment (3)**

Involves the application of the tools of economic analysis to problems of energy, ecology and the environment. Topics include externalities and public goods, optimum use of fixed national resources, limits to economic growth and ecological aspects of principal pollution problems. (*Generally offered spring term of odd years.*)

Prerequisite: ECN 150 or ECN 201 or ECN 210, and major standing for business majors.

**ECN 315      Economics of Gender and Ethnicity (3)**

Employs basic economic principles and standard economic theories to explore and analyze issues of gender and ethnicity at the domestic, national and international levels. Also focuses on gender-related outcomes over time and across ethnic groupings. Key topics include: the economics of family structure; patterns of household and labor market activity; patterns of education and occupational choice; gender and ethnic earnings gaps; interplay of gender and ethnicity in the economy; theories of discrimination; and gender/ethnic issues in international perspective. *Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: ECN 150, ECN 201 or ECN 210, and major standing for business majors.

**ECN 321      Financial Markets and the Economy (3)**

Focuses on three areas: an introduction to banking and financial institutions, study of the U.S. financial markets (stock, bond and money markets), and the study of the impact of macroeconomic policies on the nation's economy and financial markets. (*Generally offered winter semester and summer term.*)

Prerequisite: ECN 150 or ECN 201 or ECN 210, and major standing for business majors.

**ECN 326      International Economic Development (3)**

The main theories of economic development applied to developing countries. Topics include decision-making at the individual and macro-levels; trade strategies; fiscal, monetary and exchange policies in promoting economic development; and the role of less developed countries in the global economy. (*Generally offered winter semester of odd years.*)

Prerequisite: ECN 150 or ECN 201 or ECN 210, and major standing for business majors.

**ECN 333      History of Economic Thought (3)**

Surveys the history and development of economic theory. Examines the development of classical theory, the Marxian challenge, the neo-classical refinement (marginal revolution) and the Keynesian revolution. Emphasis will be placed on the development of economics as intellectual history. (*Offered with sufficient student demand.*)

Prerequisite: ECN 150 or ECN 200 or ECN 210, and major standing for business majors.

**ECN 338 Economics of Human Resources (3)**

Surveys the nature of labor markets. Topics include labor demand and supply, education and investment in human capital, unemployment, geographic and occupational mobility of labor, and effects of race, sex and age in labor markets. (*Generally offered fall semester of odd years.*)  
Prerequisite: ECN 150 or ECN 201 or ECN 210, and major standing for business majors.

**ECN 367 Economics of Health Care (3)**

Application of tools of economic analysis to the health care industry and government health care policy. Examines the impact of the special characteristics of health care and the medical services industry on the pattern of health care produced, its distribution and resource allocation within the industry. (*Generally offered winter semester of even years.*)  
Prerequisite: ECN 201 or 210, and major standing for business majors.

**ECN 373 International Trade (3)**

Examines classical, neoclassical and modern theories of international trade, as well as trade policies. Topics include: the relationship between economic growth and international trade, the theory and practice of commercial policy, preferential trading arrangements, international factor movements, trade under imperfect competition, and trade between unequal partners. (*Generally offered every fall semester.*)  
Prerequisite: ECN 201 or ECN 210, and major standing for business majors.

**ECN 374 Economics of International Finance (3)**

Examines issues of balance of payments adjustment, exchange rate determination, and the open economy. Topics include: theories of payments and foreign exchange, causes of disturbances and processes of adjustments in the balance of payments of the foreign exchange market under alternative exchange rate regimes, international capital markets, foreign debt, monetary integration, and the international monetary system. *The course may not be substituted for FIN 419.* (*Generally offered winter semester of even years.*)  
Prerequisite: ECN 201 or ECN 210, and major standing for business majors.

**ECN 378 Economic Analysis of Law (3)**

Economic analysis of basic institutions of legal systems. Emphasis is on laws that are not directly intended to regulate the economy, including property, contract, tort, criminal and procedural law. Labor and antitrust law will be discussed only tangentially. (*Generally offered spring term of even years.*)  
Prerequisite: ECN 201 or ECN 210, and major standing for business majors.

**ECN 380 Topics in Economics (3)**

Study of a selected topic in economics. Emphasis is placed on the institutional rather than the theoretical aspects of the topic. May be repeated for a total of 6 credits as long as the topic covered is different. (*Offered with sufficient student demand.*)  
Prerequisite: ECN 201 or ECN 210, and major standing for business majors.

**ECN 385 Economics of Industries (3)**

Studies the structure of American industry and the factors affecting it, with emphasis on economies of scale; barriers to entry; structure-behavior relationships, including pricing, product differentiation and technical change; evaluation of performance, antitrust and regulation. (*Generally offered fall semester of even years.*)  
Prerequisite: ECN 201 or ECN 210, and major standing for business majors.

**ECN 405 Econometrics (3)**

Deals with estimation and testing of economic models using regression techniques. Class time includes weekly computer lab. Topics include: identifying and correcting violations of the regression assumptions, binary variables, distributed lag models, and simultaneous equation models. (*Generally offered every fall semester.*)  
Prerequisite: QMM 241 or QMM 250, ECN 303, and major standing for business majors.  
Corequisite: Weekly lab to accompany ECN 405.

**ECN 409 Urban and Regional Economics (3)**

Explores the application of microeconomic theory and empirical analysis to: residential choice and location of economic activities; migration patterns within and across states and metropolitan areas; major urban problems such as quality of life, transportation and optimum city size; urban sprawl; and Michigan's economy. (*Generally offered fall semester of even years.*)  
Prerequisite: QMM 241 or QMM 250, ECN 303, and major standing for business majors.

**ECN 418 Seminar in Economic Policy (3)**

Involves analysis of economic policy. Topics vary but may include resource allocation, macroeconomic stability, economic growth, energy, public choice, transitional economics, privatization, global economic interdependence and the environment. (*Generally offered fall semester of even years.*)  
Prerequisite: ECN 303, QMM 241 or QMM 250, and major standing for business majors.

**ECN 421 Monetary Economics (3)**

Conducts a systematic treatment of monetary economics. Particular attention is paid to issues such as money demand, money supply, effects of money on the real economy (output and employment) and inflation, and effectiveness of monetary policy. (*Generally offered winter semester of even years.*)  
Prerequisites: ECN 302 and major standing for business majors.

**ECN 456 Public Finance (3)**

Studies the role and impact of the public sector in a market economy. It examines government spending programs and taxes within the context of efficiency and equity. There is a strong emphasis on current policy issues. (*Generally offered winter semester of odd years.*)  
Prerequisite: QMM 241 or QMM 250, ECN 303 and major standing for business majors.

**ECN 480 Special Topics in Economics (3)**

Involves an intensive study of a selected topic in economics. Topics vary. See *Schedule of Classes* for current offering. May be repeated for a total of 6 credits as long as the topic covered is different. (*Offered with sufficient student demand.*)  
Prerequisite: ECN 303 and major standing for business majors.

**ECN 490 Independent Study (1-3)**

Qualified and highly motivated students may engage in individual research, directed readings or group study under the supervision of a faculty member. Offered every term. May be repeated for a total of 6 credits. (*Offered based on individual students' needs.*)  
Prerequisite: An overall GPA of 3.00 or better, major standing for business major and an approved contract prior to registration.

**FINANCE****FIN 322 Managerial Finance I (4)**

The basic elements of managerial finance. Topics include: capital budgeting techniques, financial structure and analysis, the cost of capital, working capital management and international financial management.  
Prerequisite: ECN 201, ACC 210, QMM 241 or QMM 250 and junior status.

**FIN 416 Investment Analysis (3)**

Provides a general framework for constructing portfolios and valuing investments. Important concepts include portfolio theory, credit analysis, valuation of call and conversions features on debt instruments, and fundamental analysis of equities and foreign assets.  
Prerequisite: FIN 322, ACC 301 or ACC 311 and major standing.

**FIN 417 Investment Portfolio Management (3)**

Analyzes trading in different types of spot and foreign assets, futures, options, and investment companies. Tax, transaction cost, and regulatory issues are evaluated, as are asset allocation and timing strategies, technical analysis, hedging, arbitrage, and portfolio management within the context of a financial plan.  
Prerequisite: FIN 416 and major standing.

**FIN 418 Financial Institutions and Capital Markets (3)**

Focus is on the structure and operations of financial intermediaries, analysis of innovative financial instruments, and credit and interest rate risk management.  
Prerequisite: FIN 322 and major standing.

**FIN 419 International Financial Management (3)**

The application of the tools of financial analysis to cases and the problems of firms that have operations in several countries.  
Prerequisite: FIN 322 and major standing.

**FIN 420 Real Estate Investment Analysis (3)**

A look at acquisition, financing and sale of income-producing real estate. Topics to be covered include feasibility, appraisal, investment, financing and taxation.

Prerequisite: FIN 322 and major standing.

**FIN 422 Managerial Finance II (3)**

The application of the tools of financial analysis to specific cases in the financial management of corporate businesses and nonprofit enterprises.

Prerequisite: FIN 322 and major standing.

**FIN 480 Special Topics in Finance (3)**

Intensive study of a selected finance topic. The topic will vary from term to term. May be repeated for a total of 6 credits.

Prerequisite: FIN 322, FIN 416, ACC 301 and major standing.

**FIN 490 Independent Study (1-3)**

Qualified and highly motivated students may engage in individual research, directed readings or group study under the supervision of a faculty member. Offered every term. May be repeated for a total of 6 credits.

Prerequisite: An overall GPA of 3.00 or better, major standing and an approved contract prior to registration.

**MANAGEMENT****MGT 110 Contemporary World Business (4)**

This course will introduce students to major business activities and how differences in cultures, socio-demographics, and political orientations effect doing business in a global environment. *Satisfies the university general education requirement in the global perspective knowledge exploration area. Satisfies the university general education requirement for a writing intensive course in general education.*

Prerequisite: Completion of the university writing foundation requirement.

**MGT 350 Legal Environment of Business (3)**

The legal framework of business decisions. Introduction to the legal system and a survey of government regulation of business. Legal, ethical and political issues in employment, consumer protection, antitrust and business associations.

Prerequisite: ECN 201 or ECN 210, major standing and junior status.

**MGT 423 International Business (4)**

Analysis of the scope, structure and environment — social, cultural, political, legal, economic and technological— of international business. Emphasizes the roles played by the various business functions, in presenting an integrated view of how managers of multinational firms cope with the complex international environment.

Prerequisite: Major standing.

**MGT 435 Management Strategies and Policies (4)**

Managerial problem perception and the application of economics, statistics, organizational behavior, accounting, finance, marketing and quantitative methods to the systematic analysis of case studies.

Prerequisite: Major standing, ENG 382, MKT 302, ORG 331, FIN 322, POM 343 and senior standing. For SBA majors only.

**MGT 450 Business Law (4)**

Survey of topics in private commercial law under the Uniform Commercial Code. Contracts, agency, property and insurance, secured transactions and commercial paper. Legal responsibilities of the licensed professions.

Prerequisite: MGT 350 and major standing.

**MGT 480 Seminar: Current Business Topics (4)**

The analysis of topics of current interest in management. Outside faculty and managers may participate in the seminar as an integral part of the course. May be repeated for a total of 8 credits.

Prerequisite: Major standing.

**MGT 490 Independent Study (2, 4)**

Qualified and highly motivated students may engage in individual research, directed readings or group study under the supervision of a faculty member. Offered every term. May be repeated for a total of 8 credits.

Prerequisite: An overall GPA of 3.00 or better, major standing and an approved contract prior to registration.

**MANAGEMENT INFORMATION SYSTEMS****MIS 200 Personal Productivity with Information Technology (4)**

Introduction to concepts, principles, and methods that knowledge workers use to organize and manage individual information resources, including the following information technology: the Internet, word processors, spreadsheets, graphics and database management systems. Hands-on exercises will be a major part of the course. Recommended for students intending to major in MIS.

**MIS 300 Management Information Systems (3)**

This course shows how information technology can improve business processes and help managers be more effective decision makers. Topics include network functions, database management and decision support.

Prerequisite: CSE 125 or MIS 200 and junior status.

**MIS 304 Database Management (4)**

Technology, organization, design, use and administration of database management systems (DBMS). Includes exercises using microcomputer and enterprise DBMS packages.

Prerequisite: A high-level programming language, MIS 300 and major standing.

**MIS 316 Systems Analysis (4)**

Theory and practice of developing information systems to meet user needs, including problem investigation and the analysis, design and implementation of systems. Topics include the systems development cycle, system modeling techniques, interface to database management systems, monitoring and control, review and maintenance, and project management. Includes class projects using a CASE tool.

Prerequisite: A high-level programming language, MIS 300 and major standing.

**MIS 400 Analysis of Complex Systems (3)**

Modeling, instrumentation and control of complex systems. Emphasizes design, implementation and testing of information and control systems in unstructured and realistic contexts. Includes specification, evaluation and selection of hardware and software systems, ranging from applications in microcomputers to mainframes.

Prerequisite: ECN 303, MIS 316 and major standing.

**MIS 405 Business Data/Telecommunications (3)**

Technology, design, management, and use of data, voice, image, and video communication networks. Topics include teleprocessing, micro-mainframe links, local area networks, wide area networks, telephone systems, electronic mail, transborder data flows and communication protocols. Includes exercises using various network configurations.

Prerequisite: MIS 300 and major standing.

**MIS 407 Projects and Problem Solving (3)**

An advanced communications and problem solving course in which students learn to specify and design systems for computers. Consists of field studies by teams of students leading to computerized solutions of real world problems.

Prerequisite: MIS 316, CSE 130 or CSE 141 or CSE 220, and major standing.

**MIS 416 Advanced Systems Analysis and Design (3)**

Students will develop a working system from a business case using an integrated CASE tool to produce data and process models, develop a design, generate code and test running code for the system. This course will build on the CASE tool skills in MIS 316 and provide project experience for students.

Prerequisite: MIS 304, MIS 316, and major standing.

**MIS 418      Network Management (3)**

This course provides a general overview of communications network design. Relevant data communication hardware and software characteristics are examined. Students are introduced to network models and design of local area networks and wide area networks along with Intranets and Extranets. The impact of communications technology on organizations as well as trends in the telecommunications industry are explored.

Prerequisite: MIS 300 or instructor's permission and major standing.

**MIS 420      Electronic Commerce (3)**

This course provides students with an analytical and technical framework to understand the complex world of e-commerce. Topics include the complexities of the marketplace, design and implementation of an Internet business, and issues surrounding privacy, security and the protection of intellectual property on the Internet

Prerequisite: MIS 300 and major standing.

**MIS 421      Advanced Business Applications (3)**

Sophisticated business information systems will be analyzed, designed and programmed using advanced 3GL capabilities such as COBOL's report writer, relative, direct, and indexed files, and comparisons with 4GLs. Applications in accounting, finance, marketing, human resources and production will be emphasized.

Prerequisite: MIS 300, CSE 130 or CSE 141 and major standing.

**MIS 422      Business Object Development (3)**

The primary focus of the course is on the principles and applications of object-oriented methods in information systems. Object-oriented concepts and software design and programming principles will be introduced. The purpose of the course is to train students to write reasonably complex business application programs using higher level languages such as Java.

Prerequisite: MIS 300, CSE 130 or CSE 141 and major standing.

**MIS 424      Business Application Architecture (3)**

This course focuses on issues related to server-side aspects of web-based applications. It introduces several solution architectures and their relative advantages and disadvantages. Server-side technologies are introduced, such as Java Servlets, Java Server Pages and Java Beans. This project-based course allows students to design and build server-side applications.

Prerequisite: MIS 422 or instructor's permission and major standing.

**MIS 426      GUI Application Development (3)**

Students learn how to build graphical user interface (GUI) programs for common business applications. Topics include client/server systems, GUI standards, event-driven programming models and database interaction.

Prerequisites: MIS 304 , MIS 316 and major standing.

**MIS 428      Web Application Development (3)**

This course studies the design, creation and implementation of information systems using the technology of the world wide web, including HTML, client- and server-side scripting languages and databases.

Prerequisite: MIS 300 or instructor's permission, and major standing.

**MIS 436      Decision Support Systems (3)**

Examines the design and implementation of decision support systems. Considers the roles of expert systems and artificial intelligence in decision making. Includes a critical review of theory and case studies taken from recent MIS literature.

Prerequisite: MIS 300 and major standing.

**MIS 442      IS Issues in Supply Chain Management (3)**

Information technologies have enabled the efficient flow of information, materials and services from raw materials suppliers through to final consumers by advancing supply chain integration and coordination. Aspects related to logistics, operations and information systems, as well as coordination strategies and supply chain partnerships are included.

Prerequisite: MIS 300 or instructor's permission, and major standing.

**MIS 444      Simulation in Management (3)**

Computer simulation modeling of business process including a variety of software tools and techniques including discrete event, Monte Carlo and systems dynamics. Implications of models and sensitivity analysis for forecasting, planning and decision making in the management environment are explored.

Prerequisite: CSE 130 or CSE 141, MIS 300, and major standing.

**MIS 446      Business Analysis and Modeling (3)**

Focuses on the complementary use of quantitative modeling and information technology for analyzing business problems. The emphasis is on end-user development of model- and data-based supports for managerial decision making using various software tools such as spreadsheets and databases.

Prerequisite: CSE 130 or CSE 141, QMM 240 or QMM 250, MIS 300 and major standing.

**MIS 480      Advanced Topics in MIS (3)**

An advanced course involving study of current research issues and recent developments in MIS. Topics vary. See *Schedule of Classes* for current offerings. May be repeated for a total of six credits.

Prerequisite: MIS 300, MIS 304 or MIS 316, and major standing.

**MIS 490      Independent Study (3)**

Qualified and highly motivated students may engage in individual research, directed readings or group study under the supervision of a faculty member. Offered every term. May be repeated for a total of six credits.

Prerequisite: An overall GPA of 3.00 or better, major standing and an approved contract prior to registration.

**MARKETING****MKT 302      Marketing (4)**

Analysis of the principles of marketing, marketing concepts and trends, and their relationship to other business principles. Special emphasis is placed on the study of the marketing mix.

Prerequisite: ECN 150 or ECN 200, and junior status.

**MKT 353      Marketing Management (4)**

A study of the overall marketing strategies pertaining to problems experienced in today's economy. Uses the case study method to analyze these problems. This course requires a knowledge of spreadsheets and financial statements.

Prerequisite: MKT 302 and major standing.

**MKT 404      Consumer Behavior (4)**

Study of factors influencing consumer behavior, structuring and managerial use of consumer decision-making models. Examination of social, psychological and economic variables of buying behavior, including learning, motivation, attitude, personality, small group dynamics, demographic and economic factors and culture.

Prerequisite: MKT 302 and major standing.

**MKT 405      Marketing Research (4)**

Focuses on the generation and management of information in marketing decisions. Covers the evaluation of additional marketing information, how it is acquired and used, the manager's role in market research and the researcher's role in supplying marketing information.

Prerequisite: MKT 302, QMM 241 or QMM 250, and major standing.

**MKT 406      Integrated Marketing Communications (4)**

A review of the selection and integration of advertising, promotion, public relations and personal selling budgets. Focused on understanding the whole process from planning to evaluating campaign results.

Prerequisite: MKT 302 and major standing.

**MKT 420      Distribution Channels Management (4)**

Examination of the management of marketing channel relationships. Focuses on the characteristics and social, economic and political relationships among wholesalers, agents, retailers and the other agencies that comprise distribution channels.

Prerequisite: MKT 302 and major standing.



**MKT 430 Sales and Sales Management (4)**

Focuses on the activities of selling and those of the first line sales managers. Emphasis is on how salespeople interact with customers and prospects, i.e., how to sell and how first line sales managers manage his/her field sales force.

Prerequisite: MKT 302 and major standing.

**MKT 450 International Marketing (4)**

The application of marketing principles to problems associated with marketing products and services to different nations. Cases in international marketing will be analyzed.

Prerequisite: MKT 302 and major standing.

**MKT 470 Business to Business Marketing (4)**

The study of the interaction of businesses with one another in the buying and selling of goods that facilitate the production process or are used as components in the goods manufactured by the buying firm. Focus is on how business to business marketing decisions are or should be made in selling in the business environment.

Prerequisite: MKT 302 and major standing.

**MKT 480 Seminar in Marketing (4)**

Study of a selected topic or current marketing interest relevant to marketing management. Topics may include retail management, new product development, web marketing, e-commerce, services marketing or any area not covered by a specific course. May be repeated for a total of 8 credits.

Prerequisite: MKT 302 and major standing.

**MKT 490 Independent Study (2, 4)**

Qualified and highly motivated students may engage in individual research, directed readings or group study under the supervision of a faculty member. Offered every term. May be repeated for a total of 8 credits.

Prerequisite: An overall GPA of 3.00 or better, major standing and an approved contract prior to registration.

**ORGANIZATIONAL BEHAVIOR****ORG 330 Introduction to Organizational Behavior (3)**

Examination of the theoretical and empirical issues that affect the management of individual, group and organizational processes including structure, motivation and leadership.

Prerequisite: Junior status.

**ORG 331 Introduction to the Management of Human Resources (3)**

Examination of applied issues relevant to the management of human resources including recruitment, selection, performance appraisal, introduction to applied research, international human resources management and organizational development. Projects applying course concepts are required.

Prerequisite: ORG 330 and major standing.

**ORG 430 Organizational Research Methods (4)**

Use of various behavioral research strategies as input for managerial problem solving. Review of data collection and feedback procedures, including formal research designs and action research. Computer-based exercises will be required.

Prerequisite: ORG 331, QMM 241 or QMM 250, and major standing.

**ORG 431 Leadership and Group Performance (4)**

Comprehensive examination of selected theories of leadership. Emphasis on relevant empirical evidence and application of the theories to case studies that involve leadership behavior and group functioning.

Prerequisite: ORG 331 and major standing.

**ORG 432 Motivation and Work Behavior (4)**

Analysis of individual and organizational factors affecting employee motivation, performance and satisfaction in the work environment. Topics include the role of leadership, job design, environmental variation, compensation policies, goal-setting techniques and group influences, as each affects employee attitudes and behavior.

Prerequisite: ORG 331 and major standing.

**ORG 433 Labor/Management Relations (4)**

Analysis of management/employee relations in the private and public sector. Topics include factors influencing the supply and demand for labor, evolution and governance of unions, collective bargaining and public policy.

Prerequisite: ECN 201 and major standing.

**ORG 434 Advanced Human Resources Management (4)**

Discussion of advanced topics in human resources. Topics include compensation, employee involvement, information systems, development, assessment and selection. A project is required.

Prerequisite: ORG 331 and major standing.

**ORG 470 International Organizational Behavior and Human Resources Management (4)**

Examines both international organizational behavior and human resource management in order to prepare for work in a global environment. Cross-cultural training, managing global managers, compensation, labor relations and repatriation are among the topics covered. Offered every other year.

Prerequisite: ORG 331 and major standing.

**ORG 480 Topics in Organizational Management (4)**

Intensive study of a selected topic relevant to organizational behavior and/or human resource management. Topics will vary from term to term and may include career development, compensation, men and women at work, industrial health and safety, management across cultures and power in organizations. May be repeated for a total of eight credits.

Prerequisite: ORG 331 and major standing.

**ORG 490 Independent Study (2, 4)**

Qualified and highly motivated students may engage in individual research, directed readings or group study under the supervision of a faculty member. Offered every term. May be repeated for a total of eight credits.

Prerequisite: An overall GPA of 3.00 or better, major standing and an approved contract prior to registration.

**PRODUCTION AND OPERATIONS MANAGEMENT****POM 343 Operations Management (4)**

Study of operations of manufacturing and service organizations. Introduction to operational design and control issues such as forecasting, capacity planning, facility location and layout, production control, material requirements planning, scheduling and quality assurance. Includes international, legal and ethical aspects, as well as computer exercises.

Prerequisite: QMM 241 or QMM 250 or STA 226, and junior status.

**POM 441 Manufacturing Planning and Control (4)**

Definitions, techniques and practices in manufacturing applications, including traditional manufacturing techniques as well as current issues such as cellular and flexible manufacturing systems. Emphasizes differences between American and foreign manufacturing techniques.

Prerequisite: POM 343 and major standing.

**POM 445 Cases in Operations Management (4)**

Analysis of diverse cases from the perspective of the operations function in service and manufacturing organizations. Cases are descriptive of actual operating situations. Covers situations that lend themselves to analytical and computer techniques as well as problems involving subjective judgment and creativity in translating theory into practice.

Prerequisite: POM 343 and major standing.

**POM 448 Project Management Techniques (4)**

An examination of the various math-based techniques for managing projects. The topics include Program Evaluation Review Technique (PERT) and Critical Path Method (CPM). Includes computer exercises.

Prerequisite: POM 343 and major standing.

**POM 480 Special Topics in Operations Management (4)**

Intensive study of a selected topic in production/operations management. Topics vary. See *Schedule of Classes* for current offering. May be repeated for a total of eight credits as long as the topic covered is different.

Prerequisite: POM 343 and major standing.

**POM 490 Independent Study (2, 4)**

Qualified and highly motivated students may engage in individual research, directed readings or group study under the supervision of a faculty member. Offered every term. May be repeated for a total of eight credits.

Prerequisite: An overall GPA of 3.00 or better, major standing and an approved contract prior to registration.

**QUANTITATIVE METHODS****QMM 240 Statistical Methods for Business I (3)**

Descriptive statistics, probability, probability distributions, sampling distributions, estimation, and hypothesis tests. Emphasizes business applications and computer analysis of data. Includes report writing and computer projects.

Prerequisite: MTH 121 or MTH 141, and CSE 125 or CSE 130 or MIS 200.

**QMM 241 Statistical Methods for Business II (3)**

Continuation of QMM 240. Analysis of variance, nonparametric statistics, correlation, regression, statistical process control, and time series analysis. Emphasizes business applications and computer analysis of data. Includes report writing, computer projects, and presentations.

Prerequisite: MTH 122 or 154, and QMM 240 or equivalent.

**QMM 250 Statistical Methods for Business (6)**

Covers the same topics as QMM 240 and QMM 241 combined. Intended for motivated students with good writing and analytical skills.

Prerequisite: MTH 122 or MTH 154 and CSE 125 or CSE 130 or MIS 200.

**QMM 440 Management Science (4)**

Overview of quantitative methods used in managerial decision making. Includes decision analysis, linear, integer, and dynamic programming, networks, PERT/CPM, simulation, waiting-line models and Markov chains. Emphasizes the use of computer software in formulation and analysis of management science models.

Prerequisite: QMM 240 or QMM 250 or STA 225 and major standing.

**QMM 452 Forecasting (4)**

Survey of time-series forecasting, including trend-fitting, exponential smoothing, decomposition, ARIMA, and neural nets. Econometric topics include seasonal binaries, autocorrelation, lagged variables, multicollinearity, causality tests, and vector autoregression. Industry case studies and discussion of current economic conditions and managerial implementation. Extensive use of computer packages. Frequent written projects and oral presentations.

Prerequisite: QMM 241 or QMM 250, and major standing.

**QMM 490 Independent Study (2, 4)**

Qualified and highly motivated students may engage in individual research, directed readings or group study under the supervision of a faculty member. Offered every term. May be repeated for a total of 8 credits.

Prerequisite: An overall GPA of 3.00 or better, major standing and an approved contract prior to registration.

# SCHOOL OF EDUCATION AND HUMAN SERVICES

415 Carlotta and Dennis Pawley Hall

(248) 370-3050

Fax: (248) 370-4202

**Dean:** *Mary L. Otto*

**Associate Deans:** *Dawn M. Pickard, Robert A. Wiggins*

**Office of the Dean:** *Vacant, director PSA/Urban Partnerships; Paul A. Battle, adviser; Sandra K. Deng, adviser; Greg Gallup, information technology specialist; Helen Gauntt, assistant coordinator, field placements; Judith M. Hoppin, executive director, professional development; Sherrill M. Karppinen, coordinator, field placements; Donna Malaski, adviser; Linda Robak, director, professional development; Marvella Ramsey, financial analyst; Lisa Reeves, assistant dean; Shannon L. Spann-Revels, coordinator PSA/Urban Partnerships; Kim Spampinato, coordinator, counseling practicum laboratory; David Tindall, adviser*

**Adult Career Counseling Center:** *Department of Counseling, Jane Goodman, director*

**Ken Morris Center for the Study of Labor and Work:** *Michael P. Long, program director*

**Lowry Center for Early Childhood Education:** *Department of Human Development and Child Studies, Carol Swift, chair*

**School of Education and Human Services Counseling Center:** *Department of Counseling, Luellen Ramey, chair*

## Programs Offered

The School of Education and Human Services offers programs designed to prepare students for careers in teaching and related human service activities. The programs include a Bachelor of Science in elementary education, a five-year secondary education program leading to teaching certification for selected majors, and a Bachelor of Science in human resource development. Minors in human resource development and in labor and employment studies are also available. Students considering a major in elementary education should consult the *Admissions* section of this catalog for specific preparation requirements.

The School of Education and Human Services also offers programs leading to the Doctor of Philosophy in reading, counseling, early childhood education, educational leadership, and music education, the Education Specialist in school administration, the Master of Arts in counseling, the Master of Arts in Teaching in reading and language arts, the Master of Education in four areas: early childhood; educational studies; educational leadership; and special education and the Master of Training and Development. For information on these programs, see the *Oakland University Graduate Catalog*.

## Additional Services

### Adult Career Counseling Center

Located within the SEHS Counseling Center is the Adult Career Counseling Center (ACCC), which provides career counseling to adults in Oakland County at no cost to the client. The ACCC can be reached at 248-370-3092 and <http://www2.oakland.edu/sehs/accc/>.

## **Advising Office**

The School of Education and Human Services (SEHS) Advising Office (363 Pawley Hall, 248-370-4182) is responsible for providing academic advising and career counseling for students in the Bachelor of Science degree in elementary education and secondary education, and for second undergraduate degree students seeking initial certification. The HRD Advising Office (430 A/C Pawley Hall, 248-370-3066) is responsible for providing academic advising and career counseling for students in the Bachelor of Science degree program in Human Resource Development.

## **Professional Development**

The Professional Development Office (373 Pawley Hall, 248-370-3033, [www.oakland.edu/profdev](http://www.oakland.edu/profdev).) coordinates off-campus courses, certificate, distance/on-line learning, and other programs for teachers, school administrators, counselors, human resource personnel, and training and development professionals. As an outreach unit of the School of Education and Human Services, the office creates partnerships with organizations desiring university credit or continuing education units for staff development programs.

Professional development staff also provides consulting services, staff training and training materials in career development and leadership for career development personnel working in agencies, business and industry, government and education.

## **Lowry Center for Early Childhood Education**

The Lowry Center for Early Childhood Education (248-370-4100) provides year-round programs for young children, toddlers through kindergarten-age. The center is a research and training facility for students and faculty concerned about child growth and development.

## **Ken Morris Center for the Study of Labor and Work**

The Ken Morris Center for the Study of Labor and Work (495C Pawley Hall, 248-370-3124) provides teaching, research, consultation and public service activities for labor organizations and their members. It coordinates the Minor in Labor and Employment Studies and oversees other credit and non-credit courses, primarily for adult working students who are active in unions. Courses, conferences, residential institutes and special lectures and training, taught at on- and off-campus locations, are offered on topics related to work, the needs of working people and labor organizations, and other areas of special concern to union members, leaders and staff.

## **Field Placements and Internships**

The Office of Field Placements (385 Pawley Hall, 248-370-3060) is responsible for the placement of pre-service interns in elementary, secondary and music education.

## **Educational Resources Laboratory**

The Educational Resources Laboratory (350 Pawley Hall, 248-370-2485) provides support for the academic, research and development activities of the School of Education and Human Services. Patrons are provided with a functional setting for the examination, study, research, development, production, and evaluation of instructional materials and technologies. Workshops, seminars and consultation services in instructional technology and research strategies are available.

## **School of Education and Human Services Counseling Center**

The School of Education and Human Services (SEHS) Counseling Center, 250 Pawley Hall, 248-370-2633, offers personal and career counseling services to both Oakland University students and members of the surrounding communities at no charge. The SEHS Counseling Center is an instructional center for graduate students nearing the completion of their training. Counselors are closely supervised in their work by Licensed Professional Counselors. Go to <http://www2.oakland.edu/sehs/cc/> for more information.

# DEPARTMENT OF COUNSELING

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491B Pawley Hall

(248) 370-4179

Fax: (248) 370-4141

**Chair:** *Luellen Ramey*

**Professor emeritus:** *Howard Splete*

**Professors:** *Mary L. Otto, Jane S. Goodman*

**Associate professors:** *Thomas W. Blume, Elyce A. Cron, Robert S. Fink, James T. Hansen, Luellen Ramey*

**Assistant professors:** *Michael P. Chaney, Jr., Lisa D. Hawley, Diane L. Parfitt*

**Visiting assistant professor:** *Tonya Tookes-Reznik*

Within the School of Education and Human Services, the Department of Counseling offers an undergraduate course in Educational and Career Exploration. See the *Graduate Catalog* for the Master of Arts in Counseling, post-master's specializations in Mental Health Counseling, Child and Adolescent Counseling, Couple and Family Counseling, Advanced Career Counseling, School Counseling and Wellness Counseling. A Ph.D. program is offered with a focus on any of the above cognate areas.

## Course Offering

The department offers this selected course as warranted by student need. Specific offerings for each term may be found in the *Schedule of Classes*.

### **CNS 264      Educational and Career Exploration (2)**

Introduction of key aspects of personal career decision making, encompassing self assessment, occupational search, and the relationship between academic majors and future career options. Use of internet and computerized career assessment systems, inventories, and exercises in exploration, planning and goal setting.

# DEPARTMENT OF HUMAN DEVELOPMENT AND CHILD STUDIES

405B Pawley Hall

(248) 370-3077  
Fax: (248) 370-4242

**Chairperson:** *Carol A. Swift*

**Distinguished professor emeritus:** *Laszlo J. Hetenyi*

**Professor emeritus:** *Edward A. Bantel*

**Professors:** *Gerald G. Freeman, Ronald M. Swartz*

**Associate professors:** *Sandra M. Alber, Ambika Bhargava, Marc E. Briod, Andrew S. Gunsberg, M. Shannan McNair, Sherri L. Oden, Richard C. Pipan, Carol A. Swift*

**Assistant professors:** *Janet E. Graetz, James M. Javorsky, Erica A. Ruegg*

Within the School of Education and Human Services, the faculty of the Department of Human Development and Child Studies offer courses in educational foundations and special education at the undergraduate level for students pursuing a career in teaching. The department houses master's degree programs in early childhood education and special education; these graduate programs can provide teaching certificate endorsements and/or professional education certification requirements. The department also offers a doctor of philosophy degree in early childhood.

## 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*.

### FOUNDATIONS OF EDUCATION

#### **FE 210 Social and Philosophical Issues in Elementary Education (4)**

Study of elementary education in broad perspective, as both an interpersonal activity and a social institution. Topics include immediate and ultimate aims of elementary education, social and cultural differences within and between schools, and assumptions underlying school policy. Includes a required field experience.

Prerequisite: Admission to major.

#### **FE 215 Educational Psychology for Elementary Teachers (4)**

Incorporates and places into perspective learning theories, developmental theories, biological theories and evaluation, with emphasis on the effects of varied qualities of experience during childhood and early adolescence. Includes a required field experience.

Prerequisite: Admission to major.

#### **FE 301 Human Nature (4)**

An analysis of human nature through evolutionary, developmental, cultural and philosophical perspectives. Implications for the helping professions.



**FE 344 Social and Philosophical Issues in Secondary Education (4)**

Study of secondary education in broad perspective, as both an interpersonal activity and a social institution. Topics include immediate and ultimate aims of secondary education, social and cultural differences within and between schools, and assumptions underlying school policy.

**FE 345 Educational Psychology for Secondary Teachers (4)**

Psychological factors in learning and development are examined in lectures, class discussions and observations. These may be observations of actual teaching in the schools, or of videotapes of teaching. Attention to regular and exceptional development during the adolescent years. Required field experience: 30 clock hours of observation and interaction in local secondary classrooms in the student's minor area during the semester enrolled.

Prerequisite: Admission to secondary education program.

**SPECIAL EDUCATION****SE 355 Identifying Learning and Behavior Differences in Students (4)**

Familiarizes students with the characteristics of all types of exceptional students, including the gifted and talented. Introduces special education law and services for handicapped persons. Requires field placement in a special education setting where students practice informal observation and assessment techniques for determining individual differences.

Prerequisite: Admission to major; EED 354, EED 420, FE 210, FE 215, IST 396 and one from EED 305, EED 470 or MTD 201.

**SE 401 Introduction to Students with Special Needs (4)**

Introduction to special education, atypical children, individual differences, learner environment and instructional adaptations.

Crosslisting with SE 501.

# DEPARTMENT OF HUMAN RESOURCE DEVELOPMENT

435A Pawley Hall

(248) 370-4109

Fax: (248) 370-4095

Internet: [www2.oakland.edu/sehs/hrd](http://www2.oakland.edu/sehs/hrd)

**Chairperson:** *Michael P. Long*

**Professors emeriti:** *F. James Clatworthy, William C. Fish, William F. Moorhouse, Robert G. Payne*

**Associate professors:** *Susan M. Aubrey, Michael P. Long, Billy Joe Minor, James Quinn*

**Assistant professors:** *Tomas R. Giberson, Margaret A. Roytek, Chaunda L. Scott, Monica W. Tracey*

**Visiting assistant professors:** *Mark S. Doman, James A. Gall*

The Department of Human Resource Development (HRD) of the School of Education and Human Services offers a program leading to the degree of Bachelor of Science in Human Resource Development. This field of study supports the use of human development, organization development, training and development, ethics, employment systems, employment law, and career development principles and practices to enhance the quality, performance and satisfaction of individuals, groups and organizations. The degree program covers topics in areas related to instructional design and delivery, program evaluation, performance appraisal, personnel selection, recruiting, organization development, labor relations, employment law, employee involvement, and cultural diversity. Graduates are prepared with conceptual knowledge and technical and interpersonal skills for a variety of careers.

## Advising

Students should meet with the professional academic adviser for assistance with schedule planning, completing the program plan, interpreting degree requirements, admission to major standing, transfer credits, petitions of exception and graduation audits. The advising office is located in 430A-C Pawley Hall (248-370-3066). To avoid delays, students are encouraged to seek advising prior to early registration periods. A graduation audit should be obtained from the academic adviser at the beginning of the student's senior year (one year before planned graduation). The responsibility for meeting graduation requirements rests with the student.

## Degree requirements - major in human resource development

The curriculum described shall be followed by students admitted to pre-HRD status. Admission to pre-HRD status requires a cumulative grade point average of 2.50 or better. Students admitted to Oakland University status prior to fall 2005 may choose to satisfy either the degree requirements listed in this catalog or those in the catalog of the academic year in which they were initially admitted to Oakland University status (or any catalog during the interim), provided that catalog is not more than six years old at the time of graduation. Students who transfer to the School of Education and Human Services after admission to the university or who are readmitted to the university are required to follow the requirements of the catalog in effect at the time they transfer or are readmitted.

To earn a Bachelor of Science degree with a major in human resource development, students must:

1. Complete a minimum total of 124 credits.
2. Complete at least 32 credits in courses at the 300 level or above at Oakland University.
3. Take the last eight credits needed to complete the baccalaureate degree requirements at Oakland University.
4. Have a cumulative grade point average of at least 2.50.
5. Satisfy the writing requirement (see *Undergraduate degree requirements*).
6. Complete the university general education requirement with a minimum total of 40 credits (see *Undergraduate degree requirements*).
7. Satisfy the university U.S. diversity requirement (HRD 367 in the HRD major satisfies this requirement).
8. Complete the human resource development core and major courses (60 credits), human resource development internship or alternative (8 credits), human resource development electives (8 credits) and general electives (8 credits) with a minimum grade of 2.8 in each HRD course.

### **Admission to major standing in human resource development**

To be admitted to major standing a student must satisfy the following requirements:

1. Complete a minimum of 40 credits at an accredited college or university with a cumulative GPA of 2.50 or better. Courses that carry no numerical or letter grade (such as S/U) are excluded from calculation of the GPA.
2. Complete the HRD core courses with a minimum grade of 2.8 in each course.
3. Submit an "Application for Major Standing" during the semester in which the student expects to complete the core requirements.
4. Complete the preparation of an approved HRD program plan.

### **Required courses for the Bachelor of Science degree in human resource development**

The program leading to the Bachelor of Science degree in human resource development includes the following HRD courses, electives and internship.

#### **A. HRD Core Courses (16 credits)**

Core courses introduce important theoretical constructs and tool skills for pursuing a major in human resource development. Students must earn a minimum grade of 2.8 in each of the following core courses:

HRD 306	Introduction to Human Resource Development	4
HRD 351	Fundamentals of Human Interaction	4
HRD 367	Cultural Diversity	4
RHT 335	Writing for Human Resource Development Professionals	4
		16

#### **B. Major Courses (44 credits)**

The student may take up to eight credits of major courses before completion of the core courses and admission to major standing. Additional major courses may not be taken without admission to major standing. Major courses must be completed with a minimum grade of 2.8.

HRD 303	Ethics in Human Resource Development	4
HRD 307	Presentation and Facilitation	4
HRD 309	Technology Applications in HRD	4
HRD 310	Instructional Design	4
HRD 320	Introduction to Labor and Employment Relations	4
HRD 328	Employment Regulations and Benefits	4
HRD 372	HRD Staffing, Performance Evaluation and Interaction within Organizations	4
HRD 363	Group/Team Development and Leadership	4
HRD 364	Career Development	4
HRD 401	Change Process and Organizational Analysis	4
HRD 423	Instructional Methods	4
		<u>44</u>

**C. HRD Department Elective Courses** (8 credits minimum)

The HRD electives allow students to take courses offered by the HRD Department that support their individual interest and career aspirations within the field of human resource development.

**D. General Elective Courses** (8 credits)

The general electives allow students to take courses that support their individual interests and career aspirations. General elective courses must be at the 200 level or higher, and may be from HRD or any other field of interest.

**E. Human Resource Development Internship** (8 credits)

Eight internship credits must be completed at an approved placement site for a total of 320 hours. Applications for internship must be submitted by the designated deadlines (fall semester-June 15, winter semester-October 15 and spring/summer session-February 15). Applications will not be accepted after the deadline. Internship must be completed with a minimum grade of 2.8.

## Alternative to internship

An alternative to the HRD internship requirement may be requested by individuals who have completed a minimum of two (2) years of work in the field of Human Resources. Applications must be obtained from the HRD Internship Coordinator. Completed applications must be submitted no later than the dates designated above for internship approval. Applications will be reviewed for approval or disapproval by a committee of the HRD department, and will require:

1. Submission of at least three (3) projects that were completed by the applicant on the job that demonstrate proficiency in HRD, along with an analysis of these projects and describe how they satisfy the skill and knowledge requirements of the HRD-490 internship course.
2. Submission of a signed letter from a supervisor to verify the applicant had significant input into the completion of the projects.
3. Completion of two (2) additional HRD courses at the 300 level or above (8 credits total) with a minimum grade of 2.8 in each.

## Requirements - Minor in human resource development

The School of Education and Human Services offers a minor in human resource development for students who wish to strengthen their academic majors with course work in human resource development.

To obtain a minor in HRD a student must:

1. Complete the minor authorization form with the approval of the HRD minor coordinator.

2. Complete the minor core courses (16 credit hours) with a minimum grade of 2.8 in each course.
3. Complete an additional minimum of 8 credit hours of HRD courses with a cumulative grade point average of 2.80 or higher in each course.

Note: HRD 390 Independent Study in HRD, and HRD 490 Internship in HRD cannot be used to satisfy minor course requirements.

**Minor core (16 credits)**

HRD 306	Introduction to Human Resource Development	4
HRD 307	Presentation and Facilitation	4
HRD 351	Fundamentals of Human Interaction	4
HRD 363	Group/Team Development and Leadership	4
		16

Selected HRD courses		8
		24

## Requirements - Minor in labor and employment studies

Labor and employment studies is an interdisciplinary minor that provides an academic background for understanding the practical and theoretical bases of the employee/ employer relationship, both where a collective bargaining relationship exists and where it does not. This program may be particularly useful to individuals interested in the operational aspects of employment including the law, collective bargaining, employment regulations, personnel practices, philosophy of employment, and the dynamics of employment related leadership and participative roles.

This minor is open to any student who has been admitted to the university. Coursework is scheduled to maximize accessibility to both full-time undergraduates and part-time working students. **Students who seek to apply credits toward a degree must contact an adviser to design a degree plan and to select appropriate courses.**

This minor requires 23 or 24 credits distributed among the areas of preparation listed below. The plan of study is subject to the approval of the coordinator for the minor. The student must earn a final course grade of 2.8 or higher in each of the required courses in order for the class to be counted for the minor.

### 1. Course Requirements (23 or 24 credits)

- a. Must complete one of the following:
 

HRD 320	Introduction to Labor and Employment Relations (4)
HRD 321	Introduction to Public Sector Labor and Employment Relations (4)
- b. Must complete the following two courses:
 

HRD 324	Work and the Law (4)
HRD 328	Employment Regulations and Benefits (4)
- c. Must complete three of the following courses:
 

HRD 307	Presentation and Facilitation (4)
HRD 322	The Study of Labor and Work Organizations (4)
HRD 323	Negotiation (4)
HRD 326	Collective Bargaining and Dispute Resolution (4)
HRD 367 or	Cultural Diversity in the Workplace (4)
WS 322	Women in Modern America (4)
HRD 440	Strategic Planning (4)
OSH 235	Occupational Safety and Health Standards (3)

## Requirements - Minor in training and development

The minor in Training & Development is a specialized minor that is intended for students who are interested in training and development functions in the workforce. Students are provided with academic and practical knowledge, skills and classroom experience specifically in the areas of training and development, adult education and instructional design. This program may be particularly useful to individuals majoring in human resources, management, nursing, wellness and health promotion and education, as well as those with a general interest in designing, developing and delivering training and other presentations in their respective fields.

The minor is open to any student who has been admitted to the university. Courses are scheduled to maximize accessibility to both full-time undergraduates and working adult students. Students who seek to apply credits toward a degree must contact an adviser to design a degree plan and to select appropriate courses.

The minor requires 24 credits. The courses for the Minor in Training and Development are as follows:

HRD 306	Introduction to Human Resource Development (4)
HRD 307	Presentation and Facilitation (4)
HRD 310	Instructional Design (4)
HRD 402	Program Planning and Evaluation (4)
HRD 423	Instructional Methods (4)
HRD 470	Technology-based Instruction (4)

## Related minors and concentrations

Students who wish to obtain more than one minor must obtain the approval of the human resource development program adviser. If the minor or concentration is within a school other than SEHS, students must obtain approval from the adviser of the selected minor.

## Departmental honors

HRD departmental honors are available to students who meet the following standards: a 3.50 or better cumulative average for all courses taken at Oakland University; a 3.70 or better cumulative average in HRD Department courses (excluding HRD 490).

## 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*.

### HRD 303 Ethics in Human Resource Development (4)

Introduces the forces that shape ethical behavior in the workplace; ethical considerations in transactions with employees, supervisors and peers; ethical responsibility in the marketplace and society; and how to solve ethical problems.

Prerequisite: RHT 160 or equivalent.

### HRD 306 Introduction to Human Resource Development (4)

Introduces strategic assumptions affecting individual and organizational development priorities. Investigates roles and competencies for HRD practitioners in a variety of workplace settings. Develops an understanding of HRD principles and practices and how they benefit the individual and organization.

**HRD 307 Presentation & Facilitation (4)**

Provides the knowledge and skills to facilitate and deliver professional presentations in various HRD and training settings. Focuses on the communications process, the analysis of the audience, the research and preparation of content, the selection of appropriate support materials, and the delivery or facilitation of professional presentations and meetings. *Satisfies the university general education requirement in the knowledge applications integration area.*

Prerequisite: Completion of the general education requirement for a writing intensive course in general education or the social science knowledge exploration area.

**HRD 309 Technology Applications in HRD (4)**

Examines trends in technology that are transforming HRD practices, including HRIS, portals, knowledge management, service centers, and distance learning. Explores building a technology plan and using technology strategically within the organization.

Prerequisite: HRD 306.

**HRD 310 Instructional Design (4)**

Introduces the application of systematic instructional design principles to the design of instruction. Critically examines the components of an instructional design model and applies its principles to the design of instruction.

Prerequisite: RHT 160 or equivalent.

**HRD 320 Introduction to Labor and Employment Relations (4)**

Studies principles of both private and public sector labor relations. Includes discussions of the rights and responsibilities of all parties and traces labor relations through its origins and basic principles to current volatile issues and developing trends.

**HRD 321 Introduction to Public Sector Labor and Employment Relations (4)**

Studies principles of public sector labor relations. Concentrates on public employment relations in Michigan, and includes discussions of the rights and responsibilities of all parties and traces labor relations through its origins and basic principles to current volatile issues and developing trends.

**HRD 322 The Study of Labor and Work Organizations (4)**

An in-depth study of employment systems and relationships, and employee organizations.

**HRD 323 Negotiation (4)**

This course integrates the intellectual analysis of negotiation theory with the development of negotiation skills. The course focuses on two core approaches to negotiation, the psychological sub-processes of negotiation and the strategies that can be used by the parties to resolve breakdowns in the negotiation process.

**HRD 324 Work and the Law (4)**

A guide to the basic common law rights and responsibilities directly related to employment, as well as policies and procedures under the National Labor Relations Act. Includes a study of the principles used in employment related alternative dispute systems. Identical with SOC 324.

**HRD 326 Collective Bargaining and Dispute Resolution (4)**

In-depth study of the principles and practices of private and public sectors collective bargaining and dispute resolution including strategic planning and preparation, position formulation, negotiation techniques, and agreement/ratification processes. Exploration of employment dispute resolution through observation of formal arbitration presentations, decision-making exercises, and active participation in formal arbitration presentations.

**HRD 328 Employment Regulations and Benefits (4)**

Studies laws, regulations, policies and procedures required by federal and state statute, keeping employment records, writing and maintaining employment handbooks, and the development of "Family Friendly" employment policies. Employment benefit packages are studied in relation to their economic and non-economic costs and compatibility with legal requirements and employee expectations.

**HRD 336 Behavioral Problems in Employment (4)**

Examination of a variety of problem behaviors in the workplace, including substance abuse, violence and stress, and their causes. Focuses on identifying problem behaviors, developing individual and organizational-level interventions and how to evaluate the success of such programs.

**HRD 351 Fundamentals of Human Interaction (4)**

Introduces key aspects of interpersonal relationships, such as self disclosure, feedback, conflict, trust and nonverbal communication. Examines various theories of healthy relationships and personal maturity. Self-appraisal, role plays, simulations and group interaction are used.

**HRD 362 Assessment in Human Resource Development (4)**

Studies the use of standardized and qualitative assessment instruments and techniques in the process of enhancing the quality, performance and satisfaction of individuals, groups and organizations. Prerequisite: RHT 160 or equivalent and HRD 306.

**HRD 363 Group/Team Development and Leadership (4)**

Studies the use of small group and team-based structures to enhance quality and performance in the workplace. Topics include team development, leadership, group norms and goals, resolving group conflicts, group problem solving and decision making models, and group assessments. Prerequisite: RHT 160 or equivalent and HRD 351.

**HRD 364 Career Development (4)**

Studies of career development theory, practices and resources in the workplace. Topics include development and implementation of career development programs, career materials and resources, trends and placement activities in working with individuals and organizations. Prerequisite: RHT 160 or equivalent.

**HRD 365 Interviewing in the Workplace (4)**

Examines fundamental principles and behaviors influencing workplace interviewing. Featured topics include active listening, questioning techniques, and structuring interviews. Skill practice opportunities are provided for needs assessment, behavioral, counseling, performance, conflict mediation and recruitment/selection interviews. Prerequisite: HRD 306 and HRD 351.

**HRD 367 Cultural Diversity in the Workplace (4)**

Identifies relevant culture-specific issues related to race, gender, ethnicity, socioeconomic status, sexual orientation, disabilities and religion. Examines historical context of culture-specific issues (knowledge). Facilitates awareness of values and their significance in helping relationships (self awareness). Presents an ecological framework for developing effective practices (skills). *Satisfies the university general education requirement in U.S. diversity.* Prerequisite: RHT 160 or equivalent and HRD 351.

**HRD 372 Staffing, Performance Evaluation and Interaction within Organizations (4)**

Examines the strategic placement of HRD within an organization as well as the theories and practices of professional human resource development in the areas of staffing, setting performance standards and evaluating performance.

**HRD 390 Independent Study in HRD (2 or 4)**

Directed reading or research in an HRD topic. May be elected for independent study. Student selects topic, obtains faculty sponsor's permission before registration and writes report. May be taken, with special permission, more than once for 8 credits total. Prerequisite: Permission of a faculty sponsor by application to department.

**HRD 401 Change Process and Organizational Analysis (4)**

Study of structure of HRD services in organizations and the processes of effecting individual and group change. Influence of assigned roles of administrators and workers on attitude and behavior. Theory and research of institutional growth and change. Prerequisite: HRD 306 and HRD 363.

**HRD 402 Program Evaluation (4)**

Provides knowledge and skills to design and conduct program evaluations. Develops skills in basic data collection, data analysis, and reporting of results. Prerequisite: HRD 362.



**HRD 423 Instructional Methods (4)**

Provides knowledge and skills in the development of instructional materials for adults. Explores the application of theories of message design, communication, and learning to the development of instruction.

Prerequisite: HRD 310.

**HRD 440 Strategic Planning (4)**

Development of long-range plans to accomplish the training and development mission. Simulation, group problem solving and preferred future planning used to acquire strategic planning skills.

Prerequisite: Senior standing.

**HRD 467 Workshop (2 or 4)**

Opportunity for industry/agency personnel and students to focus on various programs and practices. Offered as needed to meet needs of agency or industry employers and training directors. May be taken more than once for 8 credits total.

Prerequisite: Course work or experience in the workshop topic.

**HRD 469 Seminar in HRD (4)**

Scope is predefined and based on a broad topic in the HRD field. Students select research areas and contribute their findings to the class. Visiting consultants and the instructor provide direction and content. May be taken more than once for a total of eight credits.

Prerequisite: Course work or experience in the seminar topic.

**HRD 472 Technology-Based Instruction (4)**

Examines concepts, strategies and applications of multimedia and web-based instruction. Explores the design and development of computer-based instruction, popular authoring tools, roles of instructors and learners, and characteristics of effective instructional materials.

Prerequisite: HRD 310, 423.

**HRD 499 Internship in HRD (8)**

A culminating experience where students apply learning in a supervised HRD setting. Students must submit application to the internship coordinator by designated dates on internship application approximately three months prior to the semester in which the internship will be served. May be repeated only with department permission.

Prerequisite: Full admission to major standing; completion of 100 credits (minimum); an overall GPA of 2.50 or better; completion of the following courses with a minimum grade of 2.8 in each: (core) RHT 335, HRD 306, HRD 351, and HRD 367; (major) HRD 303, 307, 309, 310, 363, 364, 372, 401 and 423; permission of internship coordinator by application to department.

# DEPARTMENT OF READING AND LANGUAGE ARTS

485K Pawley Hall

(248) 370-3065  
Fax: (248) 370-4367

**Chairperson:** *Robert M. Schwartz*

**Professors emeriti:** *Jane Bingham, Gloria T. Blatt, Robert J. Christina, George E. Coon*

**Distinguished Professor:** *Ronald L. Cramer*

**Professors:** *John E. McEaney, Robert M. Schwartz, Toni S. Walters*

**Associate professors:** *Richard F. Barron, James F. Ciplewski, Linda M. Pavonetti, Anne E. Porter, B. Joyce Wieneck*

**Assistant professors:** *Ledong Li, Mary K. Lose, Gwendolyn M. McMillon*

As a department within the School of Education and Human Services, the instructional staff of the Reading and Language Arts Department offers courses in reading, language arts, instructional systems technology and children's literature at the undergraduate level for students pursuing a career in teaching. The department offers a master's degree program in reading and language arts, certificate programs in microcomputer applications, post-master's certificate programs, K-12 reading endorsements, a master's degree program combined with the early childhood endorsement and a doctor of philosophy degree in reading.

## 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*.

### **RDG 331 Teaching of Reading (4)**

Basic course in the teaching of reading in the elementary and middle grades. Content includes strategies for teaching comprehension, phonics, emerging literacy, methods of reading instruction, and other pertinent issues. Includes a required field experience.

Prerequisite: Admission to major, FE 210, FE 215, EED 354, EED 420, IST 396.

Corequisite: RDG 333.

### **RDG 332 Literature for Children (4)**

Focuses on the critical evaluation of children's literature, understanding its history, assessing children's needs and developmental levels, and selecting and using quality literature with children.

Prerequisite: RHT 160 or equivalent.

### **RDG 333 Teaching the Language Arts (2 or 4)**

Preparation for teaching language arts in elementary and middle grades. Content includes oral language development, listening, writing, spelling and the reading-writing connection. Includes a required field experience.

Prerequisite: Admission to major, FE 210, FE 215, EED 354, EED 420, IST 396.

Corequisite: RDG 331.

### **RDG 334 Teaching Writing in the Elementary and Secondary School (4)**

Basic course in teaching the writing process. Students participate in writing workshops, discuss instructional issues and methods, and experience writing through personal engagement in the writing process.

**RDG 337      Content Reading in the Elementary School (4)**

Designed for content subject learning in the elementary classroom. The course bridges learning to read and reading to learn practices relevant to the curriculum of the elementary school children.

Prerequisite: RDG 331, RDG 333; admission to elementary education program or permission of instructor.

**RDG 338      Teaching Reading in the Content Areas (4)**

Basic course in reading for secondary teachers. Focuses on the reading process, strategies and materials for teaching reading in English, social studies and other subjects to junior and senior high school students. Not open to elementary education majors.

**RDG 414      Reading Appraisal in the Elementary Classroom (2 or 4)**

Focuses on the assessment of reading. Uses formal and informal assessment instruments. Students learn to use assessment data to develop instructional programs. Specifically involves reading instruction with pupils and involvement with school personnel. Includes a required field experience.

Prerequisite: Admission to Major, FE 210, FE 215, EED 354, EED 420, IST 396, RDG 331, RDG 333, SE 355.

**RDG 490      Independent Study and Research (2 or 4)**

Directed individual reading research. May be repeated for a maximum of 4 credits. Departmental permission required. Students must obtain written faculty agreement to supervise their study before permission is granted.

Prerequisite: RDG 331, RDG 333.

**INSTRUCTIONAL SYSTEMS TECHNOLOGY****IST 396      Educational Uses of Microcomputers and Related Technologies (3 or 4)**

Basic microcomputer literacy course. Focuses on educational applications. Prepares students to use microcomputers and related technologies for career and personal goals.

Prerequisite: Admission to Major, FE 210, FE 215.

**IST 397      Integrating Technology in Secondary Curricula (4)**

A general personal computer course designed for secondary education students. Students will become proficient users of the World Wide Web and software application tools designed to integrate technology into secondary curricula.

**IST 399      Secondary Education - Uses of Microcomputers and Related Technologies (4)**

A general microcomputer literacy course designed with focus on educational applications to enable secondary education students to utilize microcomputers and related technologies for career and personal goals. This course is a requirement of secondary education majors for the computer science minor.

Prerequisite: 12 credits in Computer Science.

**IST 464      Consultation: Technology Applications in Education (4)**

Approaches consultation from an organizational development and change perspective. Students will develop a basic understanding of the consulting process and technology applications.

Prerequisite: IST 396, IST 397, IST 399 and permission of instructor.

**IST 490      Independent Study: Instructional Systems Technology (2 or 4)**

Topics differ depending on student interests. Students pursue a topic independently but with instructor guidance. A written proposal is prepared and must be approved by faculty sponsor.

Prerequisite: IST 396 or IST 397 or IST 399 and permission of instructor.

**IST 499      Final Project in Instructional Systems Technology (4)**

Students, independently or in groups, formulate a project in an area of personal interest with practical application in the secondary classroom. Project proposals require instructor approval. Assistance is available **upon request**. Completed project must be presented at least two weeks before the end of classes in the semester of graduation.

Prerequisite: IST 399.

# DEPARTMENT OF TEACHER DEVELOPMENT AND EDUCATIONAL STUDIES

485B Pawley Hall

(248) 370-2613  
Fax: (248) 370-2639

**Chairperson:** *Dyanne M. Tracy*

**Professors emeriti:** *James W. Hughes, M. Sharon P. Muir*

**Professor:** *Dyanne M. Tracy*

**Associate professors:** *Dawn M. Pickard, Mary T. Stein, Robert A. Wiggins*

**Assistant professors:** *Babette M. Benken, Karen Bolak, Nancy A. Melamed-Brown, Younjoo Kim, Timothy Larrabee, Michael MacDonald, Carolyn O'Mahony*

**Visiting assistant professors:** *Pamela Morehead, Jumanne Sledge*

**Special instructor:** *Mary F. Zeppelin*

**Visiting special instructor:** *Linda Tyson*

**Adjunct professor:** *Asa Hillard*

## General Information

The Department of Teacher Development and Educational Studies offers programs designed to prepare students for careers in elementary and secondary school teaching. Both programs are approved by the National Council for Accreditation of Teacher Education (NCATE) and the Michigan Department of Education.

In conjunction with the Departments of Human Development and Child Studies, and Reading Language Arts, the Department of Teacher Development and Educational Studies offers programs that enable students to earn concurrently a Bachelor of Science degree from Oakland University and recommendation for a Michigan elementary provisional certificate (see *Michigan Teacher Certification*).

The Department offers a fifth-year program that prepares students majoring in selected academic fields in the College of Arts and Sciences for recommendation for a Michigan secondary provisional certificate. Students interested in secondary education programs should consult the College of Arts and Sciences section of the catalog.

Students who already hold a four-year degree from an accredited college or university, may choose to complete the Bachelor of Science degree requirements or bypass these requirements and earn a provisional certification only.

## Requirements for the Bachelor of Science degree with a major in elementary education

**Advising:** 363 Pawley Hall, (248) 370-4182

**Internet:** <http://www.oakland.edu/sehs/organi/depts/cil/eled.html>

**Program update and changes:** <http://www2.oakland.edu/sehs/advising/news.cfm>

## Pre-elementary education

Students who wish to pursue an elementary education major are admitted by the Admissions Office and are given pre-elementary education status. Students who hold a baccalaureate degree in another discipline also apply through the Admissions Office.

Students seeking a second undergraduate degree must meet the undergraduate degree program requirements. After admission, students meet with Academic Advisers in the SEHS Advising Office (363 Pawley Hall, 248-370-4182) for course selection.

## Elementary education candidacy

Admission to elementary education candidacy is a prerequisite for some courses in the elementary education major (see course descriptions or *Schedule of Classes*). Students who hold pre-elementary education status must satisfy three criteria for admission to elementary education candidacy:

1. Achieve an Oakland University cumulative grade point average (GPA) of at least 2.80, including a minimum grade of 2.0 in all general education courses, and a minimum grade of 2.5 in all teaching major or minor courses. The GPA must represent at least 24 credits with at least 6 credits taken at Oakland University. Education courses will not be considered.
2. Earn the minimum score established by the department for the Michigan Teacher Test for Certification (MTTC) Program in Basic Skills. Test bulletins are available at the SEHS Advising Office or online at [www.mttc.nesinc.com](http://www.mttc.nesinc.com).
3. Complete the Oakland University writing requirement with a minimum grade of 3.0 in RHT 160.

To obtain candidacy in elementary education, students must present a photocopy of the MTTC Basic Skills score sheet to the SEHS Advising Office. Students retain candidacy status so long as the GPA needed for admission to the major is maintained. Students who lose candidacy are reassigned to pre-elementary education status.

## Admission to the major

Students who have elementary education candidacy status must complete EED 310 before applying for the major or professional program.

Admission is selective; meeting the minimum requirements does not guarantee admission to the major.

Minimum criteria for admission to the major are:

1. Candidacy in elementary education.
2. Completion of the Knowledge Foundation Area and 12 credits of the Knowledge Exploration Area (STA 225 must be completed) with a 2.0 minimum grade in each course. Forty credits of general education requirements must be completed with a 2.0 minimum grade in each course by the end of second semester in the major.
3. A minimum of 70 documented clock hours' experience working with children in non-custodial activities, 50 hours within the last three years and 20 hours during the calendar year prior to application. Field experience in EED 310 does not meet this requirement. Examples of activities and documentation forms are available on the website ([www.oakland.edu/sehs](http://www.oakland.edu/sehs)).
4. Minimum grade of 3.0 in EED 310. (Previously enrolled OU students must take EED 310 at OU.)

5. Achieve an Oakland University cumulative grade point average (GPA) of at least 2.80.
6. Submission of a completed application to the SEHS Advising Office.

Qualitative criteria may be required as well. Preference may be given to students who have completed a majority of their credits at Oakland University. The program seeks students who are committed to teaching in a multicultural school or district. Under-represented students are especially encouraged to apply.

## Advising

The SEHS Advising Office is located in 363 Pawley Hall (248-370-4182). All first year and transfer students are required to attend an orientation to plan their first semester courses. During the first semester at Oakland, students should schedule an advising appointment to review the program plan and degree requirements. In subsequent semesters, students should schedule advising appointments far in advance of early registration time so that the staff may adequately serve their needs. The adviser's role is to audit, assist and advise. Ultimately the student is responsible for meeting all degree and graduation requirements.

## Program requirements

Oakland University is proud of its strong roots in the liberal arts tradition and the Elementary Education Program reflects that focus. The program is designed to provide a strong general education background paired with an exemplary education major.

Admission to the major is required before beginning the professional sequence. Elementary education students plan their course work with an adviser in the SEHS Advising Office. To earn the BS degree, they must:

1. Complete approximately 140 credits (generally over five years). At least 32 credits, including the last eight, must be taken at Oakland University and at least 32 credits must be at the 300-level or above. Education credits may not be older than six years upon completion of the program. Courses transferred from NCATE-accredited colleges may be approved.
2. Meet university general education requirements.
3. Complete one teaching major or two teaching minors (described below) with a minimum grade of 2.5 in each course.
4. Complete pre-professional and professional course work with a minimum grade of 2.8 in each course unless otherwise noted and a minimum grade of 2.0 in EED 455 (2.8 required for teaching certification). Pre-professional courses: MTE 210 (2.0), EED 316, EED 310 (3.0), SCS 105. Professional courses: EED 354, EED 420, FE 210, FE 215, IST 396, MTD 201, SE 355, RDG 331, RDG 333, EED 302, EED 305, EED 470, and RDG 414.
5. Earn a minimum grade of 2.0 in each general education course and maintain a cumulative 2.80 GPA.
6. Be in compliance with all legal curricular requirements for Michigan certification.

## General education (see page 63)

Some general education courses fulfill major/minor requirements. Students should consult their adviser before selecting courses.

### Teaching majors/minors

In keeping with state requirements, one teaching major or two teaching minors selected from the following are required for certification. A teaching major/minor identifies subjects that a graduate is certified to teach in grades 6-8. Course work is limited to the classes listed and those on the approved list available in the advising office. Students must earn a minimum grade of 2.5 in each teaching major/minor course. Courses transferred from institutions that assign letter grades must have a minimum grade of B- to be accepted. (Oakland university courses taken prior to the fall 2001 semester will be accepted with a 2.0 grade.) This list may change reflecting changes in state approved major and minor programs.

**Language arts teaching minor** (24 credits) — ENG (select from ENG 100, ENG 105, ENG 111, ENG 112, ENG 224, ENG 241, ENG 303, ENG 305, ENG 306, ENG 312), RDG 332; ALS 176; RDG 331, RDG 333 and RDG 414.

**Language arts teaching major** (36 credits) — Meet requirements of the language arts minor plus 12 additional credits selected with at least one course from Writing Component: RDG 334, ENG 215, ENG 380, ENG 383, ENG 386, JRN 200, JRN 312, JRN 405, RHT 320, one course from Oral Language Component: RDG 335, COM 201, COM 202, COM 303, COM 305, COM 307, COM 360, THA 100, THA 105, THA 210, THA 211, THA 330, and one course from the combination of the two or one of the following: RDG 370, ALS 334, ALS 335, ALS 374, ALS 375, ALS 376, RDG 490 or IST 494.

**Mathematics teaching minor** (20 credits) — MTE 210, 211, 410; MTH 141; STA 225. Students who test out of MTH 141 must elect one additional course from approved electives in CSE, MTE, MTH or STA.

**Mathematics teaching major** (30 credits) — Meet requirements of the mathematics minor plus at least 10 credits from approved electives in CSE, MTE, MTH or STA, with no more than 4 credits from CSE.

**Modern languages teaching minor** (24 credits) — All credits must be in one language: FRH, GRM, RUS or SPN; 8 credits must be at the 300-400 level.

**Modern languages teaching major** (36 credits) — Meet requirements of the modern languages minor plus an additional 12 credits at the 300-400 level.

**Integrated science teaching minor** (28 credits) — SCS 105, SCI 100, BIO 104, BIO 300, CHM 104, PHY 101, PHY 104, or PHY 106.

**Integrated science teaching major** (36 credits) — Meet requirements of the integrated science minor plus 4 credits from PHY 104 or PHY 106, 4 credits of electives select from BIO 111, SCS 306, CHM 300, PHY 102 or PHY 120.

**Social studies teaching minor** (24 credits)— HST 114 and 115; ECN 200 and 201; GEO 200, GEO 106, PS 100 plus any additional PS course (select from PS 131, PS 115, PS 314 or PS 329).

**Social studies teaching major** (36 credits) — Meet requirements for the social studies teaching minor plus additional approved credits from those listed above. If additional elective credits are needed, they should be selected from either HST 102 or HST 321 (can not choose HST 321 if PS 115 is chosen).

### Professional program

Upon being admitted to the elementary education program, students are expected to maintain continuous enrollment during the fall and winter semesters in at least one (1) and no more than four (4) professional education courses. Any waiver to this policy must be approved by the Admissions and Standards Committee before the semester for which the waiver is requested. Students must follow the required sequence of courses provided at the time of admission to major.

Prerequisites are required for some professional education courses. See course offerings for prerequisites and corequisites. All General Education courses must be completed prior to the beginning the third semester of the professional program.

Retention in the program is based on student demonstration of the characteristics and conduct of members of the teaching profession. **Students may be removed from the program by the Elementary Teacher Preparation Governance Council upon demonstrating professional incompetence.** Professional incompetence includes, but may not be limited to, deficiencies in any of the following areas:

1. Knowledge of the subject taught;
2. The ability to impart that knowledge;
3. The manner and efficacy of discipline in the K-8 classroom and Oakland University campus;
4. Rapport and communication with students in the K-8 classroom, and Oakland University Campus as well as parents, faculty, administrators and staff;
5. Physical and mental abilities to perform the functions of a teacher.

Professional incompetence will be grounds for not recommending students for certification.

**Field placements:** Participation in field placements is required during EED 310 and each semester during which students enroll in a professional education class. The department arranges placements that ensure a variety of experiences, including two in urban school districts: Detroit and Pontiac.

**Internship:** EED 455 must be taken in the final semester of the degree program. **Application for the internship, EED 455, must be made one full academic year in advance of the intended enrollment.** Students must check the web page for the date of the required orientation meeting (early each semester) at which application is made. Admission criteria for the internship are: a) satisfactory grade point average and minimum required grades; b) completion of all professional education course work and field placements; and c) completion of all required course work for the teaching major and/or minors; and d) students placed in k-5 classroom must have passed the MTTC (Michigan Test for Teacher Certification) Elementary Education test (83); students placed in middle school must have passed the MTTC Elementary Education test (83) and the MTTC Endorsement tests for their major and/or minors, thus qualifying for two endorsement areas.

**EED 455 may not be repeated.**

Students must obtain an approved petition from the Admissions and Standards Committee to enroll in more than 12 credits during the internship semester. A minimum grade of 2.0 in EED 455 is required for graduation, a minimum grade of 2.8 for recommendation for certification. Students who do not earn the minimum grade for certification can earn a B.S. without certification.

## Michigan teacher certification

To be recommended for a provisional elementary certificate, elementary education majors must successfully complete requirements for the B.S., complete the required courses in either one major, or two minor concentration areas, earn a minimum grade of 2.8 in EED 455, and successfully pass the elementary education MTTC #83 exam. To be recommended for content area endorsements to the elementary education certificate, students must also successfully pass the subject area tests required by the state. Oakland University requires that the candidate additionally document successful completion of one subject area MTTC test in order to be recommended from this university for certification. Applicants should be aware that a conviction for a felony or a misdemeanor involving moral turpitude of a minor may constitute grounds for denial of a certificate by the State of Michigan.

Successful completion of our program and internship does not guarantee certification by the State of Michigan.



Applicants should be aware that a conviction for a felony or misdemeanor may constitute grounds for denial of a certificate by the State of Michigan. (See complete policy on the School and Field Services web site.)

**Teaching Certification for Elementary Education:** The Michigan Elementary Provisional Certificate is valid for teaching all subjects in grades K-5, all subjects in self-contained classrooms for grades 6-8 in which a majority of the instruction is provided by one teacher, and in teaching majors and minors in departmentalized programs for grades 6-8.

## Course Offerings

For FE and SE course descriptions, see the Department of Human Development and Child Studies; for RDG and IST courses, see the Department of Reading and Language Arts.

The department offers 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*.

### ELEMENTARY EDUCATION

#### EED 300      **Dynamics of Education K-12 (3)**

Exposes students to a beginning understanding of various social and philosophical issues of concern to classroom teachers. Examines through team research projects, individual assignments, lectures and extensive written assignments on relevant topics and issues related to elementary education. Prerequisite: Admission to post-baccalaureate elementary certification program.

#### EED 302      **Teaching Mathematics at the Elementary-Middle Levels (3 or 4)**

Assists prospective teachers in developing sound pedagogical strategies and instructional techniques for teaching mathematics in the elementary and middle school. Includes a required field experience. Prerequisite: Admission to major, EED 354, EED 420; FE 210, FE 215; IST 396; MTE 210. Prerequisite or Corequisite: SCS 105, SE 355.

#### EED 303      **Teaching Mathematics in the Middle School (4)**

Assists prospective and practicing teachers in developing sound pedagogical strategies and instructional techniques for teaching mathematics in the middle school. Crosslisted with SED 429 and ES 530. Prerequisite: EED 302 or SED 428.

#### EED 304      **Health Education in the Elementary-Middle Level Curriculum (1 or 2)**

Provides methods and techniques for incorporating health education into the regular curriculum at the elementary and middle levels in order to provide students with practical life skills necessary to develop and maintain total health and wellness. Includes study of research related to good health; including fitness, nutrition, disease control, and social-emotional factors that contribute to a healthy lifestyle. Prerequisite: Elementary education candidacy.

#### EED 305      **Teaching Science at the Elementary-Middle Levels (3 or 4)**

Develops philosophies, rationale and methods for teaching elementary and middle school science. Explores knowledge and skills for planning instruction, using instructional models, integrating the curriculum, using current instructional materials and evaluating outcomes. Includes a required field experience and additional science teaching experience. Prerequisite: Admission to major, EED 354, EED 420; FE 210, FE 215; IST 396; MTE 210; SCS 105. Prerequisite or Corequisite: RDG 331 and RDG 333.

#### EED 310      **Public Education for the Future (4)**

Exposes prospective elementary education majors to an overview of practical issues, theoretical foundations and professional standards. This course assists students in determining whether they possess the desire and prerequisite skills needed for pursuing teaching as a career, including interpersonal, and intrapersonal communication skills such as reading, writing, speaking and listening. Includes required field experience. Prerequisite: Elementary education candidacy.

**EED 316 Educating Children in Art (2, 3 or 4)**

Provides students with an understanding of discipline-based art education, a knowledge of children's artistic development, and a commitment to and skills for educating children about the visual arts.

**EED 325 Learning Theory, Cognitive and Affective Growth and Development (3)**

An overview of learning theories associated with behavioral, developmental and cognitive schools of thought. The student will examine the application of these theories as they relate to issues of teaching and learning.

Prerequisite: Admission to post-baccalaureate elementary teacher certification program.

**EED 354 Instructional Design and Assessment (4)**

Prepares prospective teachers to design instruction based on best practices including effective use of formal and informal teacher-created assessment techniques in the process of planning, implementing and evaluating instruction based on standards and benchmarks. Includes a required field experience.

Prerequisite: Admission to major, FE 210, FE 215.

Corequisite: EED 420.

Prerequisite or Corequisite: IST 396.

**EED 420 Managing the Classroom Community of U.S. Diverse Learners (4)**

This course acquaints prospective teachers with the importance of interactive skills associated with U.S. diversity as it influences and enhances the classroom community; provides students with the fundamentals of classroom management; requires substantive written assignments, and field experience that reflects racial, ethnic, gender, and/or socioeconomic diversity. *Satisfies the university general education requirement in U.S. diversity. Satisfies the university general education requirement for writing intensive course in general education or the major, not both.*

Prerequisite: Admission to major; FE 210, FE 215. Completion of the university writing foundation requirement.

Corequisite: EED 354.

Prerequisite or Corequisite: IST 396.

**EED 455 Internship in Elementary Education (10 or 12)**

Provides teaching and other appropriate activities in an area classroom with guidance by a university supervisor and a cooperating teacher. General and specific instructional concerns of interns are explored in five or more concurrent seminars. Completion of a program evaluation survey is required before a grade is reported to the registrar. May not be repeated.

Prerequisite: Completion of all required program course work, passing scores on elementary education MTTC Michigan Test for Teacher Certification) exams. Students who are doing an internship in middle school or junior high must also pass the appropriate MTTC subject matter tests.

**EED 470 Teaching Social Studies at the Elementary-Middle Levels (3 or 4)**

Examines instructional objectives and strategies, curriculum materials and evaluative procedures for social studies education grades K-8. Upon completion of the course, students are able to develop, defend and implement an elementary social studies program. Includes a required field experience.

Prerequisite: Admission to major, EED 354, EED 420; FE 210, FE 215; IST 396.

Prerequisite or Corequisite: RDG 331 or RDG 333.

**EED 481 Gender Socialization in Schools (1 to 4)**

Provides an understanding of the role gender plays in teaching and learning, with emphasis upon the socialization of students in schools. Assists prospective and current teachers, counselors, parents and others in designing programs that reduce gender bias in our educational system. Crosslisted with EST 581. Identical with WS 481.

**EED 489 International Experiences in a Foreign Country (1)**

Through directed study in international settings, students will develop first-hand awareness of cultural diversity. They will explore ways of creating or enriching existing curricular materials with their new found understandings of comparative perspectives at a global level. Crosslisted with SED 489.

**EED 490 Independent Study (1 to 4)**

Pursues directed individual reading and research. May include a field placement as well as development of specific teaching materials. May be repeated for a total of 4 credits.

Prerequisite: Permission of department (present written consent by faculty who will supervise study).

## SCIENCE STUDIES

### SCS 105      **Science for the Elementary Teacher (3 or 4)**

Develops science concepts and processes based on recent elementary school curricula in the fields of earth, physical and chemical science. For elementary education majors only; includes laboratory experiences.

Prerequisite: Elementary education candidacy.

### SCS 306      **Environmental/Outdoor Education for Elementary/Middle School Levels (4)**

Methods, materials and sites for teaching science-related topics in an environmental/outdoor context. Topics may include terrestrial and aquatic ecology, water quality studies, bringing the outdoors indoors, and program planning. Field trips are included. With laboratory. Crosslisting with CIL 506.

Prerequisite: SCS 105 or permission of instructor.

### SCS 490      **Independent Problems in Science Education (1 to 4)**

Individual work in science for educators. Credits may be applied to a major or minor in science for teachers. May be repeated for a total of 4 credits.

Prerequisite: Permission of instructor.

## Secondary Education (OU STEP)

**Advising:** 363 Pawley Hall, (248) 370-4182

**Internet:** [http://www.oakland.edu/sehs/organi/depts/cil/ou\\_step.html](http://www.oakland.edu/sehs/organi/depts/cil/ou_step.html)

### Program description

The School of Education and Human Services (SEHS) and the College of Arts and Sciences (CAS) offer a fifth-year secondary teacher education program (Oakland University STEP) leading to recommendation for Michigan secondary provisional teacher certification. This certification is valid for teaching content area majors and minors in grades 7-12, except music, which is valid for grades K-12. The major areas in which Oakland program participants may become certified to teach are: biology, chemistry, English, French, German, history, mathematics, music, physics, Russian and Spanish. Students interested in music education need to contact the Department of Music, Theatre and Dance to learn about content-specific course and sequence requirements.

After completing requirements for graduation in their major and minor teaching areas and preliminary professional education course work, students engage in **AN ACADEMIC** year-long internship in the public schools that includes both courses and field experiences, and fulfills requirements for certification.

Prospective applicants considering education beyond teacher certification should note that 8 credits of OU STEP professional coursework can be applied directly to an M. Ed. Program offered by the Department of Teacher Development and Educational Studies. The conditions under which this is applicable, and additional information about the M.Ed. program, can be obtained by contacting the SEHS advising office.

### Program requirements

Both Oakland undergraduates, and students who have completed undergraduate degrees from Oakland or other universities (second undergraduate degree candidates) may become eligible to enter OU STEP. Both groups must fulfill all Oakland requirements for a baccalaureate degree in an approved major (listed above) prior to beginning their internship year. In addition, they must complete a teaching minor in one of the following areas: biology, chemistry, dance, economics, English, history, mathematics, modern languages, physics, political science or sociology. For details on specific major and minor course requirements, consult the applicable College of Arts and Sciences departmental listings in this catalog.

The program also requires 36 credits of professional education coursework. Program coursework includes courses which are taken prior to the start of the internship year, and which may be taken while students are completing their other degree requirements.

Courses to be taken prior to the internship year:

SED 300	Introduction to Secondary Education (includes a 50 hour field assignment in the major in addition to course time. Must be completed no less than 1 semester before application to STEP).	4
FE 345	Educational Psychology for Secondary Teachers (includes a 30 hour field assignment in the minor in addition to course time)	4
RDG 538	Teaching Reading in the Content Areas	4
SED 427 or SED 426 or ENG 398	Methods of Teaching Secondary Students/ Teaching in Your Minor Field: Mathematics Approaches to Teaching Literature and Composition	4

Internship year courses include:

SE 501	Introduction to Student with Special Needs	4
SED 428	Teaching of the Major Field	4
SED 455	Field Component	12

Undergraduates who will be receiving their degrees from Oakland may choose to graduate either before or after their internship year. Undergraduates who receive financial aid, particularly, will want to weigh the costs and benefits of graduation options. Second undergraduate degree candidates completing majors and or minors may be required to complete additional coursework at Oakland and to satisfy residency requirements. Students should consult with the CAS advisers in their content areas to plan degree completion.

## Program sequence

Undergraduates and second undergraduate degree candidates will typically take the education courses in the following sequence:

Junior year, fall or winter semester	SED 300
Senior year, winter semester	FE 345; SED 427, SED 426, or ENG 398 (dependent upon your minor area of concentration); and RDG 538
Internship (fall and winter semesters)	SED 428-fall, SE 501-fall, SED 455-fall and winter

NOTE: SED 300 must be completed at least one semester before application for admission. Students must document passing all areas of the MTTC basic skills test as a part of the admission process.

Students must pass a required competency exam in the area of technology prior to admittance, or will be required to take a technology course (IST 397) to achieve these competencies.

All major and minor coursework, all professional coursework except SED 455, SED 428 and SE 501, and passing scores on the MTTC (Michigan Test for Teacher Certification) subject area tests for teaching major and teaching minor must be satisfactorily completed before the internship begins.

## Field experiences

SED 300; FE 345 taken with SED 427, SED 426 or ENG 398; and SED 455 require field experiences in the public schools, which must be arranged through the SEHS coordinator of field placement services (248-370-3060). Prior or current full- or part-time teaching will

not satisfy this requirement. SED 300 requires 50 hours of field experience to be completed during the semester in which a student is enrolled. FE 345 and SED 427, SED 426 or ENG 398, requires 30 hours of field experience to be completed during the semester in which a student is enrolled. Sustained experience in diverse settings is required. Students will have experiences in classrooms of their major and minor areas of certification. SED 455 requires daily attendance in the field during the entire internship year, including half day participation at school for August through December, and full day participation at school for January through April.

## Applicant eligibility

Eligibility to apply to the OU STEP requires:

1. Completion of SED 300 with a minimum grade of 3.0. *This course must be taken at least one semester prior to the semester of application to the program. Student must have documented successful completion of the 50 hour field requirement.*
2. Minimum GPAs of 3.00 in both liberal arts major and minor.
3. A minimum overall GPA of 2.80.
4. A minimum grade of 3.0 in Rhetoric 160 (or an equivalent course as determined by the CAS major adviser).
5. Passing scores on each of the three Basic Skills Test components of the Michigan Test for Teacher Certification (MTTC).

## Program admission

The process of admission is designed to identify and to select a number of well-qualified applicants who demonstrate high potential for success in the teaching profession. This number is determined by the capacity of the university to provide quality teacher preparation within its resources. Currently, a maximum of 60 applicants will be accepted per year with consideration given to an equitable distribution across major subject areas.

Factors considered in the applicant selection process include GPAs, written responses to a set of application questions, field evaluations, and letters of recommendation. Additional information or an interview may be requested to provide a more complete application profile. Second undergraduate degree applicants should note that admission to the OU STEP and to the university involve separate processes and should contact the undergraduate admissions office for information about admission to Oakland.

## Internship and certification

To progress into the internship year, students admitted to the OU STEP must maintain a minimum GPA of 3.00 in their education coursework and in their major and minor coursework. In addition, no single education course grade may be below 2.8 and no major or minor course below 2.0. The program status of a student whose grades or GPA fall below these levels will be placed on hold until deficiencies are remedied.

Students must pass the MTTC subject area test for each major and minor in which they plan to be certified. The state requires one major and one minor for certification. Successful completion of both of these tests must be documented by August 15, prior to the beginning of the internship.

In addition, students must receive a minimum grade of 2.8 in SED 455 to be eligible for recommendation by Oakland University for Teacher certification.

Successful completion of the STEP program and internship does not guarantee certification by the State of Michigan. Applicants should be aware that a conviction for a felony or a misdemeanor may constitute grounds for denial of a teaching certificate by the State of Michigan. (See complete policy on the School and Field Services web site.)

## Application deadline

Applications to the OU STEP are considered once per year. The deadline is October 1 of the year preceding the intended internship year. *Applications received after that date, or incomplete applications, will not be considered.* Application packets are available on the secondary education web site.

## 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*.

Descriptions of courses designated FE and SE appear under the Department of Human Development and Child Studies. RDG courses appear under the Department of Reading and Language Arts. Courses above the 400 level are described in the graduate catalog.

### **SED 300 Introduction to Secondary Education (4)**

Introduces secondary teaching as a profession and career, exploring topics and issues in secondary education. Field requirement of 50 clock hours of observation and experience in local secondary classrooms during the semester in addition to course meeting time.

### **SED 426 Teaching in Your Minor Field: Mathematics (4)**

Emphasizes the development of mathematics teaching strategies and human interaction techniques unique to secondary students. Topics include: discipline, motivation, instructional technology, skill assessment, evaluation, writing and reading across the curriculum, and affective learning. **Those with math as a minor will take SED 426. Those with English as a minor will take ENG 398, and all other minors will take SED 427.**

Prerequisite: Admission to secondary education. Minor field- mathematics only.

### **SED 427 Methods of Teaching Secondary Students (4)**

Emphasizes the development of teaching strategies and human interaction techniques unique to secondary students. Topics include: discipline, motivation, instructional technology, skill assessment, evaluation, writing and reading across the curriculum, and affective learning.

Prerequisite: Admission to secondary education. Minor field- must not be math or English.

### **SED 428 Teaching of the Major Field (4)**

Develops specific knowledge, competencies and skills required for effective teaching in the student's major field.

Prerequisite: Admission to secondary education and internship placement.

### **SED 429 Teaching Mathematics in the Middle School (1 to 4)**

Assists prospective teachers in developing sound pedagogical strategies and instructional techniques for teaching mathematics in the middle school. Crosslisted with EED 303 and EST 530.

Prerequisite: SED 428.

### **SED 455 Internship in Secondary Education (12)**

Provides an academic year internship in an assigned school district under the guidance of a clinical instructor and university instructor. Enrollment for a total of 12 credits is required for completion of the internship.

Prerequisite: Admission to the internship.

### **SED 489 International Experiences in a Foreign Country (1)**

Through directed study in international settings, students will develop first-hand awareness of cultural diversity. They will explore ways of creating or enriching existing curricular materials with their new found understandings of comparative perspectives at a global level. Crosslisted with EED 489.

### **SED 490 Independent Study in Secondary Education (1 to 4)**

Pursues directed individual reading, research and fieldwork in secondary education. May be repeated for a total of 4 credits.

Prerequisite: Permission of department (or written consent by faculty who will supervise study).

# SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

248 DODGE HALL

(248) 370-2212  
Fax: (248) 370-4261

**Dean:** *Pieter A. Frick*

**Office of the Dean:** *Bhushan L. Bhatt, associate dean; James L. Hargett, assistant to the dean; Patrick Bennett, academic adviser/program coordinator; Carmen Etienne, academic adviser; Estella Nicholson, interim engineering cooperative education coordinator*

## Advisory Board

The Advisory Board for the School of Engineering and Computer Science is composed of leaders in industry. They assist the school in developing educational and research programs to meet the rapidly expanding requirements in the technical world. The board is available as a body or individually for consultation on such matters as curriculum, research, facilities, equipment requirements, special subjects and long-range planning. Board members are:

*Ron A. May, Chairperson, Advisory Board; Senior Vice President, Energy Distribution, DTE Energy*

*William G. Agnew, Ph.D., Retired Director, General Motors Research Labs*

*Hadi A. Akeel, Ph.D., Senior Vice President and Chief Engineer (retired), FANUC Robotics Corporation*

*Tom Anderson, Director, Automation Alley Technology Center*

*Jerry R. Blevins, Technical Director, Eaton Corporation*

*Samuel L. Cole, III, Manager, Electrical Engineering, Ford Motor Company*

*Juan De La Riva, Senior Vice President, Corporate Development & Strategy, Engineering and Procurement, Arvin Meritor, Inc.*

*Herbert H. Dobbs, Ph.D., Consultant, Rochester, Michigan*

*John Felice, Vice President, Advanced Manufacturing Engineering, DaimlerChrysler Corp.*

*Grant R. Gerhart, Ph.D., Senior Research Scientist, U.S. Army Tank-Automotive, RDE Center (TARDEC)*

*Philip M. Headley, Chief Engineer, Brake Systems, N.A., Continental Teves*

*Sidney D. Jeffe, Retired, Chrysler Corporation*

*Robert T. Lentz, Ph.D., (retired) Director, Advanced Programs, General Dynamics Land Systems*

*Joseph D. Long, Chief Engineer, Door Systems, Delphi Interior Systems*

*William Mattingly, Vice President, Electrical/Electronics Engineering Core, DaimlerChrysler*

*William T. Mihalic, Consultant*

*Yogen N. Rahangdale, Group Vice President, Chief Technical Officer, American Axle & Manufacturing*

*Gary W. Rogers, President and CEO, FEV Engine Technology, Inc.*

*Gerhard Schmidt, Ph.D., Vice President, Research, Ford Motor Company*

*Stephan Sharf, President, SICA*

*Jeffery Van Dorn, Director Engineering Services (Retired), Compuware Corporation*

## Mission

The overall mission of the School of Engineering and Computer Science is threefold:

- to provide high-quality undergraduate and graduate programs of instruction in engineering and computer science to prepare graduates for careers in the coming decades,
- to advance knowledge through basic and applied research in relevant branches of engineering and computer science, and
- to provide service to both the engineering profession and public of the State of Michigan.

In carrying out its mission the School will address the needs of the automotive and related industries in southeast Michigan for the:

- education of engineers and computer scientists,
- development of research programs and
- fulfillment of the demands for professional service.

## General Information

### Accreditation

The undergraduate programs in computer, electrical, mechanical, and systems engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). The computer science program is accredited by the Computing Accreditation Commission of the Computing Sciences Accreditation Board (CSAB).

### Undergraduate programs

The School of Engineering and Computer Science offers instruction leading to the degrees of Bachelor of Science in Engineering, with majors in computer, electrical, mechanical and systems engineering, and Bachelor of Science, with a major in computer science, and information technology. In addition, programs leading to the Bachelor of Science degree in engineering chemistry and engineering physics are offered jointly with the College of Arts and Sciences.

Through its engineering programs, the School of Engineering and Computer Science prepares students for careers in an industrial-based society. Recognizing that today's engineers must be able to solve complex, highly focused problems, as well as those transcending narrow fields of specialization, the School of Engineering and Computer Science blends an interdisciplinary core with specialized study in the elected major for each program.

Oakland University engineering graduates are prepared to enter the traditional fields of government, product design, development, manufacturing, sales, service and systems analysis — as well as specialized areas, such as robotics, transportation, pollution control, energy systems, computer engineering, communications, medical electronics and automotive engineering. They are also prepared to pursue graduate study for careers in research and teaching. A growing number of students find their undergraduate engineering education is excellent preparation for careers in business, law and medicine.



The baccalaureate program in computer science provides a solid foundation for a career in that field. Since both the engineering and computer science programs are offered within the school, computer science majors are exposed to the software as well as the hardware aspects of the profession. Thus, students in the computer science program prepare themselves for careers in the traditional fields of systems programming, data processing and systems analysis, as well as in such interdisciplinary fields as artificial intelligence, robotics, computer architecture, computer graphics, pattern recognition and scientific computation.

The baccalaureate program in information technology is focused on the applied aspects of software technology. The program provides sufficient technical depth and a comprehensive understanding of information technology in the context of problem solving relevant to both engineering and service industries.

The School of Engineering and Computer Science also offers minors in computer science and in computing for non-majors.

## **Professional societies**

The school has a number of professional societies such as the Association of Computing Machinery (ACM), Association of Unmanned Vehicle Systems (AUVS), American Society of Mechanical Engineers (ASME), Institute of Electrical and Electronics Engineers (IEEE), Society of Automotive Engineers (SAE), Society of Manufacturing Engineers (SME), Society of Women Engineers (SWE), National Society of Black Engineers (NSBE), National Society of Professional Engineers (NSPE), Theta Tau fraternity and honor societies Eta Kappa Nu and Tau Beta Pi. Students are encouraged to become active members of one or more of these organizations.

## **Graduate programs**

The School of Engineering and Computer Science offers programs leading to the Master of Science degree in computer science and engineering, electrical and computer engineering, embedded systems, information systems engineering, mechanical engineering, software engineering, systems engineering, and the Doctor of Philosophy degrees in mechanical engineering and systems engineering. The latter involves a blending of various disciplines. The school also offers a Master of Science degree in engineering management in cooperation with the School of Business Administration.

For more information, see the *Oakland University Graduate Catalog*.

## **Centers/Institutes**

### **Center for Robotics and Advanced Automation (CRAA)**

The School of Engineering and Computer Science has a Center for Robotics and Advanced Automation. The main goals of the center are to contribute to the demand for high technology and industrial productivity in the United States.

### **Fastening and Joining Research Institute (FAJRI)**

Fastening and joining significantly affects the safety, quality and reliability of many mechanical and structural systems, machinery and equipment. The FAJRI is the only known academic facility of its kind in the world dedicated solely to the research and development of fastening and joining of materials in industries such as automotive, aerospace and nuclear. The research programs at FAJRI benefit both the commercial and defense sectors of the economy while improving the safety of the public.

## Product Development and Manufacturing Center (PDMC)

Global competition in manufacturing mandates continual improvement in technology, business processes and employee capabilities. The manufacturing enterprise must also consider interdependencies between these three factors when affecting change. In recognition of this dynamic, the Product Development and Manufacturing Center at Oakland University focuses on improving the competitiveness of the automotive industry and its suppliers through application of new and existing technology, modified business practices and new educational and training paradigms.

## Admission

### High school preparation

Entering freshmen planning to major in engineering, and computer science should have taken at least four years of high school mathematics, including trigonometry. A solid background in English composition is essential for all majors. Additional preparation should include course work in chemistry and physics. Drafting, machine shop practice, computer programming and electronics shop courses are useful, but are not required for admission. Freshmen planning to enter program in information technology should have at least three years of high school mathematics with some preparation in science. Normally, a 3.00 (B) grade point average is required for admission to programs in the School of Engineering and Computer Science.

### Transfer policy

The programs offered by the School of Engineering and Computer Science are designed to meet accreditation criteria, as well as to reflect the Oakland University philosophy of education. The programs are more than an assemblage of courses; they are designed to blend theory and experiment, and to integrate fundamental mathematical and scientific background into advanced analysis and design work.

To ensure the integrity of its programs, the School of Engineering and Computer Science has adopted the following transfer policy: Records of students transferring to Oakland University from other academic institutions are evaluated and transfer credit is granted as appropriate. Once matriculated at Oakland, students are expected to complete all remaining course work for the degree at Oakland University. Students who plan to take courses at other universities must have prior written consent of the chair of their major department. 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.

Students planning to transfer into one of the engineering programs should present the following: four semester courses in analytic geometry and calculus, including linear algebra and differential equations; two semester courses in introductory college physics using calculus; and one or two semester courses in chemistry. Other credits in mathematics, science or engineering will be evaluated with reference to engineering graduation requirements. Technician course credits generally do not apply to these requirements.

Community college students who plan to transfer into an engineering program are advised to follow the transfer program prescribed by the Michigan Engineering College/Community College Liaison Committee. Brochures describing the program are available from community colleges or the School of Engineering and Computer Science. Students planning to transfer from Macomb Community College (MCC) under the two-plus-two program must meet specific requirements that are available in detail from the Admissions Office at MCC or SECS Advising Office at Oakland University.

Students planning to transfer into the computer science program should complete one year of course work in calculus, one course in linear algebra, one course in discrete mathematics if possible and two semester courses in introductory college physics using calculus. A course in programming in a high-level language is desirable. Whenever possible, further course work in computer science should be planned with an Oakland University adviser to ensure compatibility with university requirements. Students transferring into the information technology program should include a course in calculus, a course in statistics, and a course in science elective. A course in programming in a high level language is also desirable.

Transfer students from non-ABET-accredited foreign institutions must complete a minimum of 20 credits in their major program of study (professional subjects) at Oakland University including the capstone design course. All of the courses presented for transfer from such programs must receive approval of the specific Departmental Undergraduate Affairs Committee, before student receives official transfer credit.

See *Transfer student information* for additional information.

## Internal transfer

Oakland University students wishing to transfer into engineering or computer science programs in the School of Engineering and Computer Science from other majors or from undecided status will be considered upon the completion of the following courses: MTH 154, 155; PHY 151 and 152. Similarly, students wishing to transfer into the information technology program will be considered upon completion of MTH 154 or 122, STA 226, APM 168 and a proper science elective.

A strong performance in all of the courses taken at Oakland University, especially in the above listed courses, is required for internal transfer.

## Academic Advising and Plans of Study

The programs of study for all entering freshmen are focused toward acquiring math, science, writing and programming skills and thus follow a more or less uniform pattern. One of the early courses taken by engineering students is EGR 120, Engineering Graphics and CAD, that introduces students to the special software tools used in engineering.

Upon acquiring major standing (see below), students are assigned to a faculty adviser. It is mandatory for the students to consult their faculty advisers to plan a meaningful program of professional study in their major immediately after major standing has been granted.

In order to further facilitate the student-faculty interaction, one week of each term is designated as "Advising Week." This is normally the week before early registration during the fall and winter semesters. Failure to meet with his/her adviser at least once during each fall and winter semester will result in cancellation of the student's registration for the succeeding semester.

In consultation with the faculty advisers, students should ensure that they satisfy all of the requirements of their programs of study.

The school's academic advising office oversees specific program requirements. Students who have questions about transfer credit, academic standing, major standing, petitions or the details of degree requirements should consult the academic adviser in 159A Dodge Hall. Students of the School of Engineering and Computer Science must complete a Plan of Study form, which is a timetable of courses to be taken for undergraduate credit. They should complete the form as early as possible, but no later than the end of the semester in which they complete 48 credits. Transfer students should submit the form when they enter Oakland University, regardless of the number of credits they have already earned.

Students are responsible for updating their plans regularly, preferably each semester. Although advisers are obligated to help students plan their programs, the responsibility for fulfilling degree requirements remains with students.

## Degree Requirements

### General requirements for the baccalaureate degrees

The following general requirements must be met by students seeking a bachelor's degree in computer engineering, electrical engineering, mechanical engineering, systems engineering, engineering chemistry, engineering physics, computer science and information technology:

1. Complete at least 128 credits for all programs. At least 32 credits must be in courses at the 300 level or above.
2. Complete at least 32 credits at Oakland University. (Refer to the transfer policy of the School of Engineering and Computer Science for further clarification.) The credits taken at Oakland must include the following for students majoring in:

**Computer, electrical, mechanical or systems engineering:** at least 24 credits in engineering core or professional subjects required for the major,

**Engineering chemistry and engineering physics:** at least 16 credits in required engineering courses, and 16 credits in chemistry or physics courses required for the major;

**Computer science:** at least 24 credits in computer science courses required for the major.

**Information Technology:** at least 24 credits in information technology courses required for the major.

3. Take the last 8 credits needed to complete baccalaureate requirements at Oakland University.
4. Fulfill the university general education requirement (see below and *Undergraduate degree requirements*).
5. Be admitted to major standing in the major of the student's choice.
6. Complete the requirements specified for the elected major.
7. Earn a cumulative grade point average of at least 2.00 in courses taken at Oakland University.
8. Complete an Application for Degree at the Office of the Registrar and pay the graduation service fee.

### Writing Foundation, Writing Intensive, and U.S. diversity:

The baccalaureate degree requirements include completion of RHT 160, with a grade of 2.0 or higher to satisfy the university general education requirement in writing as part of the foundations area. Students who believe their skills warrant exemption from RHT 160 may also submit a portfolio. (*please refer to the Oakland University Undergraduate Degree Requirements section of this catalog*). Students must also satisfy requirements for a writing intensive course in general education, a writing intensive course in the major, a U.S. diversity course, and a capstone course (*please refer to the Oakland University Undergraduate Degree Requirements section of this catalog*).

### General education requirements:

The General Education program is comprised of three parts: Foundations, Exploration, and Integration. For details, see page 63 of this catalog.

**Foundations:**

- (a) Writing Requirement as indicated above.
- (b) Formal Reasoning \*

**Exploration:**

- (a) Art
- (b) Foreign Language and Culture
- (c) Global Perspective
- (d) Literature
- (e) Natural Science and Technology\*
- (f) Social Science
- (g) Western Civilization

**Integration:**

- (a) Knowledge Applications\*
- (b) Capstone\*

\*SECS students with majors in engineering, computer science, and information technology satisfy these areas by virtue of their required courses. However, information technology majors must take a course from the natural science and technology knowledge exploration area.

## Engineering Core

All engineering programs in the School of Engineering and Computer Science have a common core program consisting of the following courses :

- EGR 120 Engineering Graphics and CAD (1)
- EGR 141 Problem Solving in Engineering and Computer Science (4)
- EGR 240 Introduction to Electrical and Computer Engineering (4)
- EGR 250 Introduction to Thermal Engineering (4)
- EGR 260 Introduction to Industrial and Systems Engineering (4)
- EGR 280 Design and Analysis of Electromechanical Systems (4)

This core program introduces students to the nuances of the interdisciplinary nature of engineering and lays the foundations for the specialized studies in the students major fields of study. These courses also provide substantial, real world laboratory experiences to the students. It is important that the students successfully complete these courses in order to achieve major standing (see below).

## Major Standing

To enroll in 300- or 400-level courses and to become candidates for the baccalaureate degree, students of the School of Engineering and Computer Science must gain major standing in their selected majors. An application for major standing should be submitted during the semester in which students complete all requirements for major standing.

Students lacking major standing may enroll in 300- or 400-level engineering, computer science and information technology courses only by presenting at registration an approval form signed by either the academic adviser or the chair of the major department. The purpose of this process is to ensure that students can correct and are working to correct outstanding deficiencies preventing admission to major standing. Forms may be obtained in the advising office (159A Dodge Hall).

To gain major standing requires writing foundation and satisfactory completion of course work in mathematics, science and the major, as designated below.

**Engineering :**

Mathematics: MTH 154-155, APM 255. Science: CHM 143; PHY 151, 152. Engineering Core : EGR 120, 141, 240, 250, 260, and 280.

**Computer Science:**

Mathematics: MTH 154-155, 275; APM 263, Science: PHY 151, 152, Major: EGR 141, 240; CSE 230, 280.

**Information Technology:**

Math/Science: MTH 154 or 122, STA 226; APM 163, science elective. Major: CIT 130, 220, 230, 247, 251, 280.

**Engineering physics**

Mathematics: MTH 154-155, APM 255. Science: CHM 143; PHY 151, 152, 158. Major: EGR 120, 141, 240, 250, 260, 280.

**Engineering chemistry**

Mathematics: MTH 154-155, APM 255. Science: CHM 157-158 or 162-163; 147-148. Major: EGR 120, 141, 240, 250, 260, 280.

To complete the requirements for major standing satisfactorily a student must a) have an average of at least 2.00 in each of the mathematics, science or math/science (for IT) and core/major course groupings, b) have no more than two grades below 2.0 in the required courses; c) not have repeated any course more than twice; and d) not have repeated more than three different courses. Courses in which a W (withdrawal) grade is recorded will not be counted.

Major standing may be granted in the semester in which the student is enrolled in the EGR 280 (for engineering majors), CSE 280 (for CS majors) or CIT 280 (for IT majors). Transfer students may satisfy the requirements for major standing by using transfer credits.

**Typical schedule for first two years**

	<b>Fall</b>	<b>Winter</b>
Year 1	MTH 154 CHM 143 EGR 141 EGR 120 Gen. Ed.	MTH 155 PHY 151 EGR 240 Gen. Ed.
Year 2	APM 255 PHY 152 EGR 250 Gen.Ed./CSE 230	MTH 254/APM 263 EGR 260 EGR 280 Gen.Ed./CSE 231

Scheduling for subsequent years depends on students' selected majors, but should be tailored to meet the requirements for admission to major standing promptly. For sample schedules, refer to the department listings in this catalog or to the student handbook of the School of Engineering and Computer Science.

Students who are not prepared to enter the mathematics and science courses without additional preparation in these subject areas must modify their schedules accordingly. Such students may require additional time to complete degree requirements, unless they make up the deficiencies by enrolling during the spring and summer sessions following the freshman year.

## Course load

Students should strike a balance between course load and other commitments. In general, students carrying a full load of 16 credits per semester should not be employed for more than 10 to 20 hours per week. Students who are employed 40 hours per week generally should not carry a course load of more than 4 credits per semester.

The university's maximum course load policy is detailed in the *Academic Policies and Procedures* section (see *Course and credit system*).

## Graduation check

To ensure that students have met all requirements, they must participate in a final program audit during the semester preceding the one in which they expect to graduate. Application should be made in the advising office, 159A Dodge Hall.

## Cooperative education

### General information

Students in the School of Engineering and Computer Science who want to combine relevant work experience with their college education are encouraged to participate in the university's cooperative education program. Co-op employment provides practical training related to a student's field of study and forms an integral part of the educational program. It enables students to relate their academic studies with practical applications, and it gives them early contact with practitioners in their fields.

Beginning in the junior year, co-op students alternate four-month semesters of full-time study with equal periods of paid, full-time employment in business, industry or government. The program coordinator and the employer work together to ensure that the practical training becomes progressively more challenging and carries increasing responsibility as students advance through the curriculum.

### Requirements of the cooperative education program

Students interested in the cooperative education program in engineering, computer science or information technology should apply through the office of the cooperative education coordinator (275 Vandenberg Hall, 370-3250).

To be admitted, students must:

1. Be granted major standing in engineering or computer science (see above), or file an approved plan for achieving major standing, signed by the chair of the major department. In addition, engineering students must have completed the mathematics sequence appropriate to their major.
2. Normally, have a cumulative grade point average of at least 2.80.
3. Have the approval of the academic adviser, the cooperative education coordinator for the school and the employer.

Transfer students must have completed at least one semester of full-time study at Oakland University before acceptance into the program.

To remain in good standing in the cooperative education program, students must:

1. Complete alternate semesters of full-time study and full-time work.

2. Complete at least 12 credits of work appropriate to their elected major during each semester of study, maintaining a cumulative grade point average of at least 2.80.
3. Complete EGR 391 during the semester following each co-op assignment.
4. Submit a satisfactory training report (as part of the requirements for EGR 391) within four weeks of the beginning of the semester following each co-op assignment.
5. Receive a satisfactory employer evaluation for each assignment.

The grade assigned in EGR 391 will give added weight to the employer's evaluation, the student's written training report, a progress interview with the coordinator and the student's participation in regularly scheduled classes.

Students who do not meet the conditions for good standing will be subject to dismissal from the co-op program.

The co-op program is administered by the Department of Placement and Career Services.

## Double Major

To earn two majors in engineering or in engineering and computer science, students must complete all requirements of both programs. Further, in addition to the credit hours needed for one major, the student must complete a minimum of 12 credit hours in pertinent technical courses applicable to the second major.

Students seeking two degrees should consult the university's requirements (see *Additional undergraduate degrees and majors*).

## Minors and Concentrations

Students who wish to add a minor or concentration or otherwise participate in an interdepartmental program must apply for admission and seek assistance in planning a program. Application may be made to the coordinator of the appropriate program committee or department involved.

Students in the School of Engineering and Computer Science might be interested in the following minors or concentrations :

Applied mathematics, applied statistics, biology, chemistry, economics, environmental studies, linguistics, and physics,. For details see *Other Academic Options* in the College of Arts and Sciences portion of the catalog.

Other areas of interest might be: accounting, finance, general business, management information systems, production and operations management, and quantitative methods. For details on these, see *Minors* in the School of Business Administration portion of the catalog.

The School of Engineering and Computer Science offers the following minors:

### International orientation for engineering/computer science students

**Coordinator:** *Bhushan L. Bhatt*

In view of the ever-increasing globalization of industry, students in engineering and computer science need to be aware of their international opportunities and also to develop an intellectual background that enhances their ability to respond to professional challenges in the global environment.

To obtain a minor in international orientation for engineering/computer science students, students must complete the following courses with a grade of at least 2.0 in each course:



Introductory course (4 credits): IS 210, 220, 230, 240, 250, 260; HST 102, 341  
Foreign language consistent with the introductory course (8 credits)  
ECN 200 or 210 (4-6 credits)  
One advanced course (4 credits) from PS 314 or ECN 373  
EGR 496 (4 credits), which requires eight weeks of study/work abroad.

Some of the courses listed above also satisfy general education requirements. This minor is open to the students in the School of Engineering and Computer Science.

**Minors in computer science or computing for non-engineering, computer science or information technology majors. For details see the listing in the Department of Computer Science and Engineering portion of this catalog.**

## Additional Information

### Prerequisite courses

In planning their schedules, students should ensure that they satisfy prerequisite and co-requisite conditions for courses, as listed under “Course Offerings.” Students will have their registrations cancelled if they register for courses for which they do not meet the conditions. Students will be liable for any financial penalties incurred by such cancellation.

### Project and independent study courses

Project and independent study courses numbered 490 and 494 are available to provide enrichment opportunities to qualified students. They are not intended as substitutes for regular course offerings; rather, they allow students to investigate areas of interest outside the scope of regular courses, examine subjects more deeply than can be accommodated in regular courses, or gain educational experiences beyond that of regular course work.

To register for a project or independent study course, students must first submit a plan of work to the faculty member who will supervise the course. The plan must be approved in writing by the faculty member and the chair of the major department before students may register for the course.

Application forms are available in the advising office (159A DHE).

### Petitions

Waivers of specific academic requirements may be initiated by submitting a petition of exception (see *Petition of exception*).

Students seeking a review of their academic standing within the school or students who wish to make a formal complaint should submit a written petition to the chair of their major department or to the associate dean. Petitions will be processed according to established university procedures.

### Academic conduct

Students are expected to abide by the principles of truth and honesty, which are essential to fair grading. Academic misconduct in any form is not permitted.

Students who are found guilty of academic misconduct as determined by the university Academic Conduct Committee, in any course offered by the school, may be subject to penalties, among which are a reduced grade for the assignment, a grade of 0.0 for the entire course, academic probation, or suspension or dismissal from the university.

All assignments must be the independent work of each student, unless the professor of the course gives explicit permission relaxing this requirement.

See the *Academic Conduct Policy* section of the catalog for more detailed information.

## Academic Standing

The performance of students in the School of Engineering and Computer Science will be reviewed at the end of each semester to determine academic progress.

Good academic standing in the school requires a cumulative grade point average of at least 2.00 in: a) courses required for the major; b) cognate courses in mathematics and science; and c) all courses taken at Oakland University. Students whose cumulative grade point averages fall below 2.00 in one or more of the three categories will be placed on provisional status.

While on provisional status, students must have their programs of study approved by the chair of their major department. Students who fail to remove provisional conditions after one semester are generally ineligible to continue their programs. However, provisional status may be continued if students are judged to be making substantial progress toward correcting the deficiency. (For part-time students, 12 consecutive credits of course work will be considered equivalent to one semester.)

Students on provisional status may not serve on committees of the School of Engineering and Computer Science.

Students who become ineligible to continue enrollment in the School of Engineering and Computer Science may transfer to another school or college within the university subject to their requirements.

The above rules were established by the undergraduate curriculum committee of the School of Engineering and Computer Science. Students wishing to appeal a ruling on their academic status must address a written petition to the School's committee on academic standing. Petitions may be submitted to the academic adviser or the associate dean.

## Unsatisfactory performance

Unsatisfactory (U) grades and grades less than 2.0 are considered substandard. A student within the School of Engineering and Computer Science who repeats a course in which a grade below 2.0 has been earned must repeat that course at Oakland University. Courses in which a grade below 2.0 has been earned may not be subsequently passed by competency examination or independent study. See *Repeating courses* for additional information.

## Honors, awards and scholarships

The School of Engineering and Computer Science may in its discretion confer departmental honors on students who have completed a minimum of 62 credits in the School and demonstrated a high level of scholarly accomplishment by achieving a GPA of 3.50 in SECS courses.

Each year the faculty selects graduating seniors to receive four special awards: Exceptional Achievement, Academic Achievement, Professional Development, and Service. Details are described in the SECS undergraduate student handbook.

In addition to scholarships available to all Oakland University students, those following are available specifically to SECS students:\*\*

**Denso Corporation Scholarship:** One scholarship of \$5,000, awarded annually to an underrepresented student, in junior standing, majoring in engineering or computer science. Scholastic achievement and community involvement considered in the selection process.

**DeVlieg Foundation Scholarships:** Awarded annually to both undergraduates and graduate students by the Department of Mechanical Engineering, these scholarships are merit based in amounts ranging from \$1,000 to \$5,000.

**ITT Industries Scholarship:** Four scholarships of \$5,000 each are awarded to underrepresented students majoring in engineering or computer science. Scholastic

achievement and involvement in the university community are considered in the selection of recipients.

**MSPE Scholarship:** A \$1,000 scholarship is awarded annually to a student in the SECS. Application is filled with the Michigan Society of Professional Engineers.

**NHK International Corporation Scholarship:** This endowed scholarship of \$2,000 is awarded to a full-time SECS graduate or undergraduate student whose GPA is a minimum of 3.20 and who has demonstrated professionalism, the ability to collaborate with others and a potential to contribute to the quality of academic and student life.

**Oakland University Engineering Scholarship:** Awarded to entering engineering or computer science students based upon a minimum high school GPA of 3.50 and scores on a standardized test, these scholarships may be renewed for a total of eight semesters to recipients who maintain a 3.00 GPA and continue to major in engineering or computer science.

**SAE Engineering Scholarship:** This \$1,000 scholarship is awarded annually to an entering freshman with high academic credentials and involvement in extra curricular or community activities. Application is filed with the Society of Automotive Engineers.

**Thomas A. Yatooma Memorial Scholarship:** Provided by the SECS Alumni Affiliate, up to four \$1,000 scholarships are awarded annually to engineering or computer science majors.

Applications are available in February from the SECS advising office and the alumni office.

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

168 DODGE HALL

(248) 370-2200

**Chairperson:** *Ishwar K. Sethi*

**Professors emeriti:** *David E. Boddy, Glenn A. Jackson, Thomas G. Windeknecht*

**Professors:** *Subramaniam Ganesan, Richard E. Haskell, Janusz W. Laski, Fatma Mili, Ishwar K. Sethi, Sarma R. Vishnubhotla*

**Associate professors:** *Lunjin Lu, Gautam Singh, Ronald J. Srodawa*

**Assistant professors:** *Djamel Bouchaffra, Debatosh Debnath, Imad Elhadj, Darrin Hanna, Dae-Kyoo Kim, Jia Li*

**Special instructor:** *Jerry E. Marsh*

**Special lecturer:** *Laura Dinsmoor*

**Adjunct associate professors:** *Preston L. Brooks, Gerard Jozwiak*

## Advisory Board

The Computer Science and Engineering Advisory Board assists the department in enhancing its educational and research programs and ensuring their relevance to current and emerging technological needs. Board members are:

*Scott V. Thomsen, Director-Science and Technology, Guardian Industries*

*Mary L. Hepler, Vice President, Professional Services, Compuware Corporation*

*Dilip K. Nigam, President, Analytical Design Service Corporation*

*Lawrence C. Wehner, Director, AES Embedded Solutions, Electronic Data Corporation*

*Keith Ensroth, Senior Director, Internet Systems, Kelly Services*

*Ramasamy Uthurusamy, Ph.D., General Director, Emerging Technologies, General Motors*

*Paul Besl, Ph.D., Virtual Reality Architect, General Motors*

*Uttam Mukhopadhyay, Ph. D., Co-founder & Chairman, Deep View Systems, LLC*

*Jerry L. Chapin, Manager, Strategic Development, Science Applications Int'l Corporation*

*Amjad Hussain, Vice President, Information Technology, Handleman Corporation*

## Mission

The Department of Computer Science and Engineering carries out the mission of the School of Engineering and Computer Science by offering separate undergraduate majors in Computer Engineering, Computer Science and Information Technology. The department also offers master's programs in Computer Science and Engineering, Embedded Systems, Information Systems Engineering and Software Engineering, and a doctoral program in Systems Engineering.

## Major in Computer Engineering

Major technological advances are being made in the computer field at a rapid pace, and it is essential that computer engineering students are not only aware of these advances but prepared to work in this changing environment. Students should gain a strong background in the fundamentals of computer engineering and develop a willingness to accept and thrive on change.

The computer engineering program at Oakland University is designed to provide students with the basic knowledge and skills needed to function effectively in computer-related activities in the years ahead. A balance between theoretical and practical experience and an emphasis on the software and hardware aspects of computers are key elements to the university's computer engineering major.

### Program Educational Objectives

The objectives of the computer engineering program are to produce graduates who:

- are able to design, implement and test a hardware and/or software system or component;
- can adapt and contribute to new technologies and methods and to use these in engineering design;
- are prepared to pursue successfully graduate study in computer engineering or related disciplines;
- are proficient in written and oral communication;
- can function successfully in the automotive and other global industries;
- can serve in a variety of roles such as solving problems with technical and non-technical elements, serving as team members, and leading others; and
- have high standards of professional and ethical responsibility.

To earn the degree of Bachelor of Science in Engineering with a major in computer engineering, students must complete a minimum of 128 credits and satisfy the writing requirements. They must meet the following requirements: (also see *Undergraduate degree requirements*)

	<b>Credits</b>
<b>General education</b>	<b>24</b>
<b>Mathematics and science</b>	
MTH 154-155	Calculus 8
APM 255	Differential Equations and Linear Algebra 4
APM 263	Discrete Mathematics 4
MTH 254	Multivariable Calculus 4
CHM143	Chemical Principles (or CHM 162) 4
PHY 151-152	Introductory Physics <u>8</u>
	<b>32</b>
<b>Engineering core</b>	
EGR 120	Computer Graphics and CAD 1
EGR 141	Computer Problem Solving in Engineering and Computer Science 4
EGR 240	Introduction to Electrical and Computer Engineering 4
EGR 250	Introduction to Thermal Engineering 4
EGR 260	Introduction to Industrial and Systems Engineering 4
EGR 280	Design and Analysis of Electromechanical Systems <u>4</u>
	<b>21</b>

**Professional subjects****Required:**

CSE 230	Object-Oriented Computing I	4
CSE 231	Object-Oriented Computing II	4
CSE 247	Introduction to Computer Networks	4
CSE 378	Computer Hardware Design	4
CSE 464	Computer Organization and Architecture	4
CSE 470	Microprocessor-based System Design	4
CSE 480	Senior Design	4
EE 316	Circuits and Systems	4
EE 327	Electronic Circuits and Devices	4
		36

**Electives —**

**Professional electives: 8 credits chosen from:** 8

Any 300-, 400-, or 500-level engineering or computer science courses, or approved mathematics and science electives (see below)\*

**Free electives:** (may be used to satisfy writing requirement) 7

Total 128

*\*Approved mathematics and science electives:*

*Students who have an explicit interest in broadening their knowledge in a specific area of math or science should select an elective from the following approved course list. For more information about these selections, students are encouraged to visit with an undergraduate advisor before registering for an approved math or science elective.*

APM 332	Applied Matrix Theory
APM 357	Elements of Partial Differential Equations
APM 433	Numerical Methods
APM 434	Applied Numerical Methods: Matrix Methods
APM 463	Graph theory and Combinatorial Mathematics
APM 477	Computer Algebra
BIO 111	Biology
CHM 163	Honors General Chemistry for Engineers II
MOR 242	Introduction to Operations Research
PHY 325	Biological Physics
PHY 326	Medical Physics
PHY 331	Optics
PHY 366	Vibrations and Waves
PHY 371	Foundations of Modern Physics
MTH 275	Linear Algebra
MTH 352	Complex Variables
MTH 361	Geometric Structures
MTH 372	Number Theory with Cryptography
STA 322	Regression Analyses

*or others by approval by petition to the SECS Committee on Academic Standing.*

**Economics requirement**

In addition to the requirements stated above, computer engineering students must fulfill the economics requirement. This may be met by completion of ECN 150, 200, 201 or 210. However, ENC 201 is not part of the general education requirement.

### Performance requirements

In addition to the previously stated requirements, satisfactory completion of the program requires an average grade of at least 2.00 within each group: namely, mathematics and science, core subjects and professional subjects. Within professional subjects, at most two grades below 2.0 are permitted; at most two different courses may be repeated, and a total of three repeat attempts is permitted.

### Sample computer engineering schedule

Students entering the School of Engineering and Computer Science with the required background may follow a schedule such as the one indicated below. However, students will need additional time to complete the program if they do not have the required background upon entrance to the program.

**Freshman year** — fall semester: EGR 120, MTH 154, CHM 143, EGR 141, general education, 17 credits; winter semester: MTH 155, PHY 151, EGR 240, general education, 16 credits.

**Sophomore year** — fall semester: APM 255, PHY 152, EGR 250, CSE 230, 16 credits; winter semester: APM 263, EGR 260, EGR 280, CSE 231, 16 credits.

**Junior year**— fall semester: MTH 254, CSE 247, EE 316, general education, 16 credits; winter semester: EE 326, CSE 378, general education, general education, 16 credits.

**Senior year** — fall semester: general education, CSE 470, professional elective, 4-credit free elective, 16 credits; winter semester: CSE 464, CSE 480, 3-credit free elective, professional elective, 15 credits.

## Major in Computer Science

The program in computer science leading to a Bachelor of Science degree prepares students for professional practice in systems programming, software design and computer applications, or for graduate study in computer science. The program provides a solid foundation based on the organization, processing and display of information. In addition to software related courses students are also exposed to courses in computer hardware design.

### Program Educational Objectives

The objectives of the Computer Science program are to produce graduates who:

- are able to design, implement, verify and test a computer software system;
- can adapt and contribute to new technologies and methods and to use these in the practice of computer science;
- are prepared to pursue successfully graduate study in computer science or related disciplines;
- are proficient in written and oral communication;
- can function successfully in the automotive and other global industries;
- can serve in a variety of roles such as solving problems with technical and non-technical elements, serving as team members, and leading others; and
- have high standards of professional and ethical responsibility.

To earn the Bachelor of Science degree with a major in computer science, students must complete a minimum of 128 credits, satisfy writing requirements (also see *Undergraduate degree requirements*) and meet the following requirements:

		Credits
<b>General education</b>		24
<b>Mathematics and science</b>		
MTH154-155	Calculus	8
MTH275	Linear Algebra	4
APM 263	Discrete Mathematics	4
PHY 151-152	Introductory Physics	8
STA 226	Applied Statistics	4
Approved mathematics or science elective**		<u>4</u>
		32
<b>Computer science core</b>		
EGR 141	Computer Problem Solving in Engineering and Computer Science	4
EGR 240	Introduction to Electrical and Computer Engineering	4
CSE 230	Object-Oriented Computing I	4
CSE 231	Object-Oriented Computing II	4
CSE 280	Sophomore Project	2
CSE 378	Computer Hardware Design	<u>4</u>
		22
<b>Professional subjects</b>		
<b>Required:</b>		
200-level CSE elective (CSE 220, CSE 247, or CSE 251)		4
CSE 337	Software Engineering and Practice	4
CSE 335	Programming Languages	4
CSE 343	Theory of Computation	4
CSE 361	Design and Analysis of Algorithms	4
CSE 402	Professional Practice	2
CSE 345	Database Systems	4
CSE 450	Operating Systems	4
CSE 480	Senior Design	<u>4</u>
		34
<b>Electives —</b>		
<b>Professional electives: 8 credits chosen from:</b>		8
Any 300-, 400-, or 500-level engineering or computer science courses, or approved mathematics and science electives (see below)*		
<b>Free electives:</b> (may be used to satisfy writing requirement)		8
		<u>128</u>
Total		128

\*Approved mathematics and science electives:

Students who have an explicit interest in broadening their knowledge in a specific area of math or science should select an elective from the following approved course list. For more information about these selections, students are encouraged to visit with an undergraduate advisor before registering for an approved math or science elective.

APM 255	Differential Equations and Linear Algebra
APM 332	Applied Matrix Theory
APM 433	Numerical Methods
APM 434	Applied Numerical Methods: Matrix Methods
APM 463	Graph theory and Combinatorial Mathematics
APM 477	Computer Algebra
BIO 111	Biology



CHM 143 *Chemical Principles*  
MOR 242 *Introduction to Operations Research*  
PHY 325 *Biological Physics*  
PHY 326 *Medical Physics*  
PHY 331 *Optics*  
PHY 366 *Vibrations and Waves*  
PHY 371 *Foundations of Modern Physics*  
MTH 352 *Complex Variables*  
MTH 361 *Geometric Structures*  
MTH 372 *Number Theory with Cryptography*  
STA 322 *Regression Analyses*  
*or others by approval by petition to the SECS Committee on Academic Standing.*

### Performance requirements

In addition to previously stated requirements, satisfactory completion of the program requires an average grade of at least 2.00 within each group: namely, mathematics and science, core subjects and professional subjects. Within professional subjects, at most two grades below 2.0 are permitted, at most two different courses may be repeated and a total of three repeat attempts is permitted.

### Sample computer science schedule

Students entering the School of Engineering and Computer Science with the required background may follow a schedule such as the one indicated below. However, students will need additional time to complete the program if they do not have the required background upon entrance to the program.

**Freshman year** — fall semester: MTH 154, EGR 141, two general education, 16 credits; winter semester: MTH 155, PHY 151, EGR 240, general education, 16 credits.

**Sophomore year** — fall semester: APM 263, PHY 152, CSE 230, general education, 16 credits; winter semester: MTH 275, CSE 231, 200-level CSE elective, general education, CSE 280, 18 credits.

**Junior year**— fall semester: STA 226, CSE 335, 361, general education, 16 credits; winter semester: CSE 343, 378, 337, general education or free elective, 16 credits.

**Senior year** — fall semester: CSE 450, 345, professional elective, mathematics or science elective, 16 credits; winter semester: CSE 402, CSE 480, professional elective, free elective, 14 credits.

### Major in Information Technology

The program in information technology (IT) leading to a Bachelor of Science degree prepares students for a professional career in IT. The program provides students with sufficient technical strength and a comprehensive understanding of information technology practice in context to act as problem solvers in various settings. This is achieved by requiring every student to either do an industry internship or participate in an industry-sponsored project, or perform undergraduate research under the supervision of a faculty mentor. The program also includes a strong professional component to develop skills in technical communication, ethics and group work. Finally, every IT major has a choice of an interdisciplinary track of upper division courses (12 credit hours) in an application area of IT.

### Program Educational Objectives

The objectives of the Information Technology program are to produce graduates who:

- are able to design, implement, and manage IT solutions to meet an organization's goals;
- can adapt and contribute to new technologies in support of IT infrastructure;
- are prepared to pursue successfully graduate study in IT related disciplines;
- are proficient in written and oral communication;
- can function successfully in the automotive and other global industries;
- can serve in a variety of roles such as solving problems with technical and non-technical elements, serving as team members, and leading others; and
- have high standards of professional and ethical responsibility.

To earn the Bachelor of Science degree with a major in information technology, students must complete a minimum of 128 credits, satisfy writing requirements (also see *Undergraduate degree requirements*) and meet the following requirements:

	<b>Credits</b>
<b>General education</b>	24
<b>Mathematics and science</b>	
MTH 154 or MTH 122 Calculus	4
STA 226 Statistics	4
APM 163 Mathematics for Information Technology	4
Approved science elective*	4
	16
<b>Information Technology core</b>	
CIT 130 Introduction to Programming with VB	4
CIT 220 Spreadsheet Programming and Reporting	4
CIT 230 Object-Oriented Computing I	4
CIT 247 Introduction to Computer Networks	4
CIT 251 Web Programming	4
	20
<b>Professional subjects</b>	
<b>Required:</b>	
CIT 222 Interactive Multimedia Technology	4
CIT 248 Computer Systems	4
CIT 345 Database Design and Implementation	4
CIT 350 Human Computer Interaction	4
CIT 352 System Analysis	4
CIT 280 Sophomore Project	2
CIT 337 Software Engineering and Practice	4
CIT 402 Professional Practice	2
CIT 480 Senior Capstone Project	4
	32
<b>Electives — 20 credits chosen from:</b>	
8 credits of courses from one of the following tracks:	
• System administration Track (CIT 346, CSE 447)	
• Bioinformatics Track (BIO 341, CSE 461)	8
4 credits of Internship (CIT 496) or Industrial Project (CIT 497) or Undergraduate Research (CIT 498)	4

8 credits of course work in management and communications from the following:

- |  |    |
|--|----|
| • IT Project Management (CIT/MIS 450)        | 4  |
| • Group Dynamics and Communication (COM 202) | 4  |
| • Communication in Organizations (COM 304)   | 4  |
|  | 20 |

<b>Free electives</b> (may be used to satisfy writing requirements)	<u>16</u>
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Total	128
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*\*Approved science and mathematics electives for information technology majors are: biology courses numbered 111, 113 and higher except BIO 300; CHM 157 and higher, except CHM 300 and 497; physics courses numbered 151 and higher; environmental health courses ENV 308 and 373. Special topics and independent study courses require prior approval.*

### Performance requirements

In addition to previously stated requirements, satisfactory completion of the program requires an average grade of at least 2.00 within each group: namely, mathematics and science, core subjects and professional subjects. Within professional subjects, at most two grades below 2.0 are permitted, at most two different courses may be repeated and a total of three repeat attempts is permitted.

### Sample information technology schedule

Students entering the School of Engineering and Computer Science with the required background may follow a schedule such as the one indicated below. However, students will need additional time to complete the program if they do not have the required background upon entrance to the program.

**Freshman year** — fall semester: MTH 122 or 154, CIT 130, general education, 16 credits; winter semester: APM 163, CIT 220, science elective, general education, 16 credits.

**Sophomore year** — fall semester: STA 226, CIT 230, CIT 220, general education, 16 credits; winter semester: CIT 247, CIT 251, CIT 280, general education, 14 credits.

**Junior year** — fall semester: CIT 248, CIT 345, IT track elective 1, general education, 16 credits; winter semester: CIT 350, CIT 352/MIS 316, IT track elective 2, free elective, 16 credits.

**Senior year** — fall semester: CIT 402, IT track elective 3, COM 202/304, free elective, 18 credits; winter semester: CIT 480, CIT/MIS 450, CIT 337, free elective, 16 credits.

## **Minors in computer science or computing for nonengineering majors**

The School of Engineering and Computer Science offers two minors, one in computer science and the other in computing, to students with majors other than engineering or computer science.

The minor in computer science is suitable for students with a major in mathematics, physics, chemistry or biology, who may wish to emphasize numerical, scientific and engineering aspects of computing. Students must earn a minimum of 20 credits, including the following courses: EGR 141, EGR 240, CSE 230, any two CSE courses numbered 200 or above.

At least 12 of these credits must be taken at Oakland University. A grade of 2.0 is required in each course for this minor.

The minor in computing is suitable for students with a major in liberal arts or business, who may wish to emphasize non-numerical and symbolic data processing aspects of computing. Students must earn a minimum of 20 credits as follows: CSE 120, CSE 130 and three courses chosen from CSE 220, CSE 247, CSE 248, CSE 251, and CSE 230. At least 12 of these credits must be taken at Oakland University. An average grade of at least 2.0 is required in courses counted toward this minor.

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

# DEPARTMENT OF ELECTRICAL AND SYSTEMS ENGINEERING

102A SCIENCE AND ENGINEERING BUILDING

(248) 370-2177

**Acting Chairperson:** *Manohar Das*

**Professors emeriti:** *Naim A. Kheir, Keith R. Kleckner, Tung H. Weng, Howard R. Witt*

**Professors:** *Hoda S. Abdel-Aty-Zohdy, Ka C. Cheok, Manohar Das, Edward Y. L. Gu, Pieter A. Frick, Robert N. K. Loh, Michael P. Polis, Andrzej Rusek, Mohamed A. Zohdy*

**Associate professors:** *John Liu, Barbara Oakley*

**Assistant professor:** *Daniel Aloï*

**Adjunct professor:** *Ronald R. Beck*

**Adjunct associate professors:** *Francis B. Hoogterp, Mutasim Salman*

**Adjunct assistant professors:** *Gert S. Edzko Smid, Randy Graca*

## Advisory Board

The Electrical and System Engineering External Advisory and Development Board assists the department in enhancing its educational and research programs and ensuring their relevance to current and emerging technological needs. Board members are:

*M.L. Dougherty, Sr., Manager, Applied Research, DANA Corporation*

*Kathleen Simonyi McMahon, Ph.D., Engineering Group Manager, General Motors Corporation*

*William H. Mattingly, Vice President, DaimlerChrysler Corporation*

*Shigeru Oho, Senior Manager/Senior Researcher, Hitachi America, Ltd.*

## Mission

The Department of Electrical and Systems Engineering carries out the mission of the School of Engineering and Computer Science by offering undergraduate majors in Electrical Engineering. The department also offers master's programs in Electrical and Computer Engineering, Systems Engineering and a doctoral program in Systems Engineering.

## Major in Electrical Engineering

Electrical engineering is a broad field encompassing a number of disciplines. Oakland University's undergraduate program in electrical engineering is designed to provide students with the basic knowledge and skills for challenging careers in electrical engineering in the coming decades. The curriculum offers strong fundamentals in analog and digital circuits, electronics including VLSI systems, electromagnetics, electronic devices, communications, controls and power systems. In addition, a strong laboratory component of

the program offers numerous design opportunities and allows students to relate theoretical ideas to practical problems using modern equipment and hardware/software tools. The program also provides numerous engineering design experiences.

Electrical engineering faculty members are engaged in research related to new developments in the field. Their activities contribute to a well-developed, up-to-date curriculum.

### Program Educational Objectives

The undergraduate program in Electrical Engineering will provide educational experiences aimed toward producing graduates who:

- can design an electrical or electronic component or system meeting user specifications;
- can apply laboratory and computer skills to engineering analysis and design;
- can adapt and contribute to new technologies and methods and use these in engineering design;
- are prepared to pursue successfully graduate study in electrical engineering or a related discipline;
- can function successfully in the automotive and other global industries;
- can be effective in a variety of roles such as developing and implementing solutions to problems with technical and non-technical elements, serving as a team member and leading others;
- are proficient in written and oral communication; and
- have high standards of personal and professional integrity and ethical responsibility.

To earn the degree of Bachelor of Science in Engineering with a major in electrical engineering, students must complete a minimum of 128 credits, satisfy the writing requirements (see *Undergraduate degree requirements*) and meet the following requirements:

	<b>Credits</b>
<b>General Education</b>	<b>24</b>
<b>Mathematics and Science</b>	
MTH 154-155	Calculus 8
APM 255	Differential Equations and Linear Algebra 4
MTH 254	Multivariable Calculus 4
CHM 143	Chemical Principles (or CHM 162) 4
PHY 151-152	Introductory Physics 8
Approved math or science elective*	<u>4</u>
	<b>32</b>
<b>Engineering core</b>	
EGR 120	Computer Graphics and CAD 1
EGR 141	Computer Problem Solving in Engineering and Computer Science 4
EGR 240	Introduction to Electrical and Computer Engineering 4
EGR 250	Introduction to Thermal Engineering 4
EGR 260	Introduction to Industrial and Systems Engineering 4
EGR 280	Design and Analysis of Electromechanical Systems <u>4</u>
	<b>21</b>

**Required Professional Subjects**

EE 316	Circuits and Systems	4
EE 325	Signals and Systems	3
EE 327	Electronic Circuits and Devices	4
EE 352	Electromagnetics and Electromechanism	4
EE 378	Design of Digital Systems	4
EE 431	Automatic Control Systems	4
EE 437	Communication Systems	4
EE 491	Senior Design	4
		<hr/> 31

**Electives —**

<b>Professional electives:</b> (see professional electives listed below)	16
<b>Free electives:</b> (may be used to satisfy writing requirement)	4
<b>Total</b>	<hr/> 128

*\*Approved math or science electives:*

*Students majoring in Electrical Engineering are advised to take MTH 275 to broaden their knowledge of Linear Algebra. However, students who have an explicit interest in broadening their knowledge in a specific area of math or science should select an elective from the following approved course list:*

*APM 263, APM 332, APM 357, APM 433, APM 434, APM 455, APM 463, APM 477, BIO 111, BIO 341, BIO 351, BIO 443, CHM 163, MOR 205, PHY 325, PHY 326, PHY 331, PHY 361, PHY 366, PHY 371, PHY 431, PHY 445, MTH 352, MTH 361, MTH 372, STA 322, or others by approval by petition to the SECS Committee on Academic Standing.*

**Economics requirement**

In addition to the requirements stated above, electrical engineering students must fulfill the economics requirement. This may be met by completion of ECN 150, 200, 201 or 210. However, ECN 201 is not part of the general education requirement.

**Performance requirements**

In addition to previously stated requirements, satisfactory completion of the program requires an average grade of at least 2.00 within each required group: namely, mathematics and science, core subjects and professional subjects. Within professional subjects, at most two grades below 2.0 are permitted, at most two different courses may be repeated and a total of three repeat attempts is permitted.

**Professional Electives**

Electrical engineering students interested in broadening their knowledge in a specific area of electrical engineering should elect sequences of courses as described in the specialized professional options listed below to satisfy the electrical engineering electives requirement. Alternatively, they may elect any combination of the elective courses listed below under professional options. Students are encouraged to consult with their academic adviser in selecting elective courses.

**1. Computer control systems options(16 credits)****Choose 12 credits from:**

EE 422	Robotic Systems and Control (4)
EE 433	Modern Control System Design (4)
EE 472	Microcomputer-Based Control Systems (4)
EE 470	Microprocessors-Based Systems Design (4)

**Select 4 credits from:**

Any 400-500 level course with EE or CSE designation. CSE designation only with department chair permission.

**2. Communication systems option (16 credits)****Choose 12 credits from:**

EE 426	Advanced Electronic Circuit Designs (4)
EE 450	Satellite-Based Positioning Systems (4)
EE 534	Principles of Digital Communications (4)
EE 537	Digital Signal Processing (4)

**Select 4 credits from:**

Any 400-500 level courses with EE designation.

**3. Electromagnetics option (16 credits)****Choose 12 credits from:**

EE 443	Electric and Magnetic Fields (4)
EE 445	Electromagnetic Engineering (4)
EE 446	Introduction to Electromagnetic Compatibility (4)
EE 526	High-frequency Electronics (4)

**Select 4 credits from:**

Any 400-500 level courses with EE designation.

**4. Electronics option (16 credits)****Choose 12 credits from:**

EE 426	Advanced Electronic Circuit Designs (4)
EE 428	Industrial Electronics (4)
EE 485	VLSI Circuits and Systems Design of Digital Chips (4)
EE 525	Instrumentation and Measurements (4)

**Select 4 credits from:**

Any 400-500 level courses with EE designation.

**5. Microelectronics option (16 credits)****Choose 12 credits from:**

EE 384	Electronic Materials and Devices (4)
EE 485	VLSI Circuits and Systems Design of Digital Chips (4)
EE 487	Integrated Electronics (4)
EE 581	Integrated Circuits and Devices (4)

**Select 4 credits from:**

Any 400-500 level courses with EE designation.

**6. Mechatronic systems option (16 credits)****Choose 12 credits from:**

EE 384	Electronic Materials and Devices (4)
EE 470	Microprocessor-based Systems Design (4)
EE 472	Microcomputer-Based Control Systems (4)
EE 475	Automotive Mechatronics (4)
ME 421	Vibrations and Controls (4)

**Select 4 credits from:**

Any 400-500 level courses with EE, ME or CSE designation. ME and CSE course only with department chair approval.



**7. Power systems option (16 credits)****Choose 12 credits from:**

EE 428	Industrial Electronics (4)
EE 441	Electromechanical Energy Conversion (4)
EE 458	Electrical Energy Systems (4)
EE 433	Modern Control System Design (4)
ME 454	Solar and Alternate Energy Systems (4)

**Select 4 credits from:**

Any 400-500 level courses with EE designation.

**8. Computers option (16 credits)****Choose 12 credits from:**

EE 470	Microprocessor-based Systems Design (4)
EE 472	Microcomputer-based Control Systems (4)
EE 485	VLSI Circuits and Systems Design of Digital Chips (4)
CSE 447	Computer Communications (4)
CSE 464	Computer Organization and Architecture (4)

**Select 4 credits from:**

Any 400-500 level courses with EE designation.

**Sample electrical engineering schedule**

Students entering the School of Engineering and Computer Science with the required background may follow a schedule such as the one indicated below. However, students will need additional time to complete the program if they do not have the required background upon entrance to the program.

<b>Freshman</b>	<b>Cr</b>	<b>Sophomore</b>	<b>Cr</b>	<b>Junior</b>	<b>Cr</b>	<b>Senior</b>	<b>Cr</b>
<i>Fall semester</i>		<i>Fall semester</i>		<i>Fall Semester</i>		<i>Fall semester</i>	
EGR 120	1	MTH 254	4	EGR 260	4	EE 327 or EE378	4
MTH 154	4	EGR 240	4	EGR 280	4	EE 431 or EE 437	4
EGR 141	4	PHY 152	4	EE 325	3	Prof Elective	4
				Approved math or science elective			
Gen Ed	4					Prof Elective	4
Gen Ed	<u>4</u>	Gen Ed	<u>4</u>		<u>4</u>		<u>4</u>
	17		16		15		16
<i>Winter semester</i>		<i>Winter semester</i>		<i>Winter semester</i>		<i>Winter semester</i>	
MTH 155	4	APM 255	4	EE 352	4	EE 431 or EE 437	4
PHY 151	4	EGR 250	4	EE 327 or EE 378	4	EE 491	4
CHM 143	4	EE 316	4	Free Elective	4	Prof Elective	4
Gen Ed	<u>4</u>	Gen Ed	<u>4</u>	Prof Elective	<u>4</u>	Gen Ed	<u>4</u>
	16		16		16		16

# DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING

651 SCIENCE AND ENGINEERING BUILDING

(248) 370-2215

**Chairperson:** *Christian C. Wagner*

**Professor:** *Robert P. Van Til*

**Associate Professors:** *Patrick Dessert, Barbara Oakley, Sankar Sengupta*

## Advisory Board

The Industrial System Engineering External Advisory and Development Board will assist the department in enhancing its educational and research programs and ensuring their relevance to current and emerging technological needs. The ISE Department is currently forming its Advisory Board.

## Mission

The Department of Industrial Systems Engineering carries out the mission of the School of Engineering and Computer Science by offering an undergraduate major in Systems Engineering with a focus on industrial and systems engineering. The department also offers master's programs in Systems Engineering (Industrial and Systems Engineering option) as well as in Engineering Management in cooperation with the School of Business Administration, and a doctoral program in Systems Engineering.

## Major in Systems Engineering

Systems engineering is a discipline with roots in a diverse spectrum of engineering fields. The Industrial and Systems Engineering Department applied this diversity in developing a systems engineering program that focuses on industrial and systems engineering. The coordination of engineering tasks and the assembly of a complex array of subsystems are typical of the systems approach to problem solving and design.

The program emphasizes the important role of the computer in system design and analysis. The curriculum is anchored by a set of professional courses that prepare students for careers in manufacturing, robotics, simulation, computer-assisted design, production systems and quality control.

## Program Educational Objectives

The undergraduate program in systems engineering will provide educational experiences aimed toward producing graduates who:

- can design systems composed of diverse components that must interact in prescribed fashions to meet specified objectives;
- can apply laboratory and computer skills to engineering analysis and design;
- can adapt and contribute to new technologies and methods and use these in engineering design;

- are prepared to pursue successfully graduate study in industrial and systems engineering or a related discipline;
- can function successfully in the automotive and other global industries;
- can be effective in a variety of roles such as developing and implementing solutions to problems with technical and non-technical elements, serving as a team member and leading others;
- are proficient in written and oral communication; and
- have high standards of personal and professional integrity and ethical responsibility.

To earn the degree of Bachelor of Science in Engineering with a major in systems engineering, students must complete a minimum of 128 credits, satisfy writing requirement (see *Undergraduate degree requirements*) and meet the following requirements:

		<b>Credits</b>
<b>General education</b> (excluding mathematics and science)		24
<b>Mathematics and science</b>		
MTH 154-155	Calculus	8
APM 255	Differential Equations and Linear Algebra	4
APM 263	Discrete Mathematics	4
CHM 143	Chemical Principles (or CHM 162)	4
PHY 151-152	Introduction to Physics	8
Approved science elective*		<u>4</u>
		32
<b>Engineering core</b>		
EGR 120	Computer Graphics and CAD	1
EGR 141	Computer Problem Solving in Engineering and Computer Science	4
EGR 240	Introduction to Electrical and Computer Engineering	4
EGR 250	Introduction to Thermal Engineering	4
EGR 260	Introduction to Industrial and Systems Engineering	4
EGR 280	Design and Analysis of Electromechanical Systems	<u>4</u>
		21
<b>Professional subjects</b>		
<b>Required:</b>		
ISE 318	Engineering Statistics	3
ISE 469	Computer Simulation in Manufacturing	4
ISE 483	Production Systems	4
ISE 484	Flexible Manufacturing Systems	4
ISE 485	Automotive Mechatronics	4
ISE 487	Foundations of Systems Engineering	4
ISE 491	Senior Design	4
ME 474	Manufacturing Processes	<u>4</u>
		31

**Electives — select at least 11 credits from groups A and B.****At least two courses must be from group A:****Group A:**

ISE 422	Robotic Systems (4)
ISE 464	Design for Manufacturing and Assembly Analysis (4)
ISE 477	Concurrent Engineering (4)
POM 343	Operations Management (4)

**Group B:**

ISE 490**	Senior Project (2-4)
ISE 494**	Independent Study (2-4)
ME 372	Properties of Materials (4)
EE 463	Foundations of CAD (4)
OSH 331	Occupational Safety I: Engineering and Technology (3)

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11-16**Free Electives** (may be used to satisfy writing requirements)

4-9

For limitations on free electives see *Policies on electives*.

Total

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128

\*Systems engineering majors are encouraged to take MOR 205 Elementary Models in Operations Research or STA 322 Regression Analysis as an approved science elective. However, students who have an explicit interest in broadening their knowledge in a specific area of math or science should select an elective from the following list of additional approved math or science electives: APM 332, APM 357, APM 433, APM 434, APM 455, APM 463, APM 477, BIO 111, BIO 341, BIO 351, BIO 443, CHM 163, MTH 256, MTH 352, MTH 361, MTH 372, PHY 325, PHY 326, PHY 331, PHY 361, PHY 366, PHY 371, PHY 431, PHY 445 or other math or science courses with approval by petition to the SECS Committee on Academic Standing. Students are encouraged to meet with an SECS undergraduate advisor before registering for an approved math or science elective.

\*\*Needs prior permission of the chairperson of the Department of Industrial and Systems Engineering.

**Economics requirement**

In addition to the requirements stated above, systems engineering students must fulfill the economics requirement. This may be met by completion of ECN 150, 200, 201 or 210. However ECN 201 is not part of the general education requirement.

**General business**

Students may wish to augment their degree with a minor in general business. This may be done by completing 19-23 credits specified by the School of Business Administration (see *Minors in the Business Administration* portion of this catalog). Credits from the minor may be used to satisfy the social science general education requirement, the economics requirement, and the free elective requirement.

**Performance requirements**

In addition to all previously stated requirements, satisfactory completion of the systems engineering program requires a grade point average of at least 2.00 within each of the following three groups of courses: mathematics and science, engineering core and professional subjects. Within professional subjects, at most two grades below 2.0 are permitted; at most two different courses may be repeated and a total of three repeat attempts is permitted.

## Sample systems engineering schedule

Students entering the School of Engineering and Computer Science with the required background may follow a schedule such as the one indicated below. However, students will need additional time to complete the program if they do not have the required background upon entrance to the program.

**Freshman year** — fall semester: EGR 120, MTH 154, CHM 143, EGR 141, general education, 17 credits; winter semester: MTH 155, PHY 151, EGR 240, general education, 16 credits.

**Sophomore year** — fall semester: APM 255, PHY 152, EGR 250, general education, 16 credits; winter semester: APM 263, EGR 260, EGR 280, general education, 16 credits.

**Junior year** — fall semester: ISE 318, two general education, science elective, 15 credits; winter semester: SYS 487, ME 474, professional elective, free elective, 16 credits.

**Senior year** — fall semester: ISE 469, ISE 483, ISE 484, professional elective, 16 credits; winter semester: ISE 485, ISE 491, professional elective, free elective, 16 credits.

# DEPARTMENT OF MECHANICAL ENGINEERING

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170 DODGE HALL

(248) 370-2210

**Chairperson:** *Gary C. Barber*

**Professors emeriti:** *Robert Edgerton, Gilbert L. Wedekind*

**Professors:** *Gary C. Barber, Bhushan L. Bhatt, Ren-Jyh Gu, Michael Y.Y. Hung*

**Associate professors:** *Ching L. Ko, Michael A. Latcha, Keyu Li, Zissimos Mourelatos, Sayed Nassar, Brian P. Sangeorzan, Lianxing Yang*

**Assistant professors:** *Yin-Ping Chang, Laila Guessous, Christopher Kobus, Lorenzo Smith, Xia Wang, Qian Zou*

**Adjunct professors:** *Alex Alkidas, Francis H.K. Chen, Yucong Wang*

**Adjunct associate professors:** *Fang Chen, Yung Chiang, Yung-Li Lee, Peter Peng, Phil Szuba, Simon C.Y. Tung*

**Adjunct assistant professors:** *Suresh Ramalingham, Saeed Siavoshani*

## Advisory Board

The Mechanical Engineering and Manufacturing Engineering Option Advisory Board assists the department in enhancing its educational and research programs and ensuring their relevance to current and emerging technological needs. Board members are:

*Jack Dawson, Vice President of Technology, DANA Corporation, Fluid System Products*  
*Suresh Ramalingham, Senior Project Engineer, Advanced Manufacturing,*  
*DaimlerChrysler Corporation*

*Shan Shih, Chief Engineer, Meritor Heavy Vehicle Systems*

*John Siavoshani, Ph.D., Senior Engineer, Ford Motor Company*

*Thomas Stoughton, Metal Forming Specialist, General Motors Research*

*Philip Szuba, Ph.D., Manager, Research and New Product Development,*  
*Lamb Technicon Machining Systems*

## Mission

The Department of Mechanical Engineering carries out the mission of the School of engineering and Computer Science by offering undergraduate majors in mechanical engineering including various options. The department also offers a master's program in mechanical engineering and a Ph.D in mechanical engineering.

## Major in Mechanical Engineering

The field of mechanical engineering offers career opportunities in areas such as design, analysis, test development, research and the manufacturing of various products.

Oakland University's mechanical engineering program provides the student with a foundation in the fundamental concepts and principles associated with mechanics of solids, thermodynamics, fluid and thermal energy, materials, manufacturing, design of mechanical systems, electrical circuits, computer programming and software utilization. A strong laboratory experience and the utilization of instrumentation and computers is interwoven through the curriculum. The program also provides numerous engineering design experiences.

## Program educational objectives

The objectives of the Mechanical Engineering program are to produce graduates who:

- are able to analyze, design, develop and test components and systems in the areas of mechanics and fluid and thermal sciences;
- can adapt and contribute to new technologies and methods and to use them in engineering applications;
- are prepared to pursue successfully graduate study in mechanical/manufacturing engineering or other advanced post-graduate education;
- are proficient in written and oral communication;
- can function successfully in the automotive and other global industries;
- can serve in a variety of roles within or leading a team solving problems with technical and non-technical elements; and
- have high standards of professional integrity and ethical responsibility.

The Mechanical Engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

## Requirements for major in mechanical engineering

To earn the degree of Bachelor of Science in Engineering with a major in mechanical engineering, students must complete a minimum of 128 credits, satisfy writing requirements (see *Undergraduate degree requirements*) and meet the following requirements:

	<b>Credits</b>
<b>General Education (excluding mathematics and science)</b>	<b>24</b>
<b>Mathematics and science</b>	
MTH 154-155      Calculus	8
APM 255          Differential Equations and Linear Algebra	4
MTH 254          Multivariable Calculus	4
CHM 143          Chemical Principles (or CHM 162)	4
PHY 151-152      Introductory Physics	8
Approved math or science elective	
(See list of courses below)	4
	32

**Engineering core**

EGR 120	Computer Graphics and CAD	1
EGR 141	Computer Problem Solving in Engineering and Computer Science	4
EGR 240	Introduction to Electrical and Computer Engineering	4
EGR 250	Introduction to Thermal Engineering	4
EGR 260	Introduction to Industrial and Systems Engineering	4
EGR 280	Design and Analysis of Electromechanical Systems	<u>4</u>
		21

**Professional subjects****Required:**

ME 308	Computer Aided Design	3
ME 322	Engineering Mechanics	4
ME 331	Introduction to Fluid and Thermal Energy Transport	4
ME 361	Mechanics of Materials	4
ME 372	Properties of Materials	4
ME 421	Vibrations and Controls	4
ME 486	Mechanical Systems Design	4
ME 456 or ME 482	Energy Systems Analysis and Design or Fluid and Thermal Systems Design	4
ME 492 or ME 490*	Senior Mechanical Engineering Design Project or Senior Project	<u>4</u>
		35

**Electives —**

**Professional electives:** three mechanical engineering electives  
(see description below)

**Free electives:** (may be used to satisfy writing requirement) 4

Total 128

\*ME 490 requires approval of project proposal by the Mechanical Engineering Dept. chair, if taken in place of ME 492, and project must be team-based.

**Economics requirement**

In addition to the requirements stated above, mechanical engineering students must fulfill the economics requirement. This may be met by completion of ECN 150, 200, 201 or 210. However, ECN 201 is not part of the general education requirement.

**Performance requirements**

In addition to previously stated requirements, satisfactory completion of the program requires an average grade of at least 2.00 within each group: namely, mathematics and science, core subjects, and professional subjects. Within professional subjects, at most two grades below 2.0 are permitted; at most two different courses may be repeated and a total of three repeat attempts is permitted.

**Approved math or science electives**

Students majoring in mechanical engineering are advised to take MTH 275 to broaden their knowledge of linear algebra. However, students having an explicit interest in broadening their knowledge in a specific area of mathematics or science should elect a course from the following approved course list. For more information about these selections, students are encouraged to visit with an undergraduate adviser before registering for an approved math or science elective.



APM 332	Applied Matrix Theory (4)
APM 357	Elements of Partial Differential Equations (4)
APM 433	Numerical Methods (4)
APM 434	Applied Numerical Methods: Matrix Methods (4)
CHM 158	General Chemistry II (5)
BIO 111	Biology (4)
PHY 325	Biological Physics (4)
PHY 331	Optics (4)
PHY 366	Vibrations and Waves (4)
PHY 371	Foundations of Modern Physics (4)
MTH 275	Introduction to Linear Algebra (4)
MTH 352	Complex Variables (4)
MTH 361	Geometric Structures (4)

Or others by approval by petition to the SECS Committee on Academic Standing.

## Mechanical engineering electives

Mechanical engineering students must complete at least three (3) additional 400- or 500-level courses with an ME designation or other approved 400-level engineering courses with a EE, ISE designation. However, students may not take more than one of the following courses:

ME 476	Product and Process Development (4)
ME 477	Concurrent Engineering (4)
ME 494**	Independent Study (2-4)
EE 431	Automatic Control Systems (4)
ISE 469	Computer Simulation in Manufacturing (4)
ISE 483	Production Systems (4)

Students interested in broadening their knowledge in a specific area of mechanical engineering should elect sequences of courses as described in the specialized professional options listed below to satisfy the mechanical engineering electives requirement. These options list elective courses that are fundamental to each area, as well as other relevant professional electives.

## Professional Options

### 1. Fluid and thermal systems option

This option includes courses in the fluid and thermal energy transport area.

#### Recommended fundamental subjects:

ME 438	Fluid Transport(4)
ME 448	Thermal Energy Transport (4)

#### Other relevant courses:

ME 423	Acoustics and Noise Control (4)
ME 439	Computational Fluid Dynamics (4)
ME 449	Numerical Techniques in Heat Transfer and Fluid Flow (4)
ME 454	Solar and Alternate Energy Systems (4)
ME 456	Energy Systems Analysis and Design (4)
ME 457	Internal Combustion Engines I (4)
ME 482	Fluid and Thermal Systems Design (4)
ME 490	Senior Project (4)

## 2. Computer-aided design option

This option includes courses in the computer-aided design (CAD) and analysis area.

### Recommended fundamental subjects:

ME 487	Mechanical Computer-Aided Engineering (4)
ME 488	Mechanical Computer-Aided Manufacturing (4)

### Other relevant courses:

ME 439	Computational Fluid Dynamics (4)
ME 449	Numerical Techniques in Heat Transfer and Fluid Flow (4)
ME 472	Material Properties and Processes (4)
ME 490	Senior Project (4)
EE 431	Automatic Control Systems (4)
EE 463	Foundations of Computer-Aided Design (4)

## 3. Automotive Engineering option

This option includes courses with an automotive engineering emphasis area with two possible areas of speciality: automotive structures or internal combustion engines.

### Recommended fundamental subjects: Automotive Structures Specialty

ME 461	Analysis and Design of Mechanical Structures (4)
ME 484	Automotive Engineering Design I (4)

or

### Recommended fundamental subjects: Internal Combustion Engines Specialty

ME 456	Energy Systems Analysis and Design (4)
ME 457	Internal Combustion Engines I (4)

### Other relevant courses:

ME 423	Acoustics and Noise Control (4)
ME 438	Fluid Transport (4)
ME 439	Computational Fluid Dynamics (4)
ME 448	Thermal Energy Transport (4)
ME 467	Optical Measurement and Quality Inspection (4)
ME 487	Mechanical Computer-Aided Engineering (4)
ME 489	Fasteners and Bolted Joints (4)
ME 490	Senior Project (4)
EE 473	Automotive Electronics (4)
EE 431	Automatic Control Systems (4)
EE 475	Automotive Mechatronics I (4)

## 4. Manufacturing Engineering option

This option includes courses in the manufacturing area.

### Recommended fundamental subjects:

ME 472	Material Properties and Processes (4)
ME 474	Manufacturing Processes (4)

### Other relevant courses:

ME 444	Plastics Processing Engineering (4)
ME 467	Optical Measurement and Quality Inspection (4)
ME 473	Flexible Manufacturing Systems (4)
ME 478	Robotic Systems (4)
ME 488	Mechanical Computer-Aided Manufacturing (4)
ME 490	Senior Project (4)
EE 431	Automatic Control Systems (4)

ISE 469	Computer Simulation in Manufacturing (4)
ISE 483	Production Systems (4)
ISE 484	Flexible Manufacturing Systems (4)
ISE 485	Statistical Quality Control (4)

#### 5. **Plastics and Composites Manufacturing Engineering option**

This option includes courses in the plastics and composites manufacturing area.

**Recommended fundamental subjects:**

ME 443	Introduction to Plastic Materials and Technology (4)
ME 444	Plastics Processing Engineering (4)
ME 445	Plastics Product Design (4)
ME 490	Senior Project (4)

### **Sample mechanical engineering schedule**

Students entering the School of Engineering and Computer Science with the required background may follow a schedule such as the one indicated below. However, students will need additional time to complete the program if they do not have the required background upon entrance to the program.

**Freshman year**— fall semester: EGR 120, MTH 154, CHM 143, EGR 141, general education, 17 credits; winter semester: MTH 155, PHY 151, EGR 240, general education, 16 credits.

**Sophomore year** — fall semester: APM 255, PHY 152, EGR 250, general education, 16 credits; winter semester: MTH 254, EGR 260, EGR 280, general education, 16 credits.

**Junior year** — fall semester: ME 322, ME 331, ME 372, general education, 16 credits; winter semester: ME 308, ME 361, free or professional elective, science elective, 15 credits.

**Senior year**— fall semester: ME 421, ME 486, one professional subject (required or elective), general education, 16 credits; winter semester: ME 492, three professional subjects (required or elective), 16 credits.

# ENGINEERING SCIENCES PROGRAMS

## Major in Engineering Chemistry

**Coordinators:** *Ching L. Ko (engineering), Dagmar Cronn (chemistry)*

The program in engineering chemistry, offered jointly by the School of Engineering and Computer Science and the College of Arts and Sciences, leads to the Bachelor of Science degree. It provides for intensive study in chemistry, along with basic preparation in engineering.

To earn the degree of Bachelor of Science with a major in engineering chemistry, students must complete a minimum of 128 credits, satisfy writing requirement (also see *Undergraduate degree requirements*) and meet the following requirements:

	<b>Credits</b>
<b>General education</b>	<b>24</b>
<b>Mathematics and physics</b>	
MTH 154-155	Calculus 8
APM 255	Differential Equations and Linear Algebra 4
MTH 254	Multivariable Calculus 4
PHY 151-152	Introduction to Physics 8
	24
<b>Chemistry</b>	
CHM 157-158	General Chemistry (or CHM 167-168) (or CHM 162-163) 8-10
CHM 234-235	Organic Chemistry 8
CHM 237	Organic Chemistry Laboratory I 2
CHM 325	Analytical Chemistry 4
CHM 342-343	Physical Chemistry 8
CHM 348	Physical Chemistry Laboratory 2
CHM 471	Macromolecular Chemistry 3
	2 (3)
	37(40)
<b>Engineering</b>	
EGR 120	Computer Graphics and CAD 1
EGR 141	Computer Problem Solving in Engineering and Computer Science 4
EGR 240	Introduction to Electrical and Computer Engineering 4
EGR 250	Introduction to Thermal Engineering 4
EGR 260	Introduction to Industrial and Systems Engineering 4
EGR 280	Design and Analysis of Electromechanical Systems 4
ME 331	Introduction to Fluid and Thermal Energy Transport 4
	25
Plus 8 credits from:	
ME 438	Fluid Transport (4)
ME 439	Computational Fluid Dynamics (4)
ME 448	Thermal Energy Transport (4)
ME 449	Numerical Techniques in Heat Transfer and Fluid Flow (4)

ME 456	Energy Systems Analysis and Design (4)	
ME 457	Internal Combustion Engines I (4)	
ME 482	Fluid and Thermal Systems Design (4)	
EE 431	Automatic Control Systems (4)	
		8

**Capstone Course**

CHM 491 or ME 490		3
<b>Free electives</b> (may be used for writing requirement)		<u>4 (7)</u>
	<b>Total</b>	128

**Performance requirements**

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, chemistry, and mathematics and physics requirements.

**Major in Engineering Physics**

**Coordinators:** *Hoda Abdel-Aty-Zohdy (engineering), Andrei Slavin (physics)*

The program in engineering physics is offered jointly by the School of Engineering and Computer Science and the College of Arts and Sciences. This program blends the pure and applied, the theoretical and practical aspects of scientific knowledge into a meaningful educational experience. Through the university's cooperative education program, engineering physics students may opt to combine a relevant work experience with their formal education.

To earn the degree of Bachelor of Science with a major in engineering physics, students must complete a minimum of 128 credits, demonstrate writing proficiency (see *Undergraduate degree requirements*) and meet the following requirements:

	<b>Credits</b>
<b>General education</b>	24
<b>Mathematics and sciences</b>	
MTH154-155	8
MTH254	4
APM 255	4
CHM143	4
PHY 151-152	8
PHY 158	2
PHY 317	2
PHY 351	4
PHY 361	4
PHY 371	4
Another course in physics in addition to any required in options below, chosen from:	
PHY 331	4
PHY 366	4
PHY 381	4
PHY 472	4
	<u>4</u>
	48
<b>Engineering</b>	
EGR 120	1
EGR 141	4
EGR 240	4
EGR 250	4

EGR 260	Introduction to Industrial and Systems Engineering	4
EGR 280	Design and Analysis of Electromechanical Systems	4
EE 316	Circuits and Systems	4
EE 327	Electronic Circuits and Devices	4
EE 490 or PHY 490	Senior Project / Research (Capstone)	<u>3</u>
		32

### Professional options

(The following two options are offered as typical. Select one of these. Students with different interests can construct different options in consultation with the program coordinators.)

### Solid state physics and technology option

EE 384	Electronic Materials and Devices	4
PHY 472	Quantum Mechanics I	4
	Design elective, chosen from:	4
EE 378	Design of Digital Systems (4)	
EE 426	Advanced Electronics (4)	
EE 437	Communication Systems (4)	
EE 470	Microprocessors and Microcomputers (4)	
EE 487	Integrated Electronics (4)	
		<u>12</u>

### Applied mechanics option

PHY 366	Vibrations and Waves	4
ME 320 or 361	Engineering Mechanics or Mechanics of Materials	4
	Design elective, chosen from:	4
ME 456	Energy Systems Analysis and Design (4)	
ME 461	Analysis and Design of Mechanical Structures (4)	
ME 482	Fluid and Thermal Energy Systems (4)	
ME 486	Mechanical Systems Design (4)	
ME 487	Mechanical Engineering CAD/CAM Systems (4)	
		<u>12</u>

### Technical electives, chosen from:

MTH 275	Linear Algebra (4)	
APM 263	Discrete Mathematics (4)	
PHY 318	Nuclear Physics Laboratory (2)	
PHY 331	Optics (4)	
PHY 366	Vibrations and Waves (4)	
PHY 372	Nuclear Physics (4)	
PHY 381	Electricity and Magnetism I (4) or	
PHY 418	Modern Optics Laboratory (2)	
PHY 472	Quantum Mechanics I (4)	
PHY 482	Electricity and Magnetism II (4)	
EE 352	Electromagnetics and Electromechanisms (4)	
EE 378	Design of Digital Systems (4)	
EE 384	Electronic Materials and Devices (4)	
ME 331	Introduction to Fluid and Thermal Energy Transport (4)	
ME 361	Mechanics of Materials (4)	
	Any 400-level EE, ME or ISE courses (4-8)	
		<u>6-8</u>

**Free electives** (may be used to satisfy writing requirement)

4-6

Total

128

### Performance requirements

In addition to the previously stated requirements, satisfactory completion of the program requires an average grade of at least 2.00 in the engineering and computer science courses and also in the mathematics and science courses taken to meet program requirements.

## Course Offerings

Courses offered through the School of Engineering and Computer Science carry the following designations: information technology courses, CIT; computer science and engineering courses, CSE; electrical engineering courses, EE; industrial and systems engineering courses, ISE; mechanical engineering courses, ME. Courses offered under the general title of engineering are listed under EGR. For some of the courses, the semester(s) in which they are usually offered is indicated at the end of course description. However, this is subject to change.

To register for 300- and 400-level courses, students must have attained major standing.

## ENGINEERING

### EGR 120      Engineering Graphics and CAD (1)

An introduction to the techniques for creating solid models of engineering designs. Topics include three-dimensional modeling of parts and assemblies, visualization, orthographic project views and layouts, auxiliary, sectional, and cutout views, exploded views, dimensioning and tolerancing, bill of materials, and computer-generated design documentation. Offered fall, winter.

### EGR 141      Computer Problem Solving in Engineering and Computer Science (4)

General methods of problem solving and principles of algorithmic design using a high-level language such as Visual Basic .NET. Introduction to MATLAB. Applications will be drawn from problems in mechanical, electrical and computer engineering and computer science. Offered fall, winter. Corequisite: MTH 154.

### EGR 240      Introduction to Electrical and Computer Engineering (4)

An introduction to the fundamentals of electrical and computer engineering; DC and AC circuits; transient analysis of first-order circuits, digital logic circuits, combinational logic design, sequential circuits, introduction to electronics, operational amplifiers, DC electromechanical machines. Laboratory. Offered fall, winter.

Prerequisite: EGR 141; Corequisites: MTH 155, PHY 151.

### EGR 250      Introduction to Thermal Engineering (4)

Introduction to the fundamentals of classical thermodynamics and heat transfer; first and second laws of thermodynamics, thermodynamic property relationships, application to engineering systems and processes, steady and transient conduction in solids, introduction to convection heat transfer correlations. Offered fall, winter.

Prerequisites: CHM 143, PHY 151, EGR141; Corequisite: APM 255.

### EGR 260      Introduction to Industrial and Systems Engineering (4)

Probability and statistics in manufacturing, conditional probability, Bayes' theorem, probability distribution functions, statistics and sampling distributions, hypothesis testing, engineering economic analysis, project management and systems analysis. Offered fall, winter.

Prerequisite: EGR141; Corequisite: APM 255.

### EGR 280      Design and Analysis of Electromechanical Systems (4)

Design, analysis, and testing of electromechanical systems; statics, linear and rotational dynamics; introduction to microprocessors, team design project dealing with technical, economic, safety, environmental, and social aspects of a real-world engineering problem; written, oral, and visual communication, engineering ethics. Offered fall, winter.

Prerequisites: EGR 120, EGR 240 Corequisite: EGR 250, EGR 260.

### EGR 295      Special Topics (1 to 4)

Study of special topics in engineering and/or computer science. May be taken more than once. Topic must be approved prior to registration.

**EGR 391 Cooperative Engineering and Computer Science (1)**

A seminar course for cooperative engineering and computer science students to be taken in the semester following a cooperative training assignment. A report of the training assignment must be submitted within four weeks of the beginning of the course. May be taken up to three times. Offered fall, winter.

Prerequisite: Consent of the cooperative education coordinator.

**EGR 400 Engineering Seminar (1)**

Lectures and discussions conducted by faculty, graduate students and speakers from industry and other universities. Emphasis is on current research interests of the school. May be taken twice.

**EGR 496 International Engineering and Computer Science (4)**

An independent study or technical internship involving a minimum of eight weeks of residence abroad; student is required to present a final report. Departmental approval is required prior to registration.

Prerequisite: Senior standing.

**INFORMATION TECHNOLOGY****CIT 120 Introduction to Computing and Programming using Excel (4)**

An introduction to computers and programming. It introduces algorithms for applications that contain integrated development environments (IDE), such as Microsoft Excel's IDE for Visual Basic for Applications (VBA). Algorithmic topics include repetitive and decision structures, functions, subroutines, and ActiveX controls. Programming topics include application automation and presenting information programmatically. Laboratory. *Satisfies the university general education requirement in formal reasoning knowledge foundation area.* (Cross-listed with CSE 120.)

Prerequisites: Computer Literacy or MTH 012 or equivalent.

**CIT 122 Computer Animation (4)**

Computer animation is an increasingly critical component of human-computer-interaction, computer games, movie industry, and scientific and engineering visualization. This course covers the fundamental concepts underlying animation, discusses the characteristics and constraints of the different techniques and how they fit together, and teaches students the skills to create animations and computer games. This course is lab-intensive. Offered fall, winter. *Satisfies the university general education requirement in the formal reasoning knowledge foundation area.*

Prerequisites: CSE 110 and MTH 012 or equivalent.

**CIT 130 Introduction to Computer Programming (4)**

Introduction to digital computers and algorithmic programming. Topics include: data storage and manipulation, control structures, functions and subprogramming. Introduction to object-oriented programming. Students cannot receive credit for both CSE 141 and this course. Offered fall, winter. (Cross-listed with CSE 130). *Satisfies the university general education requirement in the formal reasoning knowledge area.*

Prerequisite: MTH 012 or equivalent.

**CIT 220 Spreadsheet Programming and Reporting (4)**

Introduction to business applications using Visual Basic. Emphasis on structured programming for automating word processing and spreadsheet applications such as Microsoft Word and Excel, including creating reports using a report writer for database record sets from integrated business applications. Topics include Office Automation events, properties, methods, and programming techniques. (Cross-listed with CSE 220).

Prerequisites: CIT 130 and MTH 122 or equivalent.

**CIT 222 Interactive Digital Media (4)**

Introduction to basics of digital image, audio and video techniques. Multimedia authoring tools. Creation of interactive multimedia content and applications.

Prerequisite: CIT 130.



**CIT 230      Object-Oriented Computing I (4)**

Introduction to object-oriented computer programming using a high-level programming language such as Java. Classes, member functions, inheritance, polymorphism and operator overloading. Design methodologies and introduction to software engineering principles and practices. Basic data structures are introduced. (Cross-listed with CSE 230).

Prerequisite: CIT 130 or CSE 141.

**CIT 247      Introduction to Computer Networks (4)**

An introduction to networking methodologies, protocols and implementation. Topics covered include topologies, networking hardware, remote network access, security, Internet servers and protocols; including web and mail server setup, firewalls, VPN and router configuration. Hands-on laboratory using various platforms such as Microsoft and Linux Networking systems also using various tools such as ethereal. (Cross-listed with CSE 247).

Prerequisite: High level programming course or CIT 230.

**CIT 248      Computer Systems (4)**

Introduction to computer systems. Topics cover computer system components including hardware components, storage devices, memory, graphics accelerators, device and communications interfaces, and, CISC and RISC processors, operating systems and network operating systems. Issues in cost, performance, security, and compatibility are also considered.

Prerequisite: CIT 230.

**CIT 251      Web Programming (4)**

An introduction to web technologies. Topics covered include use of modern web development tools, Hypertext Markup Language (HTML), server-side processing, and client-side processing using languages such as JavaScript. Students will use these tools to create interactive and dynamic web sites. (Cross-listed with CSE 251).

Prerequisite: CIT 230.

**CIT 280      Sophomore Project (2)**

A team-oriented project work consisting of a small project to build skills in needs assessment, group problem solving, and written and oral technical presentations.

Prerequisites: CIT 220 and 251.

**CIT 337      Software Engineering and Practice (4)**

Introduction to software engineering and practice. Topics include software process models, project management, requirements analysis, software quality assurance, and testing.

Prerequisite: Major standing in IT/CSE.

**CIT 345      Database Design and Implementation (4)**

Introduction to the design and implementation of database systems. Include designing a practical database for an application using normal forms, understanding relational database schemas, planning and implementing a database using software such as Oracle and Microsoft SQL Server, advanced database topics in redundancy, replication, load balancing, compatibility, ODBC and JDBC, and database systems administration. (Cross-listed with CSE 345).

Prerequisite: Major standing in IT.

**CIT 346      System Administration and Security (4)**

This course surveys the tools and techniques for administering computing systems. Topics include system installation, file systems and directory permission structures, print and disk quotas, device configuration and management, client administration, remote access and remote administration, and security. The course has a significant lab component.

Prerequisite: Major standing in IT.

**CIT 350      Human Computer Interaction (4)**

Surveys various components, techniques of Human Computer Interaction (HCI). Topics include the basic perceptual, cognitive and performance capabilities of people and external factors that affect these capabilities, tools, techniques for understanding, predicting, evaluating the interactions of people with technology. Systematic processes for designing, evaluating and revising interactive systems are studied.

Prerequisite: Major standing in IT/CS.

**CIT 352      Systems Analysis (4)**

Theory and practice of designing information systems to meet users needs. Topics include information systems development life cycle, methodologies for requirement analysis, tools for system analysis, rapid prototyping, and analyzing and designing system interfaces.  
Prerequisite: Major standing in IT. (Cross-listed with MIS 316).

**CIT 402      Professional Practice (2)**

Seminars on software piracy, hacking, privacy, professional conduct and the impact of information technology on society.  
Prerequisite: Major standing in IT.

**CIT 450      CIT Project Management (4)**

This course presents the theory and practice of IT project management. Topics include financial modeling, cost and effort estimation, project risk management, and project evaluation and selection as well as topics in IT project sponsorship, stewardship and leadership. IT entrepreneurship and marketing are emphasized throughout the course.  
Prerequisites: Major standing in IT. (Cross-listed with MIS 450).

**CIT 480      Senior Capstone Project (4)**

An individual or a team-oriented senior project to synthesize the knowledge and skills gained in the IT curricula. Written and oral reports are required in addition to a working demo.  
Prerequisite: Senior standing in IT. (Cross-listed with MIS 480).

**CIT 495      Special Topics (2 to 4)**

Advanced study of special topics. May be taken more than once.

**CIT 496      Internship (4)**

The student works on a specific project at a corporate site with the prior approval by the program director. Oral and written presentations about the project are required.  
Prerequisite: Major standing in IT.

**CIT 497      Industrial Project (4)**

The student works on a specific project at a corporate site with the prior approval by the program director. Oral and written presentations about the project are required.  
Prerequisite: Major standing in IT. (Cross-listed with MIS 450).

**CIT 498      Undergraduate Research (4)**

The student performs research under the supervision of a faculty member. Prior permission required. Oral and written presentations about the research are required.  
Prerequisite: Major standing in IT.

**COMPUTER SCIENCE AND ENGINEERING****CSE 110      Computer Literacy (2)**

An introduction to the use of desktop computers. Topics include word-processing, spreadsheets, PowerPoint and the use of the worldwide web.

**CSE 120      Introduction to Computing and Programming using Excel (4)**

An introduction to computers and programming. It introduces algorithms for applications that contain integrated development environments (IDEs) such as Microsoft Excel's IDE for Visual Basic for Applications (VBA). Algorithmic topics include repetitive and decision structures, functions, subroutines, and ActiveX controls. Programming topics include application automation and presenting information programmatically. Accompanied by laboratory sessions. Offered fall, winter. (Cross-listed with CIT 120). *Satisfies the university general education requirement in the formal reasoning knowledge foundation area.*

Prerequisites: Computer Literacy and MTH 012 or equivalent.

**CSE 125 Introduction to Computer Use (4)**

A first course in computer usage for non-engineering and computer science majors. Introduction to computer hardware, software and business applications. Topics include word processing, spreadsheets, data base management, data communications and graphics software. Programming concepts in data base languages. Problem-solving methodology is emphasized. Instruction is divided between lecture and computing laboratory. Offered fall, winter.

Prerequisite: MTH 012 or equivalent.

**CSE 130 Introduction to Computer Programming (4)**

Introduction to digital computers and algorithmic programming. Topics include: data storage and manipulation, control structures, functions and subprogramming. Introduction to object-oriented programming. Students cannot receive credit for both CSE 130 and 141. Offered fall, winter. (Cross-listed with CIT 130). *Satisfies the university general education requirement in the formal reasoning knowledge foundation area.*

Prerequisites: Computer Literacy and MTH 012 or equivalent.

**CSE 141 Computer Problem Solving in Engineering and Computer Science (4)**

General methods of problem solving and principles of algorithmic design using a high level computer language such as Visual Basic. Applications will be drawn from problems in mechanical, electrical and computer engineering and computer science. Students cannot receive credit for both CSE 130 and 141. Offered fall, winter.

Co-requisite: MTH 154.

**CSE 171 Introduction to Digital Logic and Microprocessors (4)**

Introduction to digital logic using programmable logic devices. Introduction to computer organization and microprocessors. Assembly language programming. Offered fall, winter.

Prerequisites: CSE 141 and MTH 154.

**CSE 220 Spreadsheet Programming and Reporting (4)**

Introduction to business applications using Visual Basic. Emphasis is on structured programming and top-down development in an interactive environment. Topics include extended Visual Basic syntax, Active-X controls, business application design, an introduction to integrating a database system with a business application, and using a report writer to design reports. (Cross-listed with CIT 220).

Prerequisite: CSE 130 or CSE 141.

**CSE 230 Object-Oriented Computing I (4)**

Introduction to object-oriented computer programming using a high-level programming language such as Java. Classes, member functions, inheritance, polymorphism and operator overloading. Design methodologies and introduction to software engineering principles and practices. Basic data structures are introduced.

Prerequisite: CSE 141 or CIT 130.

**CSE 231 Object-Oriented Computing II (4)**

A second course in object-orientated programming with emphasis on data abstraction and object-oriented design. The basic data structures in computer science, including stacks, queues, files, lists, trees and graphs, are covered in detail. Concepts of design, analysis and verification are discussed in the context of abstract data types. Examples of applications taken from numeric and symbolic domains are used.

Prerequisite: CSE 230.

**CSE 247 Introduction to Computer Networks (4)**

An introduction to networking methodologies, protocols and implementation. Topics covered include topologies, networking hardware, remote network access, security, Internet servers and protocols; including web and mail server setup, firewalls, VPN and router configuration. Hands-on laboratory using various platforms such as Microsoft and Linux Networking systems also using various tools such as ethereal.

Prerequisite: One course in a high level programming language.

**CSE 248 Open Source Software Development (4)**

This course covers application software development within the open source environment. State of the art tools, application and languages are covered. Topics include: the Unix operating system, GNU C/C++, software maintenance utilities, and scripting languages such as Perl and Python. The architectures of higher-level components, including the Apache web server, MySQL database server, PHP application server, are presented.

Prerequisite: CSE 231.

**CSE 251      Web Programming (4)**

An introduction to web technologies. Topics include use of modern web development tools, Hypertext Markup Language (HTML), server-side processing using languages such as ASP or PHP, and client-side processing using languages such as JavaScript. Students will use these tools to create interactive and dynamic web sites.

Prerequisite: One course in a high level programming language.

**CSE 331      Event-Driven Programming (4)**

Development of Object-Oriented applications using the Java development environment. Introduction to the Model View Controller (MVC) design patterns and the Java Graphical User Interface (GUI) model. Course topics will include object concept, code reuse and code libraries, messages and message handlers, dialog boxes and controls, document interfaces, menus, toolbars, database connectivity, and web applications.

Prerequisite: CSE 231.

**CSE 335      Programming Languages (4)**

Fundamental concepts in programming languages. Several high-level languages are studied in depth and their approaches to the fundamental issues in language design are compared. Issues include: data types and structures, control structures, binding times, run-time, storage organization, flexibility vs. efficiency, compiled vs. interpreted languages, strong vs. weak typing, block structure and scope of names. Offered fall.

Prerequisites: CSE 231, MTH 256 and major standing.

**CSE 337      Software Engineering and Practice (4)**

Introduction to software engineering and practice. Topics include software process models, project management, requirements analysis, software quality assurance, and testing.

Prerequisite: Major standing in CS.

**CSE 343      Theory of Computation (4)**

Formal models of computation, including finite state automata, pushdown automata and Turing machines. Regular and context-free languages. The computational models are used to discuss computability issues. Offered winter.

Prerequisites: CSE 361 and major standing.

**CSE 345      Database Design and Implementation (4)**

Introduction to the design and implementation of database systems. Topics include designing a practical database for an application using normal forms, understanding relational database schemas, planning and implementing a database using software such as Oracle and Microsoft SQL Server, advanced database topics in redundancy, replication, load balancing, compatibility, ODBC and JDBC, and database systems administration. (Cross-listed with CIT 345).

Prerequisite: Major standing in CS.

**CSE 361      Design and Analysis of Algorithms (4)**

Computer algorithms, their design and analysis. Strategies for constructing algorithmic solutions, including divide-and-conquer, dynamic programming and greedy algorithms. Development of algorithms for parallel and distributed architectures. Computational complexity as it pertains to time and space is used to evaluate the algorithms. A general overview of complexity classes is given. Offered fall, winter.

Prerequisites: CSE 231, APM 263.

**CSE 378      Computer Hardware Design (4)**

Development of components and techniques needed to design basic digital circuits and systems for computers, communication and related applications. Design and analysis of combinational and sequential logic circuits using a hardware description language such as VHDL. Design of a small digital computer and its implementation in an FPGA.

Prerequisites: CSE 171 and major standing.

**CSE 402      Social Implications of Computers (1)**

Seminars dealing with the professional, social and ethical issues of computer science and engineering. Presentations by faculty, students and visiting professionals. (Graded S/U). Credit cannot be earned for both CSE 402 and EGR 401. Offered fall.

Prerequisite: Senior standing in the School of Engineering and Computer Science.

**CSE 439      Software Engineering (4)**

Overview of software development processes, tools, and techniques from the perspective of learning what they can and cannot do; deciding how to apply them; and selecting among available alternatives. Requirements: analysis and specification techniques, life-cycle models, process modeling, software design methods, project planning and management, quality assurance, configuration management, program and system testing. Offer fall.

Prerequisite: CSE 361 or equivalent, major standing.

**CSE 447      Computer Communications (4)**

A study of data communications and computer networks with emphasis on the functional characteristics of communications hardware and the design of communications control software. Standard protocols and interfaces. Case studies of local area networks and wide area networks. Communications software is designed and implemented as student projects. Offered fall.

Prerequisite: CSE 450 or equivalent.

**CSE 450      Operating Systems (4)**

Introduction to the concepts and design of multi-programmed operating systems. Typical topics include: historical perspectives, sequential processes, concurrent processes, processor management, memory management, scheduling, file management, resource protection, a case study. Offered fall, winter.

Prerequisites: CSE 361 and major standing.

**CSE 461      Bioinformatics (4)**

This course covers the fundamental algorithms and computational methods for study of biological sequence data for comparative biology and evolution with the focus on discovery of genome content, function and organization. Specific methodologies covered include the algorithms for searching sequence databases, pair-wise and multiple sequence alignment, phylogenetic methods, and methods for pattern recognition and functional inference from sequence data.

Prerequisite: Major standing in CS/IT.

**CSE 464      Computer Organization and Architecture (4)**

Stored program computers, performance evaluation, RISC and CISC architectures, instruction sets, theory and design of arithmetic-logic and control units, hardwired control design and microprogrammed design, memory organization, cache mapping, associative memory, pipeline computer design, linear and non-linear pipelines, data and branch hazards, stalling, interfacing input/output units with processors, parallel processing. Course emphasizes hardware design and organization. Offered winter.

Prerequisites: CSE 378, APM 263 and major standing.

**CSE 470      Microprocessor-based Systems Design (4)**

Application of microprocessors and microcomputers to the solution of typical problems; interfacing microprocessors with external system such as sensors, displays and keyboards; programming considerations, microcomputer system and memory system design. A laboratory, design course; several short design projects and one large design project. Written report and oral presentation required. Credit cannot be earned for both CSE 470 and EE 470. Offered fall, winter.

Prerequisite: CSE 378.

**CSE 480      Senior Design (4)**

A team-oriented senior design course for computer science and computer engineering majors. Teams will conceive, analyze, design, implement and test a computer-based hardware and/or software system, component or process. Results will be demonstrated and documented in oral presentations and written reports.

Prerequisites: CSE 378 and either CSE 470 or CSE 331.

**CSE 490      Senior Project (2 to 4)**

Independent work on advanced laboratory projects. Topic must be approved prior to registration. May be taken more than once.

**CSE 494      Independent Study (2 to 4)**

Advanced individual study in a special area. Topic must be approved prior to registration. May be taken more than once.

**CSE 495      Special Topics (2 to 4)**

Advanced study of special topics. May be taken more than once.

The following courses are graduate level courses open to undergraduate students with instructor permission:

**CSE 512      Artificial Intelligence in Manufacturing (4)**

Integration of the techniques and methodologies from artificial intelligence and manufacturing engineering. On the manufacturing side, issues of design, manufacturability, process planning and cost analysis are cast around feature-based CAD/CAM technologies. The artificial intelligence techniques include standard transparent representation schemes of rule bases and semantic networks as well as the most up-to-date opaque representations of neural networks and genetic algorithms, both areas integrated with issues of fuzzy logic and control. Involves a large class project.

**CSE 513      Soft Computing (4)**

A study of algorithms that can be used to add humanlike intelligence to computer systems. Topics include fuzzy logic, artificial neural networks, genetic algorithms, and classification and regression trees. Applications to machine learning, pattern recognition and intelligent automation.

**CSE 516      Artificial Intelligence (4)**

An introduction to artificial intelligence techniques, including: knowledge representation using semantic networks, scripts, frames, predicate calculus, production and expert systems, and procedures; learning via symbolic and adaptive algorithms; natural language understanding; and game playing and other searching problems. Offered fall.

**CSE 517      Agent-Based Systems (4)**

Introduction to intelligent agents and multiagent systems, distributed problem solving and planning, search algorithms for agents, interaction and cooperation, action and behavior modeling of agents, learning and knowledge acquisition, applications.

**CSE 521      Software Requirements Engineering (4)**

This course studies the mechanisms underlying programming decisions and presents systematic procedures for making these decisions. The procedures studied cover the design of iterative loops and sequence statements, along with general heuristics that represent problem solving strategies. The course uses the formalism of relational algebra. The relational algebra is covered in class.

**CSE 522      Objective Oriented Analysis and Design (4)**

This course covers the methodologies of object oriented (OO) modeling during the planning, analysis and design stages of software systems development. Predominate methodologies and techniques such as the Unified Modeling Language (UML) will be surveyed. OO programming using an OO language such as C++ or Java is not covered in this course. Topics include both process oriented issues, such as the application of use case modeling during OO requirements analysis, and product-oriented issues, such as the definition of an OO design using class diagrams.

**CSE 537      Systematic Software Development (4)**

A project-driven, language-independent, top-down software development method based on specifications and refinement of every step of design. It involves user-defined Abstract Operations and Abstract Data Types. A variant of the Vienna Development Method (VDM) is used. Specification techniques are introduced gradually, in step with a nontrivial term project. An emphasis is placed on practical applications of the method. Offered winter.

**CSE 538      Software Verification and Testing (4)**

Systematic methods of software verification, testing and analysis and the supporting CASE tools. Topics: principles of formal verification, static program analysis and dynamic program analysis (testing and debugging). A significant part of the course is its lab component.

**CSE 540      Software Quality Assurance (4)**

Intended for students who have mastered fundamental design and programming skills. The impact of software design and construction techniques on structural quality for both object-oriented and traditional decomposition. The relationship between software structure and software maintainability (modifiability and readability) and reusability is emphasized.

**CSE 542      Rapid Prototyping and Component Software (4)**

Methodologies for rapid prototyping and component software use. Topics include: platforms for rapid prototyping and object-oriented software development, available software components, object request brokers (COM/CORBA/OLE), data modeling, transaction processing and federated database, client and server web technologies. A theory and project-oriented course.

**CSE 549      Multimedia and Networks (4)**

Multimedia system requirements, data representation and compression, input/output and devices, network load implications, multimedia authoring, web design and presentation of multimedia, collaborative multimedia sessions, graphical user interface design using Tcl/Tk and Java.

**CSE 555      Computer Graphics I (4)**

Introduction to the concepts underlying two- and three-dimensional computer graphics. Topics include an overview of graphics hardware and software, capabilities and algorithms of a two-dimensional raster graphics package, basics of three-dimensional raster graphics, algorithms for simple three-dimensional raster graphics, introduction to computer animation.

**CSE 556      Computer Graphics II (4)**

Continuation of CSE 555. Topics covered include realistic rendering techniques (hidden line/surface, lighting, shading, texture mapping); mathematics and data structures for curve, surface and solid representation (including B-spline and Bezier techniques); advanced animation techniques (key-frame animation, morphing).

**CSE 571      Design of Embedded Software Computer Systems (4)**

Design of intelligent embedded systems using a modern microcontroller programmed by a high-level object-oriented language such as Java and the JStamp microcontroller. Intelligent methods for embedded systems such as fuzzy logic and image processing are introduced. Project-oriented course. Offered winter.

Prerequisite: CSE 470/570 or equivalent.

**CSE 581      Data Mining and Knowledge Discovery (4)**

This course provides a background in data warehousing technologies, and their applications in knowledge discovery using data mining algorithms. Data preparation, reduction and transformation concepts are presented as integral component of the discovery life cycle. Data mining algorithms, including association rules, decision trees, link analysis, clustering, regression and neural models are covered. The theoretical concepts presented are supplemented with adequate hands-on experience with software tools for data mining.

**CSE 582      Information Retrieval (4)**

Introduction, information retrieval models, retrieval evaluation, query languages, query operations, text and multimedia documents, indexing and searching, visualization, web search engines.

**CSE 583      E-Commerce and ERP (4)**

This course focuses on the evolving technologies on the world wide web that support new models of business. These models include 1) electronic commerce with concerns of fault tolerance, security, and 24x7 availability and 2) ERP with concerns of financial, human resource and manufacturing systems integrating together into inter-company supply chain systems.

**ELECTRICAL AND SYSTEMS ENGINEERING COURSES****EE 316      Circuits and Systems (4)**

Transform domain analysis: Laplace transform methods, transfer functions and impedance concepts. Multi-loop Mesh and Nodal analysis. Time domain analysis: transient and forced response of first- and second-order circuits & systems; natural and forced behavior of first-, second-, and higher-order systems. Relationship between pole-zero pattern and dynamic response. Use of PSPICE. With laboratory. Offered: Fall and Winter.

Prerequisites: APM 255, EGR 240 and major standing.

**EE 325      Signals and Systems (3)**

Introduction to signals and systems; convolution, correlation, and their applications. Frequency domain analysis using Fourier series and Fourier transform techniques. Frequency response, Bode plots, bandwidth, energy and power spectral density. Analysis of filters and applications, transformation between LP, HP, BP & BS filters. State-space model, eigenvalue analysis, similarity transformation, applications. Offered fall and winter.

Prerequisite: EE 316 and major standing.

**EE 327            Electronic Circuits and Devices (4)**

Solid state electronics, energy band diagram, solid-state diode. Characteristics and models of diodes, diode applications, rectifiers, wave-shaping circuits-clipping, clamping and circuit design, photo-diodes and solar cells. Bipolar transistors: regions of operation, I-V characteristics, large and small signal models analysis. Circuit design with non-linear devices. With labs emphasizing device characteristics and circuit design. Offered fall and winter.

Prerequisite: EE 316 and major standing.

**EE 352            Electromagnetics and Electromechanism (4)**

Fundamentals of electromagnetic fields, waves and Maxwell's equations. Magnetic circuits and single/poly-phase transformers. Electromagnetic and electromechanical devices. DC motors, drives and position/speed control circuits. Basic characteristics analysis of AC motors and generator. With laboratories. Offered winter.

Prerequisite: EE 316, MTH 254 and major standing.

**EE 378            Design of Digital Systems (4)**

Development of components and techniques needed to design digital circuits and systems for controllers, signal processors and related applications. Combinational and sequential logic design: circuit, logic, register, transfer and functional levels. Applications include system design using programmable arrays and a hardware descriptive language. With laboratories. Offered fall, winter.

Prerequisites: EGR 240 and major standing.

**EE 384            Electronic Materials and Devices (4)**

Basic quantum mechanics fundamental to the understanding and development of integrated circuits and systems. Semiconductor device physics; charge carriers and conduction mechanisms, energy band diagrams. Theory of the metal semi-conductor contacts: scrotsky diodes, and Ohmic contacts. Unipolar devices, threshold voltage control, MOSFET characteristics, circuit models and regions of operation, and SPICE simulations. Offered fall.

Prerequisite: Major standing.

**EE 422            Robotic Systems and Control (4)**

Introduction to robotic systems and applications. Robotic forward and inverse kinematics. Task and path planning with motion controls. Jacobian matrix, differential motion and robotic statics. Redundant robots, mobile robots and multi-robot coordinated systems. Computer simulation and visualization of industrial robot workcells.

Offered fall or winter. Prerequisite: EE 325.

**EE 426            Advanced Electronic Circuit Designs (4)**

Design and analysis of analog circuits. Analysis and design of differential amplifiers; current sinks and sources, current mirrors. Design of signal generators, multi-vibrators and function generators. Emphasis on analysis and design through a sequence of laboratory experiments and short projects. Offered winter.

Prerequisite: EE 327.

**EE 428            Industrial Electronics (4)**

Applications of advanced electronics to manufacturing processes. Analysis and design considerations for industrial electronic systems. Operation of programmable controllers. Modeling and characteristics of integrated process elements. Transducers, signal conditioning and transmission; analog and digital controllers; thyristor commutation techniques; power supplies and interfaces, DC and AC drives and motor control circuits. With laboratory and design projects. Offered winter.

Prerequisite: EE 327.

**EE 431            Automatic Control Systems (4)**

Mathematical modeling of dynamic systems, transfer functions, state-space representation; time-domain transient and steady-state response analyses; stability theory and stability criteria; root-locus analysis and design; frequency-response analysis and designs; design of proportional, integral and derivative controllers, compensation networks. Use of Matlab and Simulink.

With laboratory. Offered fall and winter.

Prerequisite: EE 325.



**EE 433 Control System Design (4)**

Design methodology for control systems via state space approach; modeling and transformation. Physical systems, time response, stability, transition matrix, state feedback control. Integrated system design, state observers. Analytical and computer simulations. Course includes a project to model, design, implement and evaluate a controller for a practical system. Offered fall.  
Prerequisite: EE 431.

**EE 437 Communication Systems (4)**

Basic modules in communications systems and their functions; signal characteristics: bandwidth, power and energy; filtering; functions of the basic modules, filters, mixers, modulators, demodulators, PLL; amplitude modulation; frequency modulation; sampling and quantization. Offered: winter, fall.  
Prerequisites: EE 325 and EE 327.

**EE 441 Electromechanical Energy Conversion (4)**

Advanced study of electromagnetic systems. The principle of duality between magnetic and electric circuits. Necessary conditions for electromechanical energy conversion. Modeling, equivalent circuits and steady-state/transient analyses of DC and AC electric machines. Speed control of DC and AC motors with industrial applications. With laboratories.  
Prerequisite: EE 352.

**EE 443 Electric and Magnetic Fields (4)**

Waves and phasors, vector analysis, electrostatics and magnetostatics, Maxwell's equations, time varying fields, plane waves, wave propagation and transmission, transmission lines, radiation and introduction to antennas.  
Prerequisites: MTH 254, EE 352 and senior standing.

**EE 445 Electromagnetic Engineering (4)**

Electromagnetic theory with applications. Diffraction, radiation, propagation, guided waves, optical transmission and resonant cavities. Offered winter.  
Prerequisite: EE 443.

**EE 446 Introduction to Electromagnetic Compatibility (4)**

Review of EM basics related to EMC applications. Analysis of EMI sources and receivers. Signal spectra, conducted and radiated emissions. Transmission line cross-talk. Introduction to shielding, filtering and grounding. Electrostatic discharges (ESD). Circuit and system immunity. Signal spectra, conducted and radiated emissions. EMC requirements for component and system levels. US and European standards and their origin. Automotive EMC standards. EMC issues in vehicle multiplexing communication. With laboratory.  
Prerequisites: EE 327, EE 378 and EE 433.  
Recommended corequisite: EE 437.

**EE 450 Satellite-based Positioning System (4)**

Introduction to the fundamentals of satellite-based positioning systems with an emphasis on the Global Positioning System (GPS). Understanding of the GPS satellite constellation, coordinate systems, timing standards and GPS signal structure. Determination of position from the range measurements for different modes of positioning. Introduction to various ranging error sources and mitigation techniques. Impact of ranging errors and satellite geometry on 3-dimensional position error. Offered fall or winter.  
Prerequisites: EE 325 and EE 437.

**EE 458 Electrical Energy Systems (4)**

Generation, transmission and distribution of electrical energy. Analysis and design of three-phase circuits, representation of power systems and per unit normalization, symmetrical components and stability, unsymmetrical faults. Computer-aided problem solving included. Offered winter.  
Prerequisite: EE 325.

**EE 463 Foundations of Computer-Aided Design (4)**

Computer-aided design as the cornerstone of computer-aided manufacturing. Presentation and exploration of "generic" CAD architecture. Mathematical representations of CAD primitives, surfaces and solids and manipulation. Comparison of wire-frame, surface, 2-1/2 D and solid models. IGES, STEP, CALS, and DXF standards Description of "feature based CAD" and the CAD manufacturing link.  
Prerequisite: Major standing.

**EE 469 Computer Simulation in Engineering (4)**

Simulation as modeling tool for discrete-event and continuous systems, general principles of simulation, statistical models, input modeling, random variable generation, model building using a commercial simulation language, model verification and validation, determination of run length, output analysis, variance reduction techniques. Design and optimization of production service systems. Offered winter.

Prerequisites: Major standing and EE 325.

**EE 470 Microprocessors-based Systems Design (4)**

Application of microprocessors and microcomputers to the solution of typical problems; interfacing microprocessors with external systems such as sensors, displays and keyboards; programming considerations, microcomputer system and memory system design. A laboratory, design course; several short design projects and one large design project. Written report and oral presentation required. Credit cannot be earned for both CSE 470 and EE 470. Offered fall, winter.

Prerequisite: EE 378.

**EE 472 Microcomputer-based Control Systems (4)**

Computer-aided engineering, analysis, design, evaluation of control systems. Microcomputer/microprocessor-based hardware and software development of digital controllers, estimators, filters. Data acquisition, signal conditioning and processing circuits, graphics displays. On-line system level and board-level microcomputer-based control experiments. Laboratory and projects emphasize real-time applications, programming and hardware integration. With laboratory. Offered winter.

Prerequisites: EE 327 or EE 473, and EE 431.

**EE 473 Automotive Electronics (4)**

Review of basic automotive electronic devices and circuits. Characteristics, models and interfacing of sensors and actuators. Basic electronic and electromechanical controllers; engines, transmission, brake, suspension and traction. Battery system supply. Ancillary system components: safety, auto theft, diagnostics, collision. With laboratory. (Not for credit for electrical engineering majors).

Prerequisite: Major standing.

**EE 475 Automotive Mechatronics I (4)**

Overview of mechatronics; modeling, simulation, characterization and model validation of electro-mechanical devices; introduction to computer-aided software; basic automotive sensors; basic actuators and power train devices; principles of automotive and industrial electronic circuits and control systems (analog and digital); principles of product design; mechatronics case studies. With laboratory.

Prerequisite: EE 325.

**EE 485 VLSIC Circuits and Systems Design of Digital Chips (4)**

Techniques for rapid implementation and evaluation of Very Large Scale Integrated Circuits (VLSIC). Behavioral, functional, logic, circuit, device, physical IC fabrication, layout issues. CMOS and pseudo nMOS technology, inverters, logic and transmission gates, switching characteristics and processing. Reliability, yield and performance estimation. Students design Application Specific Integrated Circuits (ASICs) using CAD tool suites. Offered winter.

Prerequisite: EE 327.

**EE 487 Integrated Electronics (4)**

Modern microelectronics processes and fabrication of integrated circuits. Crystal growth, wafer preparation, photolithography, dielectric and polysilicon film deposition, epitaxial growth, oxidation, diffusion, ion implantation, etching, metallization and integrated circuits layout principles. Introduction to MOS-based and bipolar transistor-based microcircuits design and fabrication. Fabrication processing simulation using SUPREM. With laboratory and projects.

Prerequisite: EE 384.

**EE 490 Senior Project (2 to 4)**

Independent work on advanced laboratory projects. Topic must be approved prior to registration. May be taken more than once.

**EE 491 Senior Design (4)**

Capstone design project selected from electronics, communications, instrumentation and measurement, and control systems. Develops system approach to design: preparation of specifications, automotive and industrial electronics, scheduling, modeling, simulation, and technological, financial and environmental aspects. Teamwork is emphasized. Prototyping, testing and completion of the project is required. Presentation of results orally in class and in documented final report.

Prerequisites: EE 327, EE 378, and either EE 352 or EE 443.

Corequisite: EE 437 or EE 431.

**EE 494 Independent Study (2 to 4)**

Advanced individual study in a special area. Topic must be approved prior to registration. May be taken more than once.

**EE 495 Special Topics (2 to 4)**

Advanced study of special topics in engineering. May be taken more than once.

**INDUSTRIAL AND SYSTEMS ENGINEERING****ISE 150 Everyday Engineering (4)**

For non-science majors, a practical introduction to engineering and science in everyday life. This course considers objects from our daily environment and focuses on their principles of operation, histories and relationships to one another. ISE 150 emphasizes concepts from mechanical and thermal objects. *Satisfies the university general education requirement in the knowledge applications integration area.*

Prerequisite: Completion of the general education requirement in the writing foundation area.

**ISE 318 Engineering Statistics (3)**

Simple linear regression, multiple linear regression, logistic regression models. Setting-up of variable data and attribute data control charts. Propagation of error, Design of Experiments - single factor model, randomized block design, full factorial design. Introduction to non-parametric statistics. Introduction to multivariate analysis and time series analysis.

Offered fall.

Prerequisite: EGR 260 and major standing.

**ISE 422 Robotic Systems (4)**

Overview of industrial robotic manipulators, their components and typical applications. Kinematics of robots and solution of kinematic equations. Trajectory planning and the Jacobian matrix. Robot programming languages and task planning. Laboratory experience in the development and implementation of a kinematic robot controller using a reconfigurable industrial manipulator. Demonstrations and applications using industrial robots. With laboratory. Credit cannot be received for ISE 422 and ME 478. (Offered fall).

Prerequisite: Major standing.

**ISE 464 Design for Manufacturing and Assembly Analysis (4)**

Role of a geometric modeler in design and manufacturing. Representation of wire-frame, surface, solid models and feature based models. Different standards for representation of geometric data. Analysis of a design for DF(x) principles that include manufacturing, assembly, disassembly and environment. With laboratory.

Prerequisite: Major standing.

**ISE 469 Computer Simulation in Manufacturing (4)**

Simulation as modeling tool for discrete-event systems, general principles of simulation, statistical models, input modeling, random variable generation, model building using a commercial simulation language, model verification and validation, determination of run length, output analysis, variance reduction techniques. Design and optimization of production service systems. With laboratory. Offered winter.

Prerequisite: Major standing.

**ISE 477 Concurrent Engineering (4)**

Principles of concurrent engineering including: manufacturing competitiveness, performance indicators, life-cycle management, strategic technology insertions, process re-engineering, cooperative work teams, supplier organization, information modeling and product realization taxonomy. Credit cannot be received for both ISE 477 and ME 477.

Prerequisite: Major standing.

**ISE 483            Production Systems (4)**

Design issues to control the flow of material in manufacturing systems from forecast to finished product. Topics include aggregate planning and disaggregation to a master schedule, inventory control, MRP, JPT systems, scheduling and sequencing, project planning and resource balancing, philosophy of lean manufacturing, theory of constraints and supply chain.

Offered fall.

Prerequisite: Major standing.

**ISE 484            Flexible Manufacturing Systems (4)**

Technologies and concepts that make manufacturing systems flexible: CAM, Group Technology (GT), Computer Numerically Controlled (CNC) machining centers, robotics, automated warehousing (AS/RS), vision systems, material transport, Programmable Logic Controllers (PLC). Introduction to lean manufacturing. With laboratory. Credit cannot be received for both ISE 484 and ME 473. Cross-listed with ME 473.

Offered winter.

Prerequisite: Major standing.

**ISE 485            Statistical Quality Control (4)**

Fundamentals of statistical quality control, control charts for variable and attribute data, cusum charts, DNOM charts, estimation of process capability, statistical tolerancing and sampling plans. Fundamentals of design of experiments and application to product/process design. Taguchi's approach to robust design and related topics.

Offered winter.

Prerequisite: Major standing.

**ISE 487            Foundations of Systems Engineering (4)**

Techniques for generation, analysis and verification of traceable product requirements. System performance and structural modeling using object, behavioral and other models. Techniques for analysis of system for serviceability, reliability, maintainability and testability. System alternative trade-off study techniques. System life cycle and other tools for implementation of systems engineering techniques.

Prerequisite: Major standing.

**ISE 490            Senior Project (2 to 4)**

Independent work on advanced laboratory projects. Topic must be approved prior to registration. May be taken more than once.

**ISE 491            Senior Design (4)**

Capstone design project selected from manufacturing systems, automotive or industrial systems, instrumentation and measurement, and control systems. Develops system approach to design: preparation of specifications, scheduling, modeling, simulation, and technological, financial and environmental aspects. Teamwork is emphasized.

Prerequisites: ISE 484, ISE 487.

Corequisite: ISE 483, 469.

**ISE 494            Independent Study (2 to 4)**

Advanced individual study in a special area. Topic must be approved prior to registration. May be taken more than once.

**ISE 495            Special Topics (2 to 4)**

Advanced study of special topics in engineering. May be taken more than once.

**MECHANICAL ENGINEERING****ME 308            Computer-Aided Design (3)**

Use of engineering software in design and analysis such as: GD&T; solid modeling of machine parts, projection views layout, parametric and knowledge-based design, assembly design, sheet metal design, build of materials, structure design, introduction of finite element method, engineering optimization, space analysis and clash detection, mechanism and kinematics of assemblies, project management. Offered fall, winter.

Prerequisite: EGR 280, Corequisite: ME 361 and major standing.

**ME 322            Engineering Mechanics (4)**

Statics and dynamics of particles and rigid bodies: analysis of trusses, frames, beams, centroids and moments of inertia; kinematics, Newton's Second Law, work and energy, linear and angular impulse and momentum. With laboratory.

Prerequisite: EGR 280 and major standing.

**ME 331            Introduction to Fluid and Thermal Energy Transport (4)**

The fundamentals of fluid mechanics and heat transfer, conservation and momentum principles, viscous and inviscid flow, laminar and turbulent flow, introduction to viscous and thermal boundary layer theory, one-dimensional conduction heat transfer and characteristics and dimensionless correlations of convection heat transfer, applications to engineering problems. Laboratory emphasizes experimental design. Offered fall, winter.

Prerequisite: EGR 250; MTH 254, Corequisite: EGR 280 and major standing.

**ME 361            Mechanics of Materials (4)**

Introduction to the mechanics of deformable bodies: distribution of stress and strain in beams, shafts, columns, pressure vessels and other structural elements, factor of safety, yield and fracture criteria of materials with applications to design. With laboratory including two-dimensional truss and beam design on computer. Offered fall, winter.

Prerequisite: ME 322. Corequisite: ME 372 and major standing.

**ME 372            Properties of Materials (4)**

The atomic, molecular and crystalline structure of solids, including a description of x-ray analysis, metallography and other methods of determining structure; correlation of structure with the electric, magnetic and mechanical properties of solids. With laboratory. Offered fall, winter.

Prerequisites: CHM 143, PHY 152 and major standing.

**ME 421            Vibrations and Controls (4)**

Linear free and forced response of one and multiple degree of freedom systems. Equations of motion of discrete systems. Vibration isolation, rotating imbalance and vibration absorbers. Transfer function and state-space approaches to modeling dynamic systems. Time and frequency domain analysis and design of control systems. Use of MATLAB. Offered fall.

Prerequisites: ME 322, APM 255.

**ME 423            Acoustics and Noise Control (4)**

Introduction to vibrations and waves; plane and spherical acoustic waves; sound generation, transmission and propagation; sound intensity and power; principles and definitions of noise control; sound and hearing; hearing conservation; community, building and industrial noise control; measurement of sound.

Prerequisite: ME 331.

**ME 438            Fluid Transport (4)**

Continued study of the fundamentals of fluid mechanics and their applications, angular momentum principle; generalized study of turbomachines, potential flow of inviscid fluids, laminar and turbulent boundary layer theory, dimensional analysis and similitude, compressible flow. With laboratory emphasizing engineering design. Offered fall.

Prerequisite: ME 331.

**ME 439            Computational Fluid Dynamics (4)**

Overview of the physical and mathematical foundations of computational fluid dynamics (CFD). Practical numerical solution techniques for the Navier-Stokes equations; Finite difference and finite volume methods are covered, including discretization, stability analysis, time stepping and multigrid methods. Discussion of grid generation and complex geometries. Introduction to commercial CFD software (Fluent/Gambit). Students are expected to complete several computer projects. Offered winter.

Prerequisite: ME 331.

Corequisites: ME 438 or approval of instructor; knowledge of a programming language.

**ME 443            Polymeric Materials (4)**

Fundamentals of plastic materials. Terminology and nomenclature for plastics. General topics dealing with plastics, such as structure, morphology, properties, etc. Focus on mechanical and physical properties and mechanical behavior of plastics. Technology related to plastics processing, testing, designing and recycling is introduced.

Prerequisite: ME 372.

**ME 444           Plastics Processing Engineering (4)**

Polymeric materials and their manufacturing related properties. Principles and design of extrusion, post extrusion processes, and molding and forming processes. Rheological behavior of polymer, meltflow characteristics, and modeling and simulation. With laboratory.

Prerequisites: ME 331, ME 443.

**ME 445           Plastics Product Design (4)**

Design of plastic/composite products based on strength, stiffness, creeping, impacting, chemical and environmental deterioration. Effects of processing on part quality and performance. Design of plastic parts for manufacturability. Prototyping plastic parts. Design of plastic parts for joining and assembly. Use of CAD/CAM/CAE software for structural analysis and design optimization.

Prerequisite: ME 443.

**ME 448           Thermal Energy Transport (4)**

Continued study of properties and descriptions of conduction, convection and thermal radiation heat transfer; thermal boundary layer theory; forced and natural convection, heat transfer correlations. Thermodynamics of thermal radiation, radiation intensity, surface properties and energy exchange. Laboratory emphasizes experimental design and development of empirical relationships. Offered winter.

Prerequisite: ME 331.

**ME 449           Numerical Techniques in Heat Transfer and Fluid Flow (4)**

Overview of practical numerical solution techniques. Major emphasis is on concepts, methodology, and physics associated with the formulation of the discretization equations appropriate for the representation and solution of linear and nonlinear partial differential equations governing heat transfer and fluid flow. Personal and mainframe computers will be used for the solution of a variety of engineering and design problems.

Prerequisite: ME 331.

**ME 454           Solar and Alternate Energy Systems (4)**

The analysis and design of energy conversion systems. Principles of optimum power transfer and efficiency. Availability analysis of systems for heating, chemical conversion and electrical generation. Emphasis on solar applications and alternative energy technology. Includes design project(s). With laboratory.

Prerequisite: ME 331.

**ME 456           Energy Systems Analysis and Design (4)**

The analysis and design of thermodynamic systems. Applications include thermodynamic cycles for power; thermodynamics of non-reacting mixtures including psychrometry; concepts of available energy and application to process/system optimization; the thermodynamics of reacting mixtures, including chemical equilibrium concepts, applied to combustion systems. Design project (and/or laboratory) required. Offered winter.

Prerequisites: EGR 250 and major standing.

**ME 457           Internal Combustion Engines I (4)**

Introduction to thermodynamics, fluid mechanics and performance of internal combustion engines including: introduction to engine types and their operation, engine design and operating parameters, ideal thermodynamic cycles, thermodynamics of actual working fluids and actual cycles, gas exchange processes, heat losses, performance, exhaust gas analysis and air pollution. With laboratory. Offered fall.

Prerequisites: ME 456, senior standing.

**ME 461           Analysis and Design of Mechanical Structures (4)**

Methods of advanced mechanics of materials applied to the design of mechanical structures. Topics include stress and strain analysis, force equilibrium, deformation compatibility, Castigliano's Theorem, torsion of noncircular cross-sections, torsion of thick-walled tubes, shear centers, nonsymmetric bending, and thick-walled cylinders. Offered fall.

Prerequisite: ME 361.

**ME 467      Optical Measurement and Quality Inspection (4)**

Topics include the state-of-the-art optical methods such as holography, shearography, moire, three-dimensional computer vision, electronic speckle pattern interferometry and laser triangulation; with applications to measurement of displacement, vibrational mode shapes, material properties, residual stresses, three-dimensional shapes, quality inspection and nondestructive testing. Offered fall and winter.

Prerequisites: ME 361, and senior standing.

**ME 472      Materials Properties and Processes (4)**

Study of mechanical behavior of real engineering materials and how they influence mechanical design. True stress/strain properties of materials, plastic deformation and fracture of materials, failure theories, fatigue damage under cyclic loading, creep and high temperature applications. Material properties of engineering metals, ceramics and composites. Behavior of materials during and after manufacturing processes such as stamping, drawing, extrusion, etc. Offered winter and summer.

Prerequisite: ME 361, ME 372.

**ME 473      Flexible Manufacturing Systems (4)**

Technologies and concepts that make manufacturing systems flexible: CAM, Group Technology (GT), Computer Numerically Controlled (CNC) machining centers, robotics, automated warehousing (AS/RS), vision systems, material transport, Programmable Logic Controllers (PLC). Introduction to lean manufacturing. With laboratory. Credit cannot be received for both ISE 484 and ME 473. Cross-listed with ISE 484. Offered winter.

Prerequisite: Major standing.

**ME 474      Manufacturing Processes (4)**

Fundamentals and technology of machining, forming, casting and welding. Mechanics of cutting. Molding of polymers. Tolerancing and surface topography. Manufacturing considerations in design. Economics of manufacturing. Process assembly and product engineering. Offered fall and winter.

Prerequisite: Senior standing.

**ME 475      Lubrication, Friction, and Wear (4)**

Study of fundamental wear mechanisms including: adhesive, abrasive, corrosive and surface fatigue. Boundary and hydrodynamic lubrication. Friction theories. Surface topography characterization. Applications: journal and ball bearings, gears and engine components. Offered fall and spring.

Prerequisites: ME 372 and senior standing.

**ME 476      Product and Process Development (4)**

Topics include traditional and nontraditional approaches in product and process development and optimization, including conventional experimental mechanics and acoustic test methods. The Taguchi approach and other methods for design of experiments are used to study the interaction of variables and to attain optimization.

Prerequisites: EGR 260. Corequisite: ME 486 or ME 487.

**ME 477      Concurrent Engineering (4)**

Principles of concurrent engineering including: manufacturing competitiveness, performance indicators, life-cycle management, strategic technology insertions, process re-engineering, cooperative work teams, supplier organization, information modeling and product realization taxonomy. Credit cannot be received for both ME 477 and SYS 477.

Prerequisite: Senior standing.

**ME 478      Robotic Systems (4)**

Overview of industrial robotic manipulators, their components and typical applications. Kinematics of robots and solution of kinematic equations. Trajectory planning and the Jacobian matrix. Robot programming languages and task planning. Laboratory experience in the development and implementation of a kinematic controller using a reconfigurable industrial manipulator. Demonstrations and application using industrial robots. Offered fall.

Prerequisite: EGR 280 and major standing.

**ME 482            Fluid and Thermal Systems Design (4)**

Study of systems involving fluid and thermal phenomena such as energy conversion, and fluid and thermal energy transport. Using fundamentals studied in prerequisite courses, component and system analyses, for the purpose of design optimization, are emphasized using integral, differential and lumped-parameter modeling techniques. The course focuses on the design process using design-oriented laboratory projects. Offered fall.

Prerequisite: ME 331.

**ME 484            Automotive Engineering Design I (4)**

Tire forces and moments, rolling resistance of tires, tractive effort and longitudinal slip, tires on wet surfaces, ride properties of tires; equation of motion and maximum tractive effort, aerodynamic forces and moments, power plant and transmission characteristics, prediction of vehicle performance, operating fuel economy, engine and transmission matching, braking performance. Offered fall.

Prerequisites: ME 322; senior standing.

**ME 486            Mechanical Systems Design (4)**

Study of systems involving mechanical elements. Includes stress, strength, deflection, safety, economic and social considerations, optimization criteria and strategies. Analysis and design of fasteners, springs, welds, bearings, power transmitting elements and complex structures subjected to static and/or dynamic loads. Includes major design project. Offered winter and spring.

Prerequisites: ME 308 and ME 361.

**ME 487            Mechanical Computer-Aided Engineering (4)**

Introduction to the use of state-of-the-art finite element technology in mechanical engineering analysis. Fundamentals of computer graphics, solid modeling, finite element modeling and interactive design. Analysis and evaluation of linear static and dynamic mechanical systems. Includes design project(s) in various topics. Offered fall and summer.

Prerequisites: ME 308 and ME 361.

**ME 488            Mechanical Computer-Aided Manufacturing (4)**

Use of CATIA in various aspects of manufacturing processes. GD&T and tolerance analysis, surface design, managing cloud points and reverse engineering, simulation of kinematics of machine tools, 3-axis surface machining, mold tooling design, CMM and measurement data analysis, assembly simulation and structural analysis, rapid-prototyping. Includes design projects in various topics. Offered winter.

Prerequisites: ME 308, ME 361, CATIA fundamentals or permission from instructor.

**ME 489            Fasteners and Bolted Joints (4)**

A systems approach to the analysis, design and reliability of bolted joints under static and dynamic forces. System variables include the fastener, the joint, assembly tool, control method, post assembly loads and relaxation, and environmental factors. Laboratory experiments to illustrate torque tension relationship, role of friction, use of ultrasonics, effect of non-parallel contact, and elastic interaction in bolted flanges. Offered winter.

Prerequisites: ME 486 or equivalent, senior standing.

**ME 490            Senior Project (3 or 4)**

Work on advanced design and research projects. Topic must be approved prior to registration. If taken as an alternative to ME 492, student must work as part of a team of at least two people. May be taken more than once.

Prerequisites: Senior standing and approval of project proposal by ME Dept.

**ME 492            Senior Mechanical Engineering Design Project (4)**

Multi-disciplinary team experience in engineering design, emphasizing realistic constraints such as safety, economic factors, reliability, aesthetics, ethics and societal impact. Projects will be supervised by engineering faculty. Offered fall, winter.

Prerequisites: ME 308, ME 331, ME 361 and senior standing.

**ME 494            Independent Study (2 to 4)**

Advanced individual study in a special area. Topic must be approved prior to registration. May be taken more than once.

**ME 495            Special Topics (2 to 4)**

Advanced study of special topics in engineering. May be taken more than once.



# GENERAL STUDIES

416 VARNER HALL

(248) 370-3229

**Director:** *Carole L. Crum*

**Faculty Council for General Studies:** *Henry Aigbedo, assistant professor, Decision Information Science; Addington Coppin, professor, Economics; Scott Crabill, special instructor, Communication; Kathleen Galloway, assistant professor, Physical Therapy; Jennifer Heisler, assistant professor, Communication; Linda Hildebrand, assistant professor, Kresge Library; Alice Horning, professor, Rhetoric/Linguistics; Michael Long, associate professor, Human Resource Development; Jerry Marsh, special instructor, Computer Science; Mildred Merz, associate professor, Kresge Library; Subbaiah Perla, professor, Mathematics and Statistics; Ann Pogany, assistant professor, Kresge Library; Erica Ruegg, assistant professor, Human Development and Child Study*

## The Bachelor of General Studies

The Bachelor of General Studies degree (B.G.S.) is a university-wide baccalaureate program that offers maximum flexibility and opportunity for student decision making about courses of study at Oakland University. The degree is primarily intended for students wishing to create a program to meet their individual goals through interdisciplinary study.

Students entering the General Studies program design a program of study utilizing courses from many departments to prepare them for a particular job or career choice. Students may select courses from any field of study offered by an academic department, subject to prerequisites and policies set by the individual departments. This program offers students the opportunity to plan a unique and challenging academic program in cooperation with a General Studies faculty adviser.

Students changing major into B.G.S. must meet the program requirements described in the catalog extant at the time of the change, or they may meet program requirements described in a subsequent catalog. Any catalog that students are following must not be more than six years old at the time of graduation.

Frequently, students seeking the degree have earned academic credits from other colleges and have been encouraged by their employers to pursue a baccalaureate degree. The General Studies program has flexible policies on transfer credits from other institutions, and it provides a personalized program to meet the educational needs of individuals and employers.

Students applying to the General Studies program are first admitted to pre-B.G.S. status. Students will be granted major standing upon approval of their plan of study and supporting rationale by the General Studies Faculty Advising Committee. The B.G.S. program is administered by the Department of General Studies (520 O'Dowd Hall, 248-370-3229, [bgs@oakland.edu](mailto:bgs@oakland.edu)).

Because the Bachelor of General Studies is an alternative to a traditional degree, it is not permissible to seek a double degree with the Bachelor of General Studies serving as one of those degrees.

## Two-Plus-Two program for associate degree holders

The General Studies program allows students to combine broad liberal arts and professional courses from the university curriculum with associate degrees from Michigan community colleges. The two-plus-two program provides for transfer of up to 62 semester credits from accredited two-year community colleges in Michigan. Students with associate degrees in any area except nursing may qualify for the two-plus-two General Studies

program. Holders of associate degrees in nursing are subject to a course by course evaluation.

The program requires that courses accepted for transfer must have a grade of C or above, that at least 12 semester credits have been earned in liberal arts courses, and that all course work has been taken at accredited institutions. Certain developmental courses may be subject to individual evaluation. For additional information, see the *Transfer student information* section of the catalog.

## Advising

Advising is central to the program as students design an individualized and unique program of study based upon their interests and needs. Students must follow a specific advising procedure as follows:

1. Meet with a General Studies counselor in a preliminary appointment. The counselor will explore the suitability of the program to student needs and interests. The counselor will also discuss student eligibility to enter the program. Students entering the program through a change of major or through the readmission process must have a cumulative grade point average of at least 2.00. Students on academic probation will not be considered for the program.
2. Be assigned a faculty adviser. When pre-B.G.S. has been declared as a program of study, students will again meet with the counselor to receive the plan of study form and rationale guidelines. Students and the counselor will mutually select a faculty adviser.
3. Develop a plan of study and rationale with the faculty adviser. Students will initiate a meeting with the faculty adviser to discuss their goals and the courses that may help achieve those goals. In addition to creating a plan of study, students will write a rationale for course selection.
4. Attain committee approval. After the faculty adviser approves them, the plan of study and rationale are returned to the General Studies office and sent to the Faculty Advising Committee for approval. When the plan of study and rationale have been approved by the committee, students will be granted major standing.
5. Make substitutions as needed to the plan of study. Students who want to take courses other than those listed on their approved plans of study must have the consent of their faculty adviser or a General Studies counselor. Plan of Study Substitution forms are available from the General Studies office or faculty advisers. They must be submitted to the General Studies office.

## Requirements for the degree in Bachelor of General Studies

To earn the Bachelor of General Studies degree, students must meet the following requirements:

1. Successfully complete at least 24 credits at Oakland University as an admitted candidate for the Bachelor of General Studies degree, excluding courses used to meet the writing proficiency requirement or the general education requirement. Candidacy is authorized by the university and the Faculty Council for General Studies when a student's plan of study and supporting rationale have been approved by the General Studies Faculty Advising Committee. If the plan of study is not submitted in a timely manner, the credits in any current semester may be excluded from the plan of study. (See *Advising* above for additional information.)
2. Complete the general education requirements. (See *Undergraduate degree requirements*.)

3. Complete a minimum of 124 semester credits.
4. Complete 32 of those credits at the 300 or 400 level.
5. Complete 32 credits at Oakland University; complete the last 4 credits toward the degree at Oakland.

### **Concentrations or minors**

General Studies students may wish to develop programs that include concentrations or minors offered by other academic schools or departments within the university. Approximately 65 minors and concentrations are available to General Studies students; a complete listing is available from the General Studies office. Forms for written approval of concentrations or minors are also available in the General Studies office (520 O'Dowd Hall).

Students should consult a General Studies counselor to determine policies and procedures on seeking minors or concentrations.

### **Conciliar honors**

Conciliar honors are awarded to General Studies students by the Faculty Council for General Studies.

There are two ways in which students may earn conciliar honors. Students who have cumulative grade point averages of 3.60 or better are automatically eligible for conciliar honors. Students may be nominated for honors if they have cumulative grade point averages between 3.30 and 3.59; students may nominate themselves or be nominated by a faculty adviser. Written nominations, accompanied by faculty recommendations, should be made on the basis of excellence in scholarship, appropriate community and university experience, and/or achievement of academic distinction while overcoming extreme adversity. Nominations will be considered by the advising committee and will be forwarded to the faculty council for final approval.

# SCHOOL OF HEALTH SCIENCES

363 HANNAH HALL

(248) 370-3562  
Fax: (248) 370-4227

**Dean:** *Kenneth Hightower, Ph.D.*

**Office of the Dean:** *Ronald M. Mattei, assistant dean; Tamra E. Bays, academic adviser*

## Board of Visitors

The Board of Visitors for the School of Health Sciences is composed of community leaders directly interested in issues of health and health care education. The board helps the school to encourage healthy living as a means to promote wellness and to encourage safety maintenance in the home and workplace. In addition, the board helps the school to develop curricula and continuing education initiatives to meet community needs regarding current knowledge about the delivery of health care. Board members offer advice on needed research and long-range planning for the school.

### Members of the Board of Visitors are:

*Henry D. Boutros, P.T., M.Ed., Director, Center for Integrated Therapy*

*Donald Brown, M.D., Ph.D., Medical Director and Chairman, Early Warning Healthcare Institute*

*John Hoffman, Ph.D., President, Safety Engineering Labs, Inc.*

*John Labriola, M.B.A., Senior Vice President and Hospital Director, William Beaumont Hospital - Royal Oak*

*Christine Leaman, Executive Director, American Red Cross Detroit National Testing Lab*

*Moon J. Pak, M.D.*

*Steve Piotrowski, Regional Director of Operations, Heartland Rehabilitation Services*

*Teresa Stayer, Vice President, SpectraMed*

*Vanett Vereeke, President, M. Rose Construction*

## General Information

The School of Health Sciences offers degree and non-degree programs in health and medically related fields. Bachelor of Science degree options include health sciences, occupational safety and health, medical laboratory sciences, and wellness, health promotion, and injury prevention. A Master of Science degree is offered in exercise science. The School of Health Sciences also offers both an entry level Doctor of Physical Therapy degree, for students who want to become physical therapists, and a post-professional Doctor of Science in Physical Therapy for licensed physical therapists. The Bachelor of Health Science degree allows students to choose one of four academic focus areas in exercise science, pre-physical therapy, or pre-professional studies or pre-pharmacy. Graduate certificates are available in orthopedic manual physical therapy, pediatric rehabilitation, orthopedics, neurological rehabilitation, teaching and learning for rehabilitation professionals, clinical exercise science, complementary medicine and wellness, corporate and worksite wellness, and exercise science at the graduate level.

Continuing education is offered by the School of Health Sciences Center for Professional Development in order to meet the educational needs of health sciences professionals. Specialized contract programs are also provided to meet the unique professional staff development needs of employers in health care, business and industry, government and

other settings. Programs are individually tailored to meet the specific workplace needs of professionals and employers. Programs and courses are offered either for university credit or noncredit. When noncredit programs and courses are offered they carry the nationally recognized Continuing Education Unit (CEU).

Admission to any program offered by the School of Health Sciences may be considered on a competitive basis if the balance between applicants and available instructional resources requires such action to maintain the academic integrity of the program.

School programs with laboratory and internship components require that physical, cognitive, and psycho-social technical standards be met. Students with disabilities who have questions about meeting these standards are encouraged to contact the Office of Disability Support Services, 157 North Foundation Hall (248-370-3266).

High school students considering a major in any of the programs offered by the School of Health Sciences should consult the *Admissions* section of the catalog for specific preparation requirements.

The programs in Occupational Safety and Health and in Wellness, Health Promotion, and Injury Prevention do not incorporate a pre-professional component; thus, students may declare these majors upon entry to the university.

The academic requirements for each of the baccalaureate programs of the school are described in the pages that follow. The requirements include prerequisite-level course work that complements each program's core curriculum, the program major course requirements, the university general education and U.S. diversity requirements and the university writing requirement.

Students transferring from other universities or colleges to Oakland University must have their transcripts evaluated by the School of Health Sciences to determine which core curriculum or program course work requirements have been met. See *Transfer student information* for additional information.

## Academic advising

A professional academic adviser is available to assist students with degree requirements, plans of work, course scheduling, transfer course evaluation, establishing academic goals, health career choices and the process of achieving major standing. The health sciences advising office is located in 364 Hannah Hall (248-370-4195). Advising appointments: (248-370-4038). Freshman and transfer orientation advising is required of all entering students. Undecided health science students should meet with the academic adviser early in their program of study. Thereafter, students are encouraged to make appointments with the adviser periodically to monitor their progress. Health sciences faculty members are also available to assist with curriculum and course questions once students are enrolled in health sciences major course work.

To avoid delays in seeing an adviser, students are encouraged to schedule advising appointments during times other than early registration periods. Advisers are obligated to assist students in planning their programs. Ultimately, students are responsible for understanding and fulfilling the degree requirements for graduation as set forth in this catalog.

## Approved minors

School of Health Sciences students may elect to complete a minor in another discipline offering such an option. It is recommended that students who are considering declaring a minor consult as early as possible with the School of Health Sciences academic adviser and the minor field adviser. Credits earned toward a degree in the School of Health Sciences can be counted also toward any minor to which they would otherwise apply that is offered by the other schools or the college.

## School honors:

Honors are awarded to School of Health Sciences graduating students who have earned a GPA of 3.5 or above in courses completed in the school.

## Petition of exception:

For students enrolled in health sciences programs, all petitions of exception must be reviewed by a faculty member or the academic adviser and reviewed by the appropriate program director before referral to the Health Sciences Committee on Instruction. See the *Academic Policies and Procedures* section of the catalog for further information (*Petition of exception*).

## Exercise Science Program

**Director:** *Brian R. Goslin*

**Professor Emeritus:** *Alfred W. Stransky*

**Professor:** *Robert W. Jarski*

**Associate professors:** *Brian R. Goslin, Charles R. C. Marks*

**Clinical professors:** *Barry A. Franklin, Steven J. Keteyian, Murray B. Levin, Augustine L. Perrotta*

**Clinical associate professors:** *John F. Kazmierski, Creagh E. Milford, Rajendra Prasad*

**Adjunct assistant professors:** *Patricia Brooks, Scott Eathorne, Victoria Kimler, Jack T. Wilson*

**Clinical assistant professors:** *Roger Byrd, Jeffrey H. Declaire, Mario J.C. DeMeireles, Albert A. DePolo, Johnathan Ehrman, Roland Gerhard, William E. Hill, Andrew J. Madak, Chandra S. Reddy*

**Clinical instructors:** *Mary Ann Cukr, Nancy S. Kennedy, Sheldon Levine, Hans J. Stein*

The exercise science program offers elective courses for students interested in the relationship among physical activity, weight control, disease prevention, stress management and nutrition for optimal health and performance.

Opportunities exist for students to establish personal programs of exercise, weight control, nutrition, stress management and substance abuse avoidance.

Disease prevention and quality of life are components of many of the course offerings. Selecting courses in exercise science can be especially meaningful to students entering a health-related career, with the current emphasis placed on health promotion and disease prevention within the health care delivery system.

Students can complete a baccalaureate degree in health sciences with an exercise science academic focus. See *Health Sciences Program* in this section of the catalog. For a description of the Master of Science in exercise science program, see the *Oakland University Graduate Catalog*.

## Minor in exercise science

A 22 credit minor in exercise science is available to students in any degree program seeking a formal introduction to the exercise science field. An undergraduate degree focusing on exercise science may be designed by including this minor in a Bachelor of Science in wellness, health promotion & injury prevention, a Bachelor of General Studies, or a Bachelor of Science in health sciences plan of work. Courses required for the minor include: HS 201; EXS 204, 304\*, 306\*, and 350\*; and 6 credits from the following electives: EXS 103\*, 105\*, 202, 203, 205, 207\*, 215, 303, 321, 360, 405, 410, 425, 435,

445, 450, 465, 493 (2 credits maximum); WHP 310, 360, 420. Courses denoted with an asterisk (\*) represent prerequisite courses for admission to the Master of Science in exercise science program. (An additional prerequisite for admission to this graduate program is STA 225 or 226 or PSY 251.)

## Course Offerings

### **EXS 103            Exercise (Strength Training) and Health Enhancement (2)**

Examination of lifestyle factors related to disease prevention and improved quality of life. Combines regular strength training exercise and health enhancement lectures. Offered all semesters.

### **EXS 105            Cardiovascular Fitness Training (2)**

Examination of lifestyle factors related to disease prevention and improved quality of life. Combines exposure to walking-jogging exercise, aerobics exercise, standard cardiovascular training equipment, swimming exercise and health enhancement lectures. Offered all semesters.

### **EXS 202            Introduction to Exercise Science (2)**

Introduction to the basic concepts from different areas of exercise science (e.g. motor learning, exercise physiology, biomechanics). Offered spring semester.

### **EXS 203            Resistance Training Exercise Leadership (2)**

Theory and practice of safe and effective exercise instruction for individual and group resistance training programs. Excellent preparation for personal training. Focus on program design, practical skills of exercise instruction, progression, effective communication, facilities and equipment, legal issues, and risk management. Spring semester.

Prerequisite: EXS 103 or instructor permission.

### **EXS 204            Weight Control, Nutrition and Exercise (4)**

Exploration of the role of exercise and optimal nutrition in weight control/loss. Emphasis on effective eating, energy balance, physiology of weight loss, behavior modification and health risks of obesity. Includes practical laboratory experiences. Recommended for students wishing to develop successful weight loss/control skills and improved nutritional habits. Fall, winter and spring semesters.

### **EXS 205            Group Aerobic Exercise Leadership (2)**

Theory and practice of safe and effective exercise instruction for group aerobic exercise training programs. Focus on training class styles and formats, practical skills of exercise instruction, progression, cueing, pattern building, choreography, and learning styles including visual, kinesthetic and auditory. Land- and water-based programs. Summer semester.

Prerequisite: EXS 105 or instructor permission.

### **EXS 207            Safety and First Aid in Exercise Settings (2)**

Understanding of procedures in the immediate and temporary care of victims of an accident or sudden illness in exercise settings. Safety concerns regarding exercise facilities, equipment and programs. Certification in American Red Cross "Responding to Emergencies" and "Basic Life Support" upon completion. Fall, winter and spring.

### **EXS 215            Stress Management (2)**

Concepts and techniques to enable students to manage stress more effectively. Offered every term.

### **EXS 304            Exercise Physiology (3)**

Effects of exercise and physical training on the physiological systems of the body, with emphasis on cardio-respiratory systems. Includes muscle contraction mechanisms, circulatory and respiratory adjustment during exercise, and nutrition for physical activity. Fall and winter semesters.

Prerequisite: BIO 111 and BIO 207.

Co-requisite: EXS 306.

### **EXS 306            Exercise Physiology Laboratory (1)**

Laboratory experiences are provided for insight into the dynamics of human movement from research and clinical perspectives. Fall and winter semesters.

Prerequisites: BIO 111 and BIO 207.

Co-requisite: EXS 304.

**EXS 321 Basic Athletic Training (2)**

Identical with PT 321.

Prerequisite: BIO 205, BIO 207, EXS 350 or PT 300.

**EXS 350 Human Motion Analysis (4)**

The study of basic mechanical and kinesiological principles and their functions, interrelationships and involvement with the mechanics of human motion. Fall and spring.

Prerequisite: BIO 205, BIO 111.

**EXS 360 Healthy Lifestyle Choices (2)**

A biopsychosocial approach to exercise and other healthy lifestyle choices. Focus is on the dimensions of wellness, factors influencing lifestyle choices, the theory and practice of behavior change, and health promotion concepts. Credit will not be granted for both EXS 360 and EXS 560. Offered fall and spring.

Prerequisite: PSY 100, EXS 204 or EXS 304 or HS 201.

**EXS 401 Practicum in Exercise Science (5)**

Supervised experience in a wide variety of educational exercise science settings. Students must be approved to attend a practicum site prior to registration. A list of approved practicum sites is available through the program office. Offered all semesters.

Prerequisite: EXS 304, EXS 350, program permission.

**EXS 403 Human Performance Enhancement (2)**

Advanced topics and trends in modern strength and conditioning program design and implementation. Topics include muscle physiology, neuromuscular physiology, performance profiles, periodization, and the theory behind developing adequate strength, mass, flexibility, power, and stability programs.

Prerequisite: EXS 103 or instructor permission.

**EXS 405 Health and Disease (2)**

Examination of the health and medical record with a focus on the history, physical exam, and laboratory and imaging studies. The pathogenesis of representative diseases that are lifestyle related are emphasized. Credit will not be granted for both EXS 405 and EXS 505. Offered spring semester.

Prerequisite: BIO 111 and BIO 207, or instructor's permission. BIO 205 recommended.

**EXS 406 The Brain and Disease (2)**

Reviews current neurological research on the brain in health and disease, including addiction, depression, stroke, viral infections, Alzheimer's and Parkinson's. Emphasis on multidisciplinary research studies on the role of exercise and nutritional antioxidants. Spring elective.

Prerequisite: EXS 304, HS 401 or permission of instructor.

**EXS 410 Clinical Biomechanics (2)**

The pathomechanics of the human musculoskeletal system. Topics include properties of human tissue, mechanisms of injury, pathokinesiology, and principles of musculoskeletal exercise prescription. Credit will not be granted for both EXS 410 and EXS 610. Offered fall semester in even-numbered years.

Prerequisite: EXS 350 or instructor's permission.

**EXS 425 Exercise Electrocardiography (2)**

Theoretical and applied concepts of resting and exercise electrocardiography (ECG), the normal ECG, and factors contributing to abnormal ECG. Students experience exercise test applications of the ECG and learn to recognize life-threatening arrhythmias. Credit will not be granted for both EXS 425 and 625. Offered spring.

Prerequisite: EXS 304 or permission of instructor.

**EXS 435 Environment and Human Performance (2)**

Human adaptation to major factors that can significantly influence human movement in diverse micro- and macro-environments, including temperature, altitude, precipitation, light, noise and socio-cultural factors. Credit will not be granted for both EXS 435 and EXS 635. Offered fall semester in odd-numbered years.

Prerequisite: EXS 304.



**EXS 445      Physical Activity and Aging (2)**

The effects of aging on physical work capacity, body composition, and cardiovascular, pulmonary, neuromuscular and musculoskeletal function. The principles for prescribing and conducting physical conditioning programs to retard the aging process are included. Credit will not be granted for both EXS 445 and EXS 545. Offered summer.

Prerequisite: EXS 304 and EXS 350.

**EXS 450      Children and Exercise (2)**

Physical activity and the growth, maturation, motor development, and motor learning of children from birth through adolescence. Skill and performance enhancement, exercise program design, biomechanics, and injury and disease prevention are discussed. Credit will not be granted for both EXS 450 and EXS 550. Offered summer semester in odd-numbered years.

Prerequisite: EXS 304 and EXS 350.

**EXS 465      Corporate and Worksite Wellness Programs (2)**

Concepts underlying corporate and worksite health promotion programs, including: health and exercise program planning, facility planning and design, program management, staffing, equipment selection, safety and legal issues, and marketing. Credit will not be granted for both EXS 465 and EXS 565. Offered spring.

Prerequisite: EXS 304 or instructor's permission.

**EXS 493      Directed Study and Research (1, 2, 3 or 4)**

Special study areas and research in exercise science. May be repeated for additional credit. Offered every semester.

Prerequisite: Program permission.

## Health Sciences Program

**Professors:** *Gary D. Russi, Ronald E. Olson, Kenneth R. Hightower*

**Clinical professor:** *Moon J. Pak*

**Clinical associate professor:** *Frank E. Check*

**Clinical assistant professor:** *Todd Lininger*

**Adjunct assistant professor:** *Anthony Tersigni*

A Bachelor of Science in health sciences degree combines a broad spectrum of liberal arts, basic sciences, social sciences and health sciences course requirements and electives for students who desire a generalized health sciences academic credential. In addition, students choose one of four academic focus areas to obtain greater exposure to a specific health discipline. These four focus areas include exercise science, pre-pharmacy, pre-physical therapy and pre-professional studies. Students completing the exercise science focus area obtain all the academic course prerequisites necessary for consideration for admission to the Master of Science in exercise science program. The pre-physical therapy focus area prepares students for the traditional application requirements for the Oakland University Doctor of Physical Therapy (DPT) Program. The pre-professional focus area incorporates basic science courses to prepare students for the traditional application requirements for medical, dental, optometric and other professional schools. The pre-pharmacy focus area prepares students for the traditional application requirements for programs in pharmacy and health care professions.

## Requirements for the B.S. degree with a major in health sciences

1. Meet the university general education requirements (see *Undergraduate degree requirements*).
2. Complete the university U.S. diversity requirement. For health sciences majors, this requirement is satisfied by completing HS 202.
3. Complete the prescribed number of credits from the following courses: BIO 111, 205, 206 or 322, 207 or 321; CHM 157, 158; HS 201, 202, 401, 450 (preferred or PHL 318 or HRD 303); MTH 141; PHY 101, 102, 158; PSY 100; STA 225.
4. Complete the course requirements specified under one of the four academic focus areas (exercise science, pre-physical therapy, pre-pharmacy, or pre-professional studies).

## Exercise science academic focus course requirements

Students completing the Bachelor of Science in health sciences with an academic focus in exercise science must complete a minimum of 136 credits, including the following courses:

1. EXS 103, one other course from EXS 101-105, 204, 207, 304, 306, 350; HS 451; PSY 250, 344 (preferred, or PSY 321, 323, 333, 338).
2. Complete a minimum of 8 credits from these H.S. elective courses: BIO 325; CHM 201; CSE 125; EXS 202, 215, 321, 360, 405, 445, 493; HRD 335; HS 301, 311, 331; OSH 331, 332, 334, 335; MLS 210; MTH 122; 154; PSY 225, 321, 323, 333, 338; SOC 328; WHP 360, 420; or any other course pre-approved in writing by the exercise science program director.
3. Complete a minimum of 10 credits (minimum of 8 credits at 300 level or above) from these EXS Focus elective courses: EXS 202, 203, 205, 215, 303, 321, 360, 405, 410, 425, 435, 445, 450, 465, 493; or any other course pre-approved in writing by the exercise science program director.
4. A course may not be used to satisfy both an H.S. elective and an EXS Focus elective requirement.

## Pre-physical therapy academic focus course requirements

Students completing the Bachelor of Science in health sciences with an academic focus in pre physical therapy must complete a minimum of 128 credits, including the following requirements:

1. EXS 204, 207, 304, 306, 350; HS 451; MLS 210; MTH 011 (or placement into “E” – credits do not count toward graduation); MTH 012 (or placement into “I” – credits do not count toward graduation); PSY 250, 225 or 321 or 323; PT 302, 321.
2. Complete a minimum of 10 elective 300/400 level credits from the following courses: BIO 323, 324, 325, 326, 341; CHM 453, 454, 457; EXS 360, 405, 410, 425, 435, 445, 450, 465, 493; HRD 335; HS 331, 359, 405; PHY 326; PSY 321, 323, 333, 338; PT 490; SOC 328; WHP (any 300/400 level); or any other 300/400 level course pre-approved in writing by the physical therapy program director.

## Pre-professional academic focus course requirements

Students completing the Bachelor of Science in health sciences with an academic focus in pre-professional studies must complete a minimum of 131 credits, including the following courses:

1. BIO 113, 323, 324, 325, 326, 341; CHM 234, 235, 237.
2. Complete a minimum of 22 credits from these elective courses: CHM 201; CSE 125; EXS 215, 304 and 306, 321, 360, 405, 445, 493; HRD 335; HS 301, 311, 331, 451; OSH 331, 332, 334, 335; MLS 210; MTH 122 or 154; PSY 225 or 321, or 250, 323, 333, 338, 344; SOC 328; or any other course pre-approved in writing by the health sciences program director.

## Pre-pharmacy academic focus requirements

Students completing the Bachelor of Science in Health Sciences with an academic focus in pre-pharmacy complete their basic science courses as well as their general education courses in this focus. In the senior year, students take the following courses taught at Wayne State University:

PSC 3110 Pharmaceutical Biochemistry (3)  
 PSC 3120 Dosage Form Design & Bioph (4)  
 PPR 3020 Intro to Patient Care I (2)  
 PPR 3040 Patient Care I Lab (1)  
 Pharm Calc & Descriptive Stats (1)  
 General Education (4)

PSC 3210 Biotechnology in Therapeutics (2)  
 PPR 3120 Pharmacy Jurisprudence (2)  
 PPR 3060 Patient Care II (2)  
 PPR 3070 Patient Care II Lab (2)  
 PPR 3040 Medical Informatics (2)  
 General Education (4)

It is recommended that students consult with the academic adviser prior to enrolling in classes.

## Course Offerings

The school 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*.

### HS 101                      **Careers in Health (0)**

An introduction to programs and career opportunities offered through the School of Health Sciences. Class meets only the first week of the fall semester. Not graded.

### HS 201                      **Health in Personal and Occupational Environments (4)**

Current information about the impact of environmental and lifestyle factors on health. The impact of exercise, weight control, substance abuse, nutrition and stress management on a person's ability to cope with environmental stresses will be analyzed. *Satisfies the general education requirement in the natural science and technology knowledge exploration area or the knowledge application integration area, not both.*

Prerequisite: Completion of the general education requirement in either the natural science and technology, or the social science knowledge exploration area.

### HS 202                      **Social, Cultural, and Economic Perspectives in Health (4)**

Biological, psychosocial, social-cultural, economic philosophical, political, ethical, environmental, community, and public health organization determinants of health are discussed relative to the distribution, cause, prevention and treatment of disease. Topics include epidemiological health indicators, goals, systems of health care delivery, disparities, diversity/stereotyping, gender, disability, and age related issues. *Satisfies the university general education requirement in the social science knowledge exploration area and in U.S. diversity.*

Prerequisite: HS 201 or instructor permission.

**HS 301 Human Nutrition and Health (4)**

Chemical, biological, social and psychological elements of human nutrition. Constituents of food and their functions in human health and disease. Offered spring term.

**HS 311 Contemporary Topics in Nutrition (2)**

Explores the changing frontier of nutritional sciences and provides the basis for understanding and evaluation of new nutritional information with an emphasis on encouraging individuals to make healthy food/lifestyle choices. Spring semester in odd-numbered years.

Prerequisite: HS 301 or instructor permission.

**HS 331 Pharmacology (2)**

An introduction to the principles of pharmacology, including the principles of drug therapy and the actions of the basic classes of drugs. Will satisfy requirements for NRS 230.

Prerequisite: BIO 207 or BIO 321.

**HS 359 Public Policy and Health Care (4)**

Cross-listed with PS 359.

**HS 401 Introductory Pathology (4)**

Basic principles of human pathology appropriate for students pursuing curricula in the health-related disciplines. Diseases of the major systems of the body are studied. Credit will not be granted for both HS 401 and HS 501.

Prerequisite: BIO 111 and BIO 207 or BIO 321.

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

May be repeated for additional credit.

Prerequisite: Permission of instructor.

**HS 406 The Brain and Disease (2)**

Reviews current neurological research on the brain in health in disease, including addiction, depression, stroke, viral infections, Alzheimer's and Parkinson's. Emphasis on multidisciplinary research studies on the role of exercise and nutritional antioxidants. Spring elective.

Prerequisite: EXS 304, HS 401 or permission of instructor.

**HS 450 Law, Values and Health Care (4)**

An examination of the legal concepts, problems and institutions that shape and control professional responsibility, the problems that are associated with maintaining and terminating life, licensure and related questions in the organization and delivery of health care services.

**HS 451 Mind-Body Medicine (2)**

Examines the role of stress, emotions and other psychological states that bring about physiological changes affecting health and disease. Topics include psychoneuroimmunology, stress management, guided imagery, the relaxation response, exercise, nutrition, laughter and humor, and the role of personality. Applications include patient motivation, empowerment and variability in response to treatment.

**HS 490 Directed Study (1, 2, 3 or 4)**

Student-initiated and problem-oriented directed study focusing on health sciences issues. May be repeated for additional credit. Graded numerically or S/U.

Prerequisite: Departmental permission.

# Occupational Safety and Health

**Director:** *Charles W. McGlothlin, Jr.*

**Associate professor:** *Richard J. Rozek*

**Assistant professor:** *Charles W. McGlothlin, Jr.*

**Adjunct associate professor:** *John M. Hoffmann*

**Adjunct instructors:** *Frank M. Cleary, Melissa Eddy, Michael Everett, Patrick R. Frazee, Darryl C. Hill, Daniel Maser, Garnett Payne, Laurie A. Rudolph, Thomas W. Schenk, James M. Weiskopf*

Occupational safety and health is a specified branch of the health professions focusing on the workplace environment and on the behavior of workers. Protecting America's workers and the general public from injury and illness in today's age of technological advancement has become one of the most challenging and rewarding professions available. Occupational safety and health professionals strive to identify, evaluate and eliminate or control hazards which expose people, property or the environment to danger or harm. This professional is concerned with prevention of injuries or occupational diseases that may occur with the interaction between the worker and the chemical, physical, biological, ergonomic, mechanical, electrical and other forces in the work environment. In addition the safety professional is involved in the prevention of accidents that could cause property or environmental damage.

The Occupational Safety and Health (OSH) program is multi-disciplinary in nature, providing students with relevant exposure to basic sciences and behavioral science subjects as well as a thorough introduction to occupational safety and industrial hygiene concepts. A one-semester internship in the senior year of the program provides students with firsthand field experience in the practice of occupational safety and health. Internship placements are coordinated by the program director and include, manufacturing, construction, service, consulting, labor and government organizations.

Graduates of the program will find employment opportunities within a wide variety of occupations to include: health care facilities; industrial firms; construction companies; insurance companies; professional associations; local, state, and federal government; and labor organizations. Oakland's proximity to many of the nation's leading industrial companies provides a wealth of experiential learning opportunities throughout the OSH curriculum, particularly for the internship placements. These world class companies also offer employment opportunities to the OSH graduate.

## Program educational objectives

The Occupational Safety and Health program contributes to the institution's mission by offering a high quality baccalaureate degree that meets and exceeds the educational outcomes-based criteria established by the American Society of Safety Engineers for a B.S. degree in a safety-related career field. The educational objectives of the Occupational Safety and Health program are designed to prepare students to:

1. Enter the industrial health and safety profession as a generalist with the skills necessary for success;
2. Use the techniques, skills, and modern scientific and technical tools necessary for professional practice;
3. Become proficient in written composition and oral communications;

4. Apply knowledge of mathematics and science to analyze and interpret data necessary to resolve safety and health related issues;
5. Anticipate, identify, and evaluate workplace hazardous conditions and practices;
6. Formulate hazard control designs, methods, procedures, and programs;
7. Function effectively on multi-disciplinary teams;
8. Recognize the impact of solutions within a global and societal context;
9. Understand ethical and professional responsibility;
10. Pursue successfully graduate study in safety and health; and
11. Appreciate the need to continue professional development through graduate study, professional certification, and to become life-long learners.

## Requirements for the B.S. degree with a major in Occupational Safety and Health

Students seeking the Bachelor of Science degree with a major in occupational safety and health must complete a minimum of 125 credits, including the following requirements:

1. Meet the university general education requirements (see *Undergraduate degree requirements*). In completing the occupational safety and health curriculum, occupational safety and health majors will automatically satisfy the requirement in natural science and technology, math, logic, computer science, social science, and western civilization.
2. Complete the university U.S. diversity requirement. For Occupational Safety and Health majors, this requirement is satisfied by completing HS 202.
3. Complete the occupational safety and health required courses: BIO 104, CHM 104, CHM 201, MTH 141, STA 225, PHY 120, HS 201, 202; PSY 100, SOC 100, SOC 357, ENG 382, HRD 320, HRD 322, and PHL 103.
4. Complete the major courses: OSH 100, 225, 235, 331, 332, 333, 334, 335, 336, 441, 442, 443, 444, 445, 446, and 499. (OSH 499 may only be taken with permission of the OSH program director.)
5. Complete all math and science prerequisite courses within the occupational safety and health curriculum and all occupational safety and health required OSH courses with grades of 2.0 or higher.

## Minor in Occupational Safety

A minor in occupational safety is available to complement other majors in the School of Health Sciences and in other programs, such as environmental health, human resource development, engineering, biology or chemistry. This minor is also designed to support a Master of Science degree in Safety Management. A minimum of 26 credit hours is required for a minor in Occupational Safety. Courses required for the minor include: OSH 100, 225, 235, 331, 332, 334, 335, 336, 441 and 442. In addition an internship is recommended to enhance job placement.

## Grade point policy

Occupational Safety and Health majors must achieve minimum course grades of 2.0 in science core prerequisite courses and in required OSH courses. A final course grade below 2.0 places a student on probation, which requires a meeting with the program director or a designated representative to discuss a method of remediation. In most cases, the method of remediation involves repeating the course in which the unsatisfactory grade was earned. See *Repeating courses* for additional information.

## Course Offerings

The program 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*.

### OSH 100 Introduction to Occupational Safety and Health (1)

Introduces students to various occupational environments through site visits and/or guest speakers and provides first hand experience of how health and safety professionals function in the workplace. Prerequisite: None.

### OSH 115 Safety and Health at Work (2)

A general introduction to safety and health on the job including injury and illness prevention, emergency response, accident investigation, relevant legislation, and current topics. It is recommended for business, engineering, prelaw, health professions or general studies students. Due to its condensed nature, it may not be used to meet OSH major requirements. Prerequisite: None.

### OSH 225 Occupational Safety and Health Training Methods (3)

Provides in-depth study of training methods required to conceptualize, prepare, deliver and evaluate training directed at the adult learner. Course includes hands-on experiences in conducting a training needs assessment, establishing learning objectives, developing curricula, pertinent to needs of participants using different types of media and developing training evaluation tools. Prerequisite: None.

### OSH 235 Occupational Safety and Health Standards (3)

Current regulations and standards promulgated by the Occupational Safety and Health Administration of the U.S. Department of Labor, with specific emphasis on Michigan safety and health standards. Prerequisite: None.

### OSH 331 Occupational Safety I: Engineering and Technology (3)

Safety principles and practices in the industrial environment. Engineering and technical information are discussed. Prerequisite: None.

### OSH 332 Occupational Safety II: Administration and Programs (3)

Management aspects of the industrial environment. Administration techniques, governmental regulations, and programs for health and safety management are discussed. Prerequisite: None.

### OSH 333 Fire Prevention and Protection (3)

Fundamentals of flame generation and propagation, fire behavior in open and confined spaces, theory of fire fighting methods, fire detection and suppression, property loss control and life safety. Prerequisite: OSH 331 or OSH 332 or instructor permission.

**OSH 334 Industrial Environment I: Evaluations (3)**

Basic concepts in the recognition, measurement and evaluation of chemical, physical (noise, radiation, extreme thermal conditions, etc.) and biological (blood borne pathogens, allergens, etc.) hazards in the industrial environment.

Prerequisite: CHM 201, PHY 120.

**OSH 335 Industrial Environment II: Controls (3)**

Principles and practices on the control aspects (engineering, administrative, and personal protection) of chemical, physical and biological hazards in the industrial environment.

Prerequisite: OSH 334.

Corequisite: OSH 336.

**OSH 336 Industrial Environment Lab (1)**

Quantitative monitoring techniques for measuring and evaluating environmental stress in the industrial workplace.

Corequisite: OSH 335.

**OSH 423 Radiation Safety (3)**

Safety aspects of occupational hazards associated with the use of ionizing radiation in industry. Methods for the identification, evaluation and control of potential worker overexposure conditions will be reviewed. Biological effects of acute and chronic worker exposure will also be reviewed.

Prerequisite: OSH 335, PHY 120, or instructor permission.

**OSH 441 Accident/Incident Investigation and Analysis (3)**

A review of methodologies for accident and incident investigation and analysis. Topics include data collection, investigative methodologies, interviewing techniques, techniques of data analysis, reporting formats, systems safety, and developing recommendations to prevent recurrence.

Prerequisite: OSH 332 or instructor permission.

**OSH 442 Construction Safety (3)**

Construction safety practices and principles with an overview of program development, legislative issues and special concerns of the construction industry with respect to worker safety.

Prerequisite: None.

**OSH 443 Robotic and Automation System Safety Analysis (3)**

Information and issues related to worker safety in industrial environments where robots are used. The state-of-the-art of advanced automation will be surveyed, with emphasis on system safety and injury prevention features required to assure an adequate worker/robot interface.

Prerequisite: OSH 331 or instructor permission.

**OSH 444 Environmental Standards (3)**

Examines air, water, hazardous waste, pesticide and chemical regulatory standards. Topics will be analyzed in terms of standard development, enforcement at state and federal levels, and the validity of the standard's ability to protect health and the environment.

Prerequisite: None.

**OSH 445 Introduction to Ergonomics (3)**

Ergonomics and related change management concepts; anthropometry, biomechanics, metabolic energy expenditure, capabilities and limitations of workers; design and analysis of the workplace, hand tools, controls and products; application of the NIOSH lifting guidelines and other standards. Cross-listed with WHP 420.

Prerequisite: BIO 104 or WHP 300 and WHP 305.

**OSH 446 Industrial Toxicology (3)**

Introduction to the basic concepts and techniques of toxicology, with special attention given to the industrial environment. Evaluation of the toxic effects of substances and toxic responses to various substances.

Prerequisite: BIO104, CHM 201, OSH 335.



**OSH 480 Special Topics in Occupational Safety and Health (2, 3, or 4)**

Instructor initiated research and investigation into current topics of special interest in the career field of occupational safety and health.

Prerequisite: Program director permission.

**OSH 490 Directed Study and Research in Occupational Safety and Health (1, 2, 3 or 4)**

Student initiated and problem-oriented independent research and study focusing on occupational safety and health issues. May be repeated for additional credit. Graded S/U.

Prerequisite: Program director permission.

**OSH 499 Occupational Safety and Health Internship (4)**

An experiential learning capstone in industrial health and safety in close collaboration with professional health and safety practitioners to expose the intern to health and safety problem identification, evaluation, and control and to health and safety program planning and evaluation. May only be taken by students with major standing and minimum 2.0 GPA in all OSH courses. Graded S/U.

Prerequisite: Program director permission.

## Medical Laboratory Sciences Program

**Director:** *J. Lynne Williams*

**Professor:** *J. Lynne Williams*

**Clinical professors:** *Domnita Crisan, Howard J. Dworkin, Joan C. Mattson, Frank A. Vicini*

**Adjunct professor:** *Frederick L. Kiechle*

**Clinical associate professors:** *Barbara Anderson, Mujtaba Husain, Larry Kestin*

**Adjunct associate professor:** *Raymond Karcher*

**Clinical assistant professors:** *Elena I. Dvorin, Rebecca Chapman Hankin, Barbara Robinson-Dunn*

**Adjunct assistant professors:** *Janet Castillo, Jenn Chyan Chen, J. Douglas Ferry, Carol A. Holland*

**Clinical instructors:** *Michele M. Beauvais, Laura Bergsman, Lisa Burgess, Janice Campbell, Vivian Churchill, Ruthann Ciszewski, Cheryl Culver-Schultz, Maria M. Hardy, M. Patricia Harvey, Margaret M. Kluka, Nancy Lamers, JoAnne Logue-O'Malley, Larry D. Meakem, Muriel Morrison, Kalyani Naik, Paul M. Nuechterlein, Mary L. Premo, Nancy E. Ramirez, Joseph Roszka, Joyce A. Salancy, Laura L. Ochs, Laura Tyburski, Carol A. Watkins, Peggy A. Wenk, Mary A. Zamboldi, Anita Zuzga*

**Adjunct instructor:** *Jean Garza*

The medical laboratory sciences program is designed to prepare students for professional opportunities in a variety of settings. Graduates may find employment in hospital or commercial clinical laboratories, research laboratories or public health facilities. Positions within biomedical corporations, including research and development, quality assurance and sales or service may also be prospective sources for employment. Furthermore, because it meets basic academic requirements, the medical laboratory sciences curriculum provides excellent preparation for entry into post-baccalaureate professional programs including medicine, dentistry and osteopathy.

Medical laboratory sciences is a very diversified field. In response to new technologies, many areas of specialization have evolved within the profession to ensure the expertise of individuals performing the required tasks. The medical laboratory sciences program

at Oakland University addresses several specializations including clinical laboratory science (formerly medical technology), cytotechnology, histotechnology, nuclear medicine technology and radiation therapy. As health care professionals, medical laboratory scientists play an integral part in patient care. Some are involved in detection and diagnosis of disease. Others provide therapy to patients. In general, cytotechnologists and histotechnologists are involved in the diagnosis of disease based on alterations in cells or tissues. Clinical laboratory scientists (formally medical technologists) perform a wide range of diagnostic tests, including chemical, microscopic, bacteriological and immunological procedures used in the diagnosis and study of disease. Nuclear medicine technologists use small amounts of radioactive materials for diagnostic evaluation of the anatomic or physiologic conditions of the body and to provide therapy with radioactive sources. Radiation therapists use ionizing radiation in the treatment of cancer.

Generally, employment in a hospital or community clinical laboratory requires certification in a specialization field. Students are eligible to sit for national certification examinations in their specialization upon completion of the appropriate internship at an accredited institution. Professional certification is obtained by successfully passing the examination.

Students may be admitted as pre-medical laboratory science majors directly from high school or by transfer from other colleges or universities. As described below (*Admission to clinical specialization internship*), with the exception of clinical laboratory science, students have the option of earning the medical laboratory sciences degree by completing a hospital-based clinical specialization internship program. **Acceptance into the internship programs is competitive and is based on grade point average, personal interview and letters of recommendation.** The application process for each of the specializations is unique. Students are advised to read carefully about their chosen specialization.

All students should declare their choice of specialization by the end of sophomore year. They must complete a departmental program application at this time. The declaration of and acceptance into a student's chosen specialization shall define specialization standing for course prerequisites and professional course requirements. The junior and senior year curricula will vary depending upon the specialization.

Students not wishing to pursue professional certification or not accepted by a clinical internship program may complete the medical laboratory sciences degree by following the academic program for the specialization of their choice and substituting adviser-approved electives for the clinical year (internship) course work. Such students will be eligible to apply for clinical internship opportunities either before or after graduation, if desired. However, only those students accepted into the radiation therapy internship program will be allowed to enter the radiation therapy junior year curriculum (hospital based program).

## Requirements for the B.S. degree with a major in medical laboratory sciences

Students pursuing specializations in cytotechnology, histotechnology, nuclear medicine technology, or radiation therapy must complete a minimum of 136 credits, including the following requirements. Students pursuing the specialization in clinical laboratory science must complete a minimum of 128 credits, including the following requirements.

### Pre-professional program

1. Meet the university general education requirements (see *Undergraduate degree requirements*).
2. Complete the university U.S. diversity requirement.
3. Complete the medical laboratory sciences core curriculum.

## Professional program

4. Complete the professional course requirements specified under one of the five medical laboratory sciences specializations (clinical laboratory science, cytotechnology, histotechnology, nuclear medicine technology, or radiation therapy).
5. Complete all medical laboratory sciences major program course work with a cumulative GPA of 2.50 or higher.

## Medical Laboratory Sciences Core Curriculum courses

BIO 111, 205, 206 or 322, 207\* preferred (or 321)

CHM 157-158

MTH 141\* or 121

STA 225 or 226

PHY 101-102\*\*

MLS 201, 205<sup>±</sup>, 210, 226<sup>±</sup>

HS 450

\*\* Radiation therapy majors must take MTH 141 and BIO 207.

\*\* For CT & HT majors – PHY 101 and/or 102 may be replaced by an equivalent number of credits from BIO 341 and/or 409.

± Not required for RT majors.

## Admission to clinical specialization internship

To be accepted in a clinical specialization internship, students must submit a formal application for each program for which they seek consideration. Applications for the cytotechnology, histotechnology, and radiation therapy internship programs are processed in the winter semester of the sophomore year (or following completion of the medical laboratory sciences core curriculum). Applications for nuclear medicine internships are processed during the winter semester of the junior year and applications for the CLS/MT internships are processed during the spring/summer prior to the senior year. It is recommended that students have a 3.00 overall GPA. Students with lower grade point averages may be admitted provisionally pending satisfactory completion of appropriate fall semester, junior-year course work.

## Grade point policy

Students must maintain a cumulative GPA of 2.50 in all course work applied to the medical laboratory sciences major. Students in a specialization will be placed on probation if they earn a grade less than 2.0 in any course or if their cumulative grade point average in major course work falls below 2.50. Students who earn a second grade less than 2.0 must have their programs reviewed by the faculty to determine remediation or termination from the program.

In order to remove probationary status, students must raise their major grade point average to 2.50 or higher.

## Specialization in clinical laboratory science (medical technology)

Clinical laboratory scientists perform diagnostic tests that afford important information to determine the presence, extent or absence of disease and provide data to evaluate the effectiveness of treatment. They work with all types of body tissues and fluids, from blood and urine to cell samples. Major areas of specialization within the laboratory are hematology, clinical chemistry, microbiology, serology, urinalysis and immunohematology (blood bank).

Students may apply for specialization standing in CLS after completing the pre-professional program, generally at the end of the sophomore year. The junior and senior years consist of the prescribed professional course requirements at Oakland University. A clinical internship is required for national certification as a clinical laboratory scientist (certification required for most hospital and private laboratory employment positions). Application to clinical internship (if desired) is made during the spring/summer semesters prior to the senior year. Internships are six or nine months (depending on the clinical site), and are done post-graduate. Oakland University is affiliated with the following accredited CLS clinical programs: Detroit Medical Center University Laboratories, Detroit; St. John Hospital, Detroit; William Beaumont Hospital, Royal Oak; and the Wayne State University/Oakland University clinical consortium.

### **Clinical laboratory science specialization professional course requirements**

Students in the clinical laboratory science specialization must complete the following courses: BIO 325; CHM 234; MLS 313, 314, 316, 317, 323, 327, 328, 330, 331, 335, 400, 401, 402, and 440.

### **Specialization in cytotechnology**

Cytotechnologists are trained medical laboratory scientists who detect disease by light microscopic examination of cell samples from all areas of the human body. They are responsible for the collection, preparation and staining of specimens consisting of cells that have been shed, abraded or aspirated from body tissues. Cytotechnologists are able to detect abnormal cells and provide preliminary diagnostic information.

Students may apply for specialization standing in cytotechnology after completing the preprofessional program. Application to the hospital-based internship is made during the winter semester of the sophomore year. Students will be informed of acceptance in June and begin the internship in August of the next calendar year. Application for specialization standing and internship usually coincide for cytotechnology.

The junior year consists of the prescribed professional course requirements at Oakland University. The senior year consists of a 12-month internship at an approved hospital school of cytotechnology. The internship includes an integrated presentation of didactic material, microscopic study, specimen preparation, clinical observation, cytogenetics, laboratory management and a research project.

The Detroit Medical Center University Laboratories offer a cytotechnology internship in affiliation with Oakland University.

### **Cytotechnology specialization professional course requirements**

Students in the cytotechnology specialization must complete the following courses: BIO 305, 306, 325; HS 401; MLS 312, 323, 330, 335, 400 and 401; and CT 401 and 402.

### **Specialization in histotechnology**

Histotechnologists perform a variety of diagnostic and research procedures in the anatomic sciences. During the clinical internship, students will learn histologic techniques that involve processing, sectioning and staining of tissue specimens that have been removed from humans or animals by biopsy, surgical procedures or autopsy. Advanced techniques include muscle enzyme histochemistry, electron microscopy, immunofluorescence and immunoenzyme procedures, molecular pathology techniques including in situ hybridization and image analysis, and medical photography. Techniques in education methodology, management, research, technical writing and presentation of scientific information are also included in the curriculum.

Students may apply for specialization standing in histotechnology after completing the preprofessional program. Application to the hospital-based internship is made during the winter semester of the sophomore year. Students will be informed of acceptance in June

and begin the internship in August of the next calendar year. Application for specialization standing and internship usually coincide for histotechnology.

The junior year consists of the prescribed professional course requirements at Oakland University. The senior year consists of a 12-month internship at The William Beaumont Hospital School of Histotechnology.

### **Histotechnology specialization professional course requirements**

Students in the histotechnology specialization must complete the following courses: BIO 305, 306, 325; HS 401; MLS 312, 323, 330, 335, 400, 401; HT 401, 402, 403 and 404.

### **Specialization in nuclear medicine technology**

Nuclear medicine technologists utilize small amounts of radioactive materials for diagnosis, therapy and research. Diagnosis can involve organ imaging using gamma counters to detect radioactive material administered to the patient or analysis of biologic specimens to detect levels of various substances. Therapeutic doses of radioactive materials are also given to patients to treat specific diseases.

Students may apply for specialization standing in nuclear medicine technology after completion of the pre-professional program. Application for specialization standing occurs at the end of the sophomore year. Application for the clinical internship is made during the junior year as the student approaches completion of the prescribed professional course requirements. The senior year consists of a 12-14-month affiliation at an approved school of nuclear medicine technology. Currently Oakland University MLS students may apply to the following accredited Schools of Nuclear Medicine Technology: William Beaumont Hospital, Royal Oak, MI, and the Nuclear Medicine Institute, Findlay, OH.

### **Nuclear medicine technology specialization professional course requirements**

Students in the nuclear medicine technology specialization must complete the following courses: BIO 325; HS 401; MLS 312, 323, 400 and 401; PHY 158; NMT 401 and 402. (In addition to the NMT specialization requirements, the Nuclear Medicine Institute, Findlay, OH program requires CSE 110 and a speech/oral communications class).

### **Specialization in radiation therapy**

Radiation therapy uses ionizing radiation to treat disease, especially cancer. Radiation therapists have the technical skills to plan, deliver and record a prescribed course of radiation. Their primary responsibility is to implement treatment programs prescribed by a radiation oncologist. Practice of this profession requires good judgment and compassion to provide appropriate therapy.

Students may apply for specialization standing in radiation therapy after completion of the pre-professional program. Students applying to the radiation therapy program must take the Allied Health Professions Admissions Test. Application is made during the winter semester of sophomore year. Students will be informed of acceptance in June and begin the two-year clinical program in August. The junior and senior years consist of didactic work and the supervised clinical experience in the Radiation Therapy Department at William Beaumont Hospital.

### **Radiation therapy specialization professional course requirements**

Students in the radiation therapy specialization must complete the following courses: CSE 125; PHY 158; RT 301, 311, 315, 321, 323, 331, 333, 334, 335, 341, 342, 343, 344, 401, 402, 403, 404, 405 and 406.

## Pre-professional studies in medicine, dentistry, optometry, veterinary medicine and physician assistant

The Bachelor of Science degree in Medical Laboratory Science, with a concentration in clinical laboratory science, provides excellent preparation for admission to professional schools. Different professional programs may require additional courses. Students should consult with MLS adviser. The other specializations in MLS (HT, CT, NMT and RT) can also be used as a prerequisite for professional schools with appropriate course supplementation.

### Course Offerings

The program 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*.

#### CYTOTECHNOLOGY

##### CT 401 Clinical Internship (12)

Microscopic study of cellular alterations indicative of cancer and precancerous lesions, infections and benign conditions in the female genital tract; introduction to cytopreparatory techniques. Prerequisite: Program permission.

##### CT 402 Clinical Internship (12)

Continuation of CT 401; microscopic study of non-gynecologic samples and fine needle aspirations; laboratory rotations; research project. Prerequisite: Program permission.

#### HISTOTECHNOLOGY

##### HT 401 Basic Histotechnique and Histochemical Staining Methods (12)

Didactic and practicum experience in preparing histologic sections for light microscopy, including the study of over 50 different histologic and enzyme histochemical staining methods and their specific applications. Prerequisite: Program permission.

##### HT 402 Basic Electron Microscopy (6)

Didactic and practicum experience in basic biological electron microscopy. Electron microscopic histochemistry and special techniques are also covered. Emphasis is on the electron microscope as a medical diagnostic tool. Prerequisite: Program permission.

##### HT 403 Immunohisto-Cytochemistry (3)

Didactic and practicum experience in basic and advanced procedures of fluorescent and enzyme-labeled antibody techniques. Includes the preparation of tissues, staining with labeled antibodies and the use of the fluorescence microscope in clinical medicine and research. Prerequisite: Program permission.

##### HT 404 Special Techniques (3)

Didactic and practicum experience in molecular pathology (in situ hybridization and DNA analysis), management, education methodology, technical writing and research techniques. Prerequisite: Program permission.

#### MEDICAL LABORATORY SCIENCES

##### MLS 201 Careers in Medical Laboratory Sciences (1)

An introductory seminar in medical laboratory sciences, including career opportunities in clinical settings (clinical laboratory science, histotechnology, cytotechnology, nuclear medicine technology, radiation therapy, industrial sales and/or research and development, basic medical research and education).

**MLS 205 Contemporary Issues in Health Care Organizations and Practice (2)**

An understanding of laboratory and health care organizations and issues to prepare students as professional practitioners to function effectively in a rapidly changing environment.

**MLS 210 Medical Terminology (1)**

This course is designed as an independent study using a programmed text. Initial emphasis is on learning Greek and Latin word parts and rules for combining them, with cumulative study directed to the analysis and definition of medical terms.

**MLS 226 Introduction to Laboratory Theory and Techniques (2)**

Basic concepts and principles in the practice of clinical laboratory science. Integration of principles of phlebotomy, microscopy, laboratory mathematics, spectrophotometry, and laboratory safety.

Prerequisite: CHM 158.

**MLS 312 Hematology/Cellular Pathophysiology (3)**

Topics include current concepts of hematopoiesis, including selected topics in red blood cell, white blood cell and platelet morphogenesis, physiology and pathophysiology; an introduction to the basic principles involved in cellular disease mechanisms.

Prerequisite: BIO 207 or BIO 321; permission of instructor.

**MLS 313 Immunohematology (4)**

Discussion of the immunologic and genetic basis for the study of red cell antigen/antibody systems, including physiologic and pathophysiologic consequences of foreign antigen exposure. Laboratory included.

Prerequisite: BIO 207 or BIO 321; MLS 323; permission of instructor.

**MLS 314 Hemostasis (3)**

In depth study of the basic physiology and pathophysiology of the human hemostatic system, including the role of the vasculature, platelets and plasma proteins. Laboratory included.

Prerequisite: BIO 207 or BIO 321; permission of instructor.

**MLS 316 Medical Hematology (4)**

Theory and techniques in hematology, including red blood cell, white blood cell and platelet morphogenesis, physiology and pathophysiology.

Prerequisite: BIO 207 or BIO 321; permission of instructor.

**MLS 317 Hematology Laboratory (1)**

To accompany MLS 316.

Prerequisite: Permission of instructor.

**MLS 323 Clinical Immunology (3)**

An introduction to the principles and practices of clinical immunology with emphasis on cellular and molecular interactions, using an experimental approach. The course will include the normal immune response and clinical conditions, including autoimmunity, immunodeficiency, hypersensitivity disorders and transplant rejection.

Prerequisite: BIO 207 or 321.

**MLS 326 Instrumentation and Clinical Analysis (3)**

An introduction to theoretical and practical aspects of instrumentation and clinical analysis. Includes practical experience in the calibration, operation and preventive maintenance of laboratory instruments. Laboratory included.

Prerequisite: Permission of instructor.

**MLS 327 Clinical Chemistry (4)**

A theoretical introduction to the fundamentals of clinical chemistry, with emphasis on pathophysiology and clinical correlations. To include an introduction to theoretical and practical aspects of relevant instrumentation and methods of clinical analysis.

Prerequisite: BIO 325.

**MLS 328 Clinical Chemistry Laboratory (1)**

Provides practical experience in the application of clinical instrumentation and current clinical methodologies to the performance of clinical chemistry assays.

Prerequisite: Successful completion of MLS 326 with grade of 2.0 or better.

**MLS 330 Clinical Microbiology (3)**

Provides a background in basic clinical microbiology, including the morphology, cultivation, identification and control of microorganisms.

Prerequisite: BIO 111 and 207 or BIO 321.

**MLS 331 Clinical Microbiology Laboratory (1)**

Laboratory to accompany MLS 330. Includes basic microbiological procedures such as aseptic technique, isolation, cultivating, biochemical characteristics and staining of selected microbes, with regard to their importance in the diagnosis of human diseases.

Corequisite: MLS 330.

**MLS 335 Clinical Parasitology/Mycology/Virology (4)**

Introduction to clinical parasitology, mycology and virology. Included are: morphology, life cycles, reproduction, classification and diseases in humans.

Prerequisite: BIO 111.

**MLS 400 Introduction to Molecular Genetics (2)**

An introduction to the molecular nature of genes and their roles in controlling the function, development and inheritance of organisms. Basic gene structure and function, molecular anatomy of the gene, DNA replication, functional genomics and current methods will be covered. Emphasis on human/medical genetics.

Prerequisite: BIO 325 and 207 or 321.

**MLS 401 Molecular Pathology (3)**

Introduces the cause and diagnosis of disease on a molecular level. Illustrates the use of molecular pathology as used in recent diagnostic methodology.

Prerequisite: BIO 325 and BIO 207 or 321; MLS 400.

**MLS 402 Molecular Diagnostics (2)**

Discussion of current molecular diagnostic techniques and procedures, including correlation with clinical conditions. Laboratory included.

Prerequisite: MLS 401.

**MLS 405 Special Topics (1, 2, 3 or 4)**

May be repeated for additional credit.

Prerequisite: Permission of instructor.

**MLS 440 Clinical Correlation (3)**

A problem-solving, multidisciplinary, case-study-based course which integrates material from the various clinical laboratory science disciplines. The course utilizes critical-thinking exercises to interpret data across disciplines, correlating results to disease problem-solving and quality assurances.

Prerequisite: MLS 313, 314, 316, 328 and 330.

**MLS 451 Clinical Education (6)**

Prerequisite: Permission of instructor.

**MLS 490 Individual Laboratory Work (2, 3, 4)**

May be repeated for additional credit.

Prerequisite: Permission of instructor.

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

Directed teaching of selected undergraduate courses. May be repeated for a maximum of 4 credits. Graded S/U.

Prerequisite: Permission of instructor.

**MLS 498 Directed Study (1-4)**

Student initiated and problem-oriented directed study focusing on medical laboratory science issues. May be repeated for additional credit.

Prerequisite: Program permission.



## NUCLEAR MEDICINE TECHNOLOGY

### **NMT 401 Clinical Internship I (12)**

Didactic and clinical experience in clinical nuclear medicine including instrumentation, radiopharmacy, ligand assay, organ imaging and therapy with radionuclides.

Prerequisite: Program permission.

### **NMT 402 Clinical Internship II (12)**

Continuation of NMT 401.

Prerequisite: Program permission.

## RADIATION THERAPY

### **RT 301 Introduction to Radiation Therapy (2)**

An introduction to the activities and responsibilities of the radiation therapist including orientation to school and hospital policies, career insights, overview of techniques used in radiation therapy, and essentials of procedures needed in the care of radiation oncology patients. Medical terminology specific to the field is reviewed.

Prerequisite: RT specialization standing.

### **RT 311 Patient Care and Management (2)**

Patient care techniques with emphasis on those necessary in the care and examination of oncology patients, especially those receiving radiation therapy. Psychological considerations, management of emergencies, infection control, examination, medical-surgical asepsis and tube management will be presented.

Prerequisite: RT specialization standing.

### **RT 315 Seminar in Radiation Oncology (3)**

Literature search of faculty approved topics related to radiation oncology with written analysis of case studies on various malignancies. Oral presentation required.

Prerequisite: RT specialization standing.

### **RT 321 Radiographic Imaging and Anatomy (2)**

Fundamentals of radiographic exposure techniques including production of radiation, rectification, quality of radiation and film processing. Topographic and cross-sectional anatomy and identification of anatomic structures as seen by various imaging modalities will be introduced.

Prerequisites: BIO 205 and RT specialization standing.

### **RT 323 Radiobiology (2)**

Biophysical principles of ionizing radiation and effects on living tissue with emphasis on radiosensitivity and response to radiation, including a review of cell biology. An introduction to hyperthermia as a treatment modality illustrating the cellular response to heat, methods of heating and interactions of heat and radiation.

Prerequisite: RT 331 and RT specialization standing.

### **RT 331 Radiation Physics (3)**

Fundamental principles of atomic structure and matter, production and properties of radiation, interactions of photons, particulate radiation, measurements of radiation and measurement of absorbed dose are covered. Discussions will include different radiation therapy treatment units.

Prerequisite: PHY 102 and RT specialization standing.

### **RT 333 Clinical Dosimetry (3)**

Basic concepts of clinical dosimetry including use of isodose charts, treatment planning, field defining apparatus and wedges. Different methods of dosimetric calculations are described. Emphasis is on conformal therapy, MLC dosimetry and three dimensional treatment planning.

Prerequisite: RT 331 and RT specialization standing.

### **RT 334 Brachytherapy and Radiation Protection (3)**

Principles of radiation safety including need for radiation protection, detection and measurement of radiation, regulatory agencies and regulations, personnel monitoring and practical radiation protection are presented. Also includes types and storage of brachytherapy sources, use and care of applicators, leak testing and surveys and accident procedures.

Prerequisite: RT specialization standing.

**RT 335            Quality Assurance (3)**

Principles and applications of a comprehensive quality assurance program in radiation therapy. Topics include relevant tasks, frequency of performance and acceptable limits. Laboratory exercises included.

Prerequisite: RT specialization standing.

**RT 341            Oncologic Pathology (3)**

Disease concepts including: inflammatory process, neoplasia, types of growth, causative factors, behavior of tumors and staging procedures. Tumors originating from specific sites and respective pathology will be discussed.

Prerequisite: BIO 207 and RT specialization standing.

**RT 342            Technical Radiation Oncology I (3)**

Provides an understanding of radiation therapy equipment including techniques used in treatment delivery. Tumor localization utilizing simulators, beam directing devices and other technical considerations involved are presented. The role of the radiation therapist in disease management will be discussed.

Prerequisite: PHY 102, BIO 205 and BIO 207, RT specialization standing.

**RT 343            Technical Radiation Oncology II (3)**

Continuation of Technical Radiation Oncology I.

Prerequisite: RT 342 and RT specialization standing.

**RT 344            Clinical Radiation Oncology (2)**

An overview of radiation oncology and its role in medicine as compared with surgery and chemotherapy as treatment modalities. Discussion of tumors including locations, etiology, detection, staging and grading, and treatment. Oncologic emergencies are presented.

Prerequisite: RT 341 and RT 342 and RT specialization standing.

**RT 401            Clinical Practicum (5)**

Supervised experience in the practice of radiation therapy technology. The student therapist will observe and participate in simulation procedures and delivery of radiation treatment to actual patients in the Radiation Oncology Department of William Beaumont Hospital. Patient care and management will be covered.

Prerequisite: Program permission.

**RT 402            Clinical Practicum (5)**

Continuation of RT 401.

Prerequisite: Program permission.

**RT 403            Clinical Practicum (2)**

Continuation of RT 402.

Prerequisite: Program permission.

**RT 404            Clinical Practicum (4)**

Continuation of RT 403.

Prerequisite: Program permission.

**RT 405            Clinical Practicum (6)**

Continuation of RT 404.

Prerequisite: Program permission.

**RT 406            Clinical Practicum (2)**

Continuation of RT 405.

Prerequisite: Program permission.

## Physical Therapy Program

**Director:** *Kristine A. Thompson*

**Special instructors:** *Christine Stiller, Kristine A. Thompson*

**Adjunct instructors:** *R. Elizabeth Black, Susan E. Saliga*

**Assistant professors:** *Douglas S. Creighton, Kathleen M. Galloway, Melodie Kondratak, John R. Krauss, Cathy A. Larson*

**Clinical professor:** *Beth C. Marcoux*

**Consulting professor:** *Olaf Evjenth*

**Clinical assistant professors:** *Pamela Lemerand, Gretchen D. Reeves, Bjorn W. Svendsen*

**Consulting assistant professor:** *Lasse Thue*

**Senior clinical instructors:** *Martha Schiller, David A. Tomsich*

**Clinical instructors:** *Sara Arena, Henry D. Boutros, Pamela S. Knickerbocker, Kathleen Jakubiak Kovacek, Peter R. Kovacek, Jeffrey Placzek, Frederick D. Pociask, Marilyn J. Raymond, Helene M. Rosen, Janet Siedel, Angela C. Strong, Jody Tomasic, Christopher Wilson, Kenneth M. Woodward*

## Requirements for the B.S. degree in health sciences with a focus in pre-physical therapy

See *Requirements for the B.S. degree with a major in health sciences and pre-physical therapy academic focus course requirements*. The information contained in those sections is repeated here with specific reference to pre-physical therapy academic focus requirements only:

1. Meet the university general education requirements (see *Undergraduate degree requirements*).
2. Complete the university U.S. diversity requirement. For health sciences majors, this requirement is satisfied by completing the health sciences core curriculum course HS 202.
3. Complete the prescribed number of credits from the following courses: BIO 111, 205, 206 or 322, 207 or 321; CHM 157, 158; EXS 204, 207, 304, 306, 350; HS 201, 202, 401, 450 (preferred or PHL 318 or HRD 303), 451; MLS 210, MTH 011 (or placement into "E" – credits do not count toward graduation), MTH 012 (or placement into "I" – credits do not count toward graduation), MTH 141 (or placement into "R"); PHY 101, 102, 158; PSY 100, 250, 225, 321, or 323; PT 302, 321; STA 225.
4. Complete a minimum of 10 elective 300/400 level credits from the following courses: BIO 323, 324, 325, 326, 341; CHM 453, 454, 457; EXS 360, 405, 410, 425, 435, 445, 450, 465, 493; HRD 335; HS 331, 359, 405; PHY 326; PSY 321, 323, 333, 338; PT 490; SOC 328; WHP (any 300/400 level); or any other 300/400 level course pre-approved in writing by the physical therapy program director.

## Course Offerings

### PT 302 Physical Therapy as a Profession (2)

A course for students who are considering a career in physical therapy. Students will examine professional development, behavior and roles in physical therapy clinical, academic and research settings. The current practice of physical therapy in various settings is covered.

Prerequisite: Junior standing.

**PT 321 Basic Athletic Training (2)**

Course directed to competitive sports and the recognition and immediate care of athletic injuries. Evaluative and treatment procedures and techniques are presented and practiced. Identical with EXS 321.

Prerequisite: BIO 205, BIO 207, EXS 350.

**PT 490 Directed Study (1, 2, 3 or 4)**

Student initiated and problem-oriented directed study focusing on physical therapy issues. May be repeated for additional credit. Graded numerically or S/U.

Prerequisite: Program permission.

## Wellness, Health Promotion, and Injury Prevention Program

**Director:** *Stafford C. Rorke*

**Associate professor:** *Stafford C. Rorke*

**Assistant professor:** *William C. Andress*

**Consulting associate professors:** *Robyn Brown, Stephen A. Cherniak, Robert S. Levin, David B. Siegel*

The wellness, health promotion, and injury prevention program prepares graduates to address growing societal needs for specialists in diverse allied health fields. Graduates find employment in a variety of commercial, industrial, government, hospital, community, and non-profit organizations. Their professional skills are utilized in health enhancement, disease prevention, injury prevention, health education/promotion, health and fitness, corporate and worksite wellness, as well as human resource practice and management.

The curriculum is designed to provide students with a broad-based introduction to this emerging multi-disciplinary field of study, but in addition, provides a specialization within one of seven focus areas: additional major in psychology; general health enhancement; intervention strategies in health promotion; complementary medicine; injury prevention; exercise science; and a pre-professional option. All focus areas for the major in wellness, health promotion and injury prevention can be completed within 128 credit hours. However, students taking the pre-professional focus should note that additional credit hours will be required in the biological sciences in order to satisfy entry requirements for most medical and related schools.

It is possible for students majoring in wellness, health promotion and injury prevention to take a minor in anthropology, exercise science, human resource development, marketing, psychology, sociology, occupational safety and health, or other minors, depending on the focus area chosen.

### Requirements for the B.S. degree with a major in wellness, health promotion, and injury prevention

Students seeking the Bachelor of Science degree in Wellness, Health Promotion, and Injury Prevention must complete 128 credits, including the following requirements:

1. Meet the university general education requirements (see Undergraduate degree requirements). Note that several courses under point 5 below satisfy both general education requirements, and wellness, health promotion, and injury prevention degree requirements. See courses marked \*.
2. Complete the university U.S. diversity requirement. For majors in wellness, health promotion, and injury prevention this requirement is satisfied by completing the core curriculum course, HS 202.

3. Complete the wellness, health promotion, and injury prevention core curriculum credits, as follows: WHP 300, 305, 310, 350, 360, 401, 402.
4. Complete courses that complement the core curriculum, as follows: ECN 150, EXS 204, EXS 207, EXS 215, EXS 360, HS 201, OSH 115, HS 451, HS 202 (satisfies U.S. diversity), HRD 310, PHL 103\*, PSY 100\*, PSY 250, PSY 338, STA 225\*. (\* Courses that also satisfy the university general education requirement).
5. Complete the required credit hours of program elective work for one of the chosen focus specialization areas below:
  - a. Additional major in psychology focus: Students intending to earn a psychology major must consult with a Department of Psychology faculty advisor and complete the required 40 credits for the psychology major as detailed below. Note that courses in bold italics are satisfied in the WHP core curriculum, namely 12 credits of psychology. Therefore, in this focus students must complete an additional 28 credit hours of psychology, and complete an additional course for 4 credits in either PSY or WHP, for a total of 32 credit hours. Students must declare the additional major in psychology by completing an additional major form, and must attain a minimum PGA of 2.00 over all psychology courses. Required courses: PSY 100, PSY 250, PSY 251 with a minimum grade of 2.0; plus 8 credits from PSY 215, PSY 225, PSY 235, PSY 245; plus one course from three of the following groups: 1) PSY 311, 316, 317, 318, 319, 415; 2) PSY 321, 322, 323, 327, 425; 3) PSY 330, 333, 337, 338, 339, 435; 4) PSY 341, 342, 343, 344, 445; plus 8 elective hours of psychology credits at any level, except PSY 399; plus a further 4 credit hours that must be offered from either WHP or PSY electives.
  - b. General health promotion focus: PSY 225; plus a minimum of 4 hours from PSY 215, PSY 235, PSY 245; plus 4 hours from one of the following groups: 1) PSY 311, 316, 317, 318, 319; 2) PSY 321, 322, 323, 327; 3) PSY 341, 342, 343, 344; plus an additional 20 credit hours, with the prior permission of the WHP Program Director, from any course offered in the School of Health Sciences; or, any health-related or social science course offered within the College of Arts and Sciences; or from other Schools in the University, preferably leading to the attainment of a complementary minor.
  - c. Complementary medicine and wellness focus: WHP 461, 462; PSY 318, plus an additional 8 elective credit hours from: AN 310, 420; HRD 351; PSY 316, 333, 337, 339, 342; SOC 328, 337, 402; plus 12 elective credit hours from the general elective list below. Students may choose a course not on the elective lists if pre-approved by the program director as pertinent to the field of complementary medicine and wellness.
  - d. Health promotion intervention strategies focus: HRD 306, HS 359, MKT 302, plus an additional 8 elective credit hours from: ACC 200, COM 303, COM 304, ECN 367, HRD 303, 351, 362, 363, 365, 367, 402, 440, IST 396, ORG 330, PS 359; plus 12 elective credit hours from the general elective list below. Students may choose a course not on the elective lists if pre-approved by the program director as pertinent to the field of health promotion intervention strategies.
  - e. Injury prevention focus: OSH 100, 331, 332, WHP 410, 420; plus an additional 15 elective hours from: ENV 355, EXS 465; OSH 235, 333, 334, 335, 336, 410, 423, 441, 442, 443, 444, 445, 446, 480 plus 4 elective credit hours from the general elective list below. Students may choose a course not on the elective lists if pre-approved by the program director as pertinent to the field of injury prevention.

- f. Exercise science focus: EXS 103, EXS 105 or 2 hours from EXS 101, 102, or 104. EXS 304, 306, 350 (prerequisites BIO 205, 207, 111 must be taken), plus 8 elective credit hours from the general elective list below. Students may choose a course not on the elective lists if pre-approved by the program director as pertinent to the field of exercise science.
- g. Pre-professional study: Pre-professional students must complete a core requirement of 26 credit hours from: MTH 141, BIO 205, 206, 207, 111, 113, 116, HS 401. In addition, choose 6 or more hours from BIO 319, 320, 323, 324, 325, 326, 341, 342, CHM 157-158, CHM 234-235, CHM 237, MLS 330, PHY 101-102, PHY 158.

NOTE: In addition to the core above, prospective physician assistant (PA) students will need general chemistry, organic chemistry and biochemistry. Entry to medical school requires a minimum of at least 20 credits of biology, 20 credits of chemistry, 10 credits of physics and 8 credits of mathematics.

7. All students declaring wellness, health promotion and injury prevention as their major must undertake a Health Risk Appraisal within their freshman or sophomore year. (satisfied in WHP 305 course).

General elective list: BIO 104, 300, 351, 393, 423, ENV 308, 355, EXS 101-105, 203, 205, 303, 304, 321, 350, 405, 406, 435, 410, 425, 445, 450, HS 450, HRD 306, HS 311, HS 331, 401, PHL 102, 318, PHY 131, WHP 208, 210, 325, 340, 370, 405, 410, 420, 461, 462, 493, plus any course on the general, complementary medicine, health promotion interventions, injury prevention, exercise science, or pre-professional focus group lists above. Other elective options in biology, business, anthropology, health sciences, psychology, sociology, human resource development or from the College of Arts and Sciences may be taken with the prior written approval of the program director.

## Minor in wellness, health promotion and injury prevention

A minor in wellness, health promotion and injury prevention is available to students majoring in other programs such as anthropology, general studies, health sciences, human resource development, psychology, or sociology. Courses required for the minor include: HS 201, 202, WHP 300, 305, 310, 350, EXS 204.

## Grade point policy

Students must maintain a cumulative GPA of 2.50 in all School of Health Sciences course work applied to the major. Students in the major will be placed on probation if they earn a grade less than 2.0 in any School of Health Sciences course or if their cumulative grade point average in School of Health Sciences course work falls below 2.50. Students who earn a second grade below 2.0 must have their programs reviewed by the faculty to determine remediation or termination from the program. In order to remove probationary status students must raise their School of Health Sciences grade point average to 2.50 or higher.

## Code of ethics

Since ethical conduct is critical to a health profession, students are required to abide by the Code of Conduct established by the American College of Sports Medicine. Violations will be reviewed by the faculty and could result in dismissal from the program.

## Course Offerings

The program offers selected courses from this catalog as warranted by student needs. Specific offerings for each term may be found in the schedule of classes.

**WHP 208      Advanced First Aid /CPR Instruction (2)**

Fundamentals of First Aid Instructor training are provided, leading to instructor certification. Students identify appropriate first aid and CPR teaching methods, apply appropriate individual and group learning facilitation skills, and become conversant with the teaching of several advanced first aid and safety modules.

Prerequisite: EXS 207.

**WHP 210      Water Safety and Lifeguard Training (2)**

Fundamentals of water safety and lifeguard instruction are covered, leading to certification. Students are provided with the knowledge and skills to prevent, recognize, and respond to water-based emergencies, and care for related injuries.

Prerequisite: EXS 207; ability to swim 400/m using breaststroke and front crawl stroke.

**WHP 300      Foundations, Assessment and Interventions in Wellness (4)**

A systems-approach to understanding functional anatomy, physiology and lifestyle issues in relation to disease prevention and wellness. Students learn health risk appraisal and physical assessment techniques that lead to the design of intervention strategies for lifestyle and health enhancement and the prevention of disease.

Prerequisite: HS 201 and EXS 204 with a minimum cumulative GPA of 2.5; RHT 160.

Corequisite: WHP 305.

**WHP 305      Lecture/Laboratory, Foundations, Assessment and Interventions in Wellness (4)**

Lecture/laboratory course to accompany WHP 300. Content covers theoretical and practical competencies for entry-level health promotion professionals.

Prerequisite: EXS 204 and HS 201 with a minimum cumulative GPA of 2.50; RHT 160.

Corequisite: WHP 300.

**WHP 310      Injury Prevention, Control, and Safety Promotion (4)**

Epidemiology of unintentional or intentional injuries, including violence: Topics include magnitude and cost to society, issues, principles, models, surveillance, advocacy, educational, environmental and enforcement intervention strategies, and program evaluation, for safety in the home, during activities of daily living, sport, leisure, recreational, occupational, and high-risk activities. *Satisfies the university general education requirement in the knowledge applications integration area. Satisfies the university general education requirement for a writing intensive course in general education or in the major, not both.*

Prerequisite: Completion of the university writing foundation requirement. Completion of the university general education requirement in either the natural science and technology or the social science knowledge exploration area. HS 201 or PSY 100 recommended.

**WHP 315      Laughter as therapeutic modality (4)**

Exploration of the health benefits of laughter therapy including mediatory effects on immune system functioning, pain reduction, and utility in stress management. Students will investigate the extant research relating to humor as a healing modality, while having opportunities to add to that knowledge through a laboratory component. *Satisfies the university general education requirement in the knowledge application integration area. Satisfies the university general education requirement for a writing intensive course in general education or the major, not both.*

Prerequisite: Completion of the university writing foundation requirement. Completion of the university general education requirement in either the natural science and technology or the social science knowledge exploration area. HS 201 or PSY 100 recommended.

**WHP 325      Issues in Women's Health (4)**

Examines medical, sociological, and financial aspects of women's health issues. Includes an historical look at women's health in the US, the roles that women have played in health care, and the roles of women as health care providers.

Identical with WS 325.

**WHP 340      Contemporary Issues in Personal Health (2)**

Contemporary issues in personal health are examined from biological, psychological, sociological, philosophical, and ethical perspectives. Exploration of personal protection and health issues related to human sexuality, substance use and abuse, anger, violence, and workplace abuse.

Prerequisite: HS 201.

**WHP 350 Health Program Implementation (4)**

Needs analysis, planning, design, development, equipment, choice, delivery, and evaluation of health and wellness program implementation are emphasized. Students are introduced to topics including organizational development, program, human and financial management, staff selection and development, marketing, facility maintenance, health, safety and legal issues.

**WHP 360 Wellness Facilitation (2)**

Processes designed to facilitate optimum human interaction in a wellness setting. Fundamental issues related to the presentation of health promotion messages for one-to-one, small, or large group settings. Topics include individual and group dynamics, development, written and oral presentation of wellness-related information, non-verbal communication, debate, persuasion, leadership, problem solving, change and conflict.

Prerequisites: HS 201 and PSY 100.

**WHP 370 Culture, Ethnicity and Well-being (2)**

Interaction between biological, social and cultural environments as they effect health, illness, and treatment. Includes historical, organizational, demographic, ecological, behavioral and other factors influencing health and wellness outcomes. *Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: PSY 100 and/or HS 201 recommended.

**WHP 401 Internship in Wellness, Health Promotion and Injury Prevention (4)**

Supervised general experiences in a variety of wellness educational settings. Students must be approved to attend an internship site prior to registration. A list of approved internship sites is available through the program office.

Prerequisite: EXS 204, EXS 207, EXS 215 or EXS 360, WHP 300, WHP 310 or OSH 115, and program director permission.

**WHP 402 Senior Culminating Experience (4)**

Supervised project and/or undergraduate research experience at a specialized site, culminating in a written report. Students must have an approved project and site prior to registration.

Prerequisite: PSY 250, STA 225, WHP 401 recommended or concurrent, and program director permission.

**WHP 405 Special Topics (1-4)**

An advanced course involving study of current topics in the practical application of wellness principles. Topics vary. May be repeated for additional credit.

Prerequisite: Permission of instructor.

**WHP 410 Advanced Injury Prevention, Control and Safety Promotion (1-4)**

Directed study/project covering factors associated with non-industrial events resulting in injury or death, including critical appraisal of intervention strategies, and/or the design and delivery of a comprehensive intervention program.

Prerequisite: WHP 310.

**WHP 420 Ergonomics (3)**

Functional application of concepts in kinesiology related to human capability and applied to human work in various occupational settings. Students are introduced to human-machine interface systems, environmental challenge and wellness objectives of reduced energy expenditure, enhanced health and safety, and increased productivity and human satisfaction. Cross-listed with OSH 445.

Prerequisite: WHP 300.

**WHP 461 Modalities for Healing (4)**

Healing differentiated from curative approaches, and an introduction to frequently used complementary and alternative therapies including massage, hypnosis, herbology, osteopathic manipulation, acupuncture, chiropractic, naturopathy and homeopathy. Critical examination of the techniques used, possible mechanisms, evidence for safety and efficacy, and professional training/credentialing.

Prerequisite: HS 451.



**WHP 462          Healing Traditions (4)**

This course examines and compares Eastern and Western healing traditions. Origin, evolution, applications, and degree of acceptance of these healing traditions is examined with regard to individual beliefs, and in relation to cultural, historical, political, and economic aspects of competing health systems.

Prerequisite: HS 451.

**WHP 493          Directed Study and Research in Wellness, Health Promotion and Injury Prevention (1-4)**

Independent problem-directed study and research focusing on wellness, health promotion and injury prevention issues. May be repeated for additional credit.

Prerequisite: Program director permission.

# THE HONORS COLLEGE

112 E. VANDENBERG HALL

(248) 370-4450

**Director:** *Jude V. Nixon (English)*

**Council:** *Susan Awbrey, Vice Provost of Undergraduate Education; Neils Herold, English; Paul J. Kubicek, Political Science; Barbara U. Mabee, Modern Languages and Literature; Fatma Mili, Computer Science and Engineering; Michael D. Sevilla, Chemistry; Anandi P. Sahu, Economics; Toni S. Walters, Education; Susan Wood, Art History; two sophomore, two junior, and two senior Honors College students.*

The Honors College was established to provide highly motivated students an intellectually stimulating community. The curriculum offers a distinctive undergraduate experience that integrates the arts, sciences, and professional fields through creative research, colloquia, scholarly and extra-curricular activities, as well as leadership and service opportunities within the university and larger community. It offers specially designed general education requirements, in conjunction with a departmental major.

Students applying to The Honors College must first be admitted to or enrolled at Oakland University. Application forms are available online or at The Honors College office.

Courses with the HC prefix are open only to students who have been accepted into The Honors College. Please visit our website at [www2.oakland.edu/hc](http://www2.oakland.edu/hc) for additional information on The Honors College, its programs and requirements.

## Requirements and Procedures

### Departmental majors

Each student must complete a departmental major in the College of Arts and Sciences or a prescribed course of study in the School of Business Administration, the School of Education and Human Services, the School of Engineering and Computer Science, the School of Health Sciences or the School of Nursing.

A student who is not pursuing a standard major (for example, a student with an independent major) may be accepted to The Honors College if The Honors College Council determines that the student's program is of sufficient breadth, depth and coherence.

### General education requirements of The Honors College

1. The student must successfully complete at least four Honors College core courses (16 credits), selected from HC 201, 202, 204, 205, 206, 207 or 208.
2. The student must successfully complete at least one approved general education course in each of the ten knowledge areas that are not covered by the HC core courses taken.
3. The student must complete an approved writing intensive course in general education, a writing intensive course in the major, a diversity course and a capstone. These four requirements may be met by courses that double count in other general education areas or in the major.
4. The student must attain second-year foreign language proficiency.
5. The student must successfully complete HC 390.

Note: Honors College requirements partially replace university general education requirements and replace distribution requirements for students in the College of Arts and Sciences.

### **Senior Colloquium**

The student must successfully complete the senior colloquium and thesis requirement. HC 401 [The senior colloquium and thesis can double count as the student's capstone course and as the writing intensive course in general education.]

### **Community Service**

The student must complete the Community Service requirement - one semester or a six-week period during the summer of approved community service.

### **Good standing**

The student must maintain good standing in The Honors College at all times. A copy of "Good Standing Guidelines" is available in The Honors College office or online.

### **Honors Thesis**

Each Honors College student must successfully complete a major creative or scholarly project under the supervision of a faculty mentor. Proposals for all Honors College theses must be approved by The Honors College Council prior to proceeding with work and before students complete their junior year. The thesis must be approved within the first four weeks of the semester in which the student completes 96 credits.

The student may receive departmental or Honors College independent study credit for all or part of this work. The student may, but is not required to, register for HC 490. The project must be independently designed and completed. The completed thesis is due no later than six weeks before the end of the semester in which the student intends to graduate.

### **Grade point average and graduation honors**

A minimum grade point average of 3.50 is required for graduation. The diploma indicates that the student is a graduate of The Honors College.

### **Course Offerings**

The Honors College 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 list of courses comprises The Honors College core.

#### **HC 201            Art (4)**

Designed to provide an understanding of how art embodies and reflects particular perceptions and expressions of the world. This course helps students understand and appreciate the beautiful and develop aesthetic criteria whereby to better appreciate art and the way it captures human experience.

#### **HC 202            Literature (4)**

Prepares students with strategies of how to read, understand, and appreciate literary texts. The course also makes it possible for students to enter into a vicarious experience, which, as George Eliot puts it, is the most important thing we owe the artist.

#### **HC 204            Western Civilization (4)**

Explores the political, social, economic, and intellectual aspects of Western culture, and how Western culture and ideas have been constituted.

**HC 205 Global Perspective (4)**

Examines non-Western culture to show the similarities and differences among cultures. It reads the international scene from its own points of entry and explores how non-Western cultures view the West.

**HC 206 Social Science (4)**

Looks to social science and its particular methods of scientific inquiry. Of particular interest are the ways societal and cultural factors influence and shape individual and/or group behaviors and values.

**HC 207 Formal Reasoning (4)**

Examines systematic and/or creative ways to approach, process, and analyze data and ideas from different disciplines. The course concerns itself with quantifiable evidence and symbolic systems of analysis.

**HC 208 Natural Science or Technology (4)**

Provides students with an introduction into the major fields of natural science and technology. While the natural science focus acquaints students with things pertaining to the natural world, whether biological, physical, chemical, or environmental, the technology focus introduces students to ancient and/or current means of technology.

**HC 390 Introduction to Thesis (1)**

Required for Honors College students in the first semester of their junior year. The course addresses such topics as deriving a thesis statement, researching in the disciplines, research techniques, appropriate documentation, and writing the thesis proposal.

Prerequisite: Minimum of 3 HC courses and completion of language requirement.

**HC 401 Honors College Senior Colloquium (4)**

Discussion of a broad topic on an issue or issues of particular current significance. The goal of the colloquium is to engage a single idea or a constellation of ideas for intersections, interrelatedness or divergence. Offered winter semester.

Prerequisite: Completion of the Core curriculum and language requirement.

**HC 490 Independent Study (2 or 4)**

Supervised instruction of The Honors College thesis or independent project. May be repeated for credit. Offered each semester.

# INTERNATIONAL EDUCATION

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322 Wilson Hall

(248) 370-4131

**Director:** *Margaret B. Pigott*

**International Education Council:** *William Address, David Archbold, Susan Aubrey, Linda Benson, Peter J. Bertocci, Carolyn O'Mahony, Margaret B. Pigott, Andrew Rusek, Nancy Schmitz, Deepak Sethi*

The mission of the Office of International Education is to encourage Oakland University students and faculty to study, conduct research, and teach in international settings, and to facilitate and encourage the presence of foreign students and faculty on our campus. The Office seeks to increase and intensify the University's involvement in global education through agreements with universities and other appropriate institutions around the world. It also serves as a resource center for the Oakland academic community by providing information on international study and research opportunities for faculty and students. Through such endeavors, the Office affirms the importance of a global outlook as an essential part of the university's overall mission.

## Course Offerings

The following courses are designated as international education courses and may be taken to earn credit for study abroad. Those courses marked by an asterisk (\*) directly generate credit from study abroad programs with which Oakland is associated. All others are independent study, or internship courses in which students may receive school or departmental credit for projects undertaken while traveling, working or studying abroad. In addition, all courses under the 399, Field Experience, rubric may be used for the same purpose. These projects must be individually arranged with and supervised by an instructor, whose permission is required to take the course in which the project will be done. The graduate level courses that appear below are open to undergraduate students with instructor permission.

### International Education Courses:

**College of Arts & Sciences:** ENG 300, HST 390, LIN 490, IS 300, 361-364\*, 365-368\*, 370-373\*, 390, 470-473, 490; ML 399; MUS 499, THA 490, DAN 490, PHL 390; PS 390, 490; COM 380, 480; AN 399, 480; ENV 390

**School of Business:** MGT 490, 526 (see graduate catalog), 690 (see graduate catalog)

**School of Education and Human Services:** EED 455, EST 570 (see graduate catalog), RDG 590 (see graduate catalog) and SE 590 (see graduate catalog)

**School of Health Sciences:** EXS 493, MLS 498, OSH 490, PT 490, WHP 370

**School of Engineering and Computer Science:** ME 494, CSE 494

**The Honors College:** HC 490

# SCHOOL OF NURSING

428 O'DOWD HALL

(248) 370-4253  
Fax: (248) 370-4279

**Dean:** *Linda Thompson Adams*

**Interim Associate Dean:** *Diane M. Norris*

**Office of the Dean:** *Sherry Abernathy, assistant dean; Pamela A. Marin, assistant dean; Amy Johnson, administrative project coordinator; Patricia T. Ketcham, nursing laboratory manager; Caroline Landrum, information technology specialist; Sarah E. Mullin, academic adviser; Kristina White, admissions adviser/recruiter*

**Professors emerita:** *Justine Speer, Diane R. Wilson, Carol Zenas*

**Professor:** *Anahid Kulwicki*

**Associate professors:** *Frances C. Jackson, Mary E. Mittelstaedt, Gary Moore, Sarah E. Newton, F. Darlene Schott-Baer, Christina L. Steloff*

**Assistant professors:** *Karen Dunn, Judith K. Hovey, Suha Kridli, Anne Mitchell, Diane Norris, Barbara B. Penprase, Cheryl Riley-Doucet, Laureen Smith*

**Full-time adjunct instructors:** *Wanda Gibson-Scipio, Carrie Motyka, Karen Olsen*

**Adjunct assistant professors:** *Patricia T. Ketcham, Karen Zaglaniczny*

**Adjunct instructors:** *Colleen Beauchamp, Palemonita Jones, Lisa Ann Mileto, Laura Rodgers, John Roebuck*

## Board of Visitors

The Board of Visitors for the School of Nursing is composed of community leaders in the greater Detroit area. It assists the school in developing goals and objectives, curricular design, as well as clinical and research programs that meet the rapidly changing requirements of the health care field. Board members consult on such matters as facilities, equipment requirements, special topics and long-range planning.

Members of the Board of Visitors are:

*Marie Adam, Senior Occupational Health Services Specialist, DaimlerChrysler Corp.*

*Maggie Allesee, Counselor, Bloomfield Hills, Michigan*

*Nancy Burton, Vice President of Operations, St. John Detroit Riverview Hospital*

*Bart P. Buxton, Vice President and CEO, Lapeer Regional Hospital*

*Carl Camden, President and COO, Kelly Services*

*Lisa DeMoss, Vice President and Deputy General Counsel, Blue Cross Blue Shield of Michigan*

*Nancy Hakala, Director and Manager, Wright & Filippis*

*Kathleen Hallberg, Relationship Manager and Vice President, Standard Federal Bank*

*Paula Hebert, Director of Emergency Services, Providence Park*

*Frank W. Jackson III, Assist. General Counsel, Blue Cross Blue Shield of Michigan*

*Theresa Jones, President and CEO, Northwestern Dodge*

*Patricia Jorgensen, Rehabilitation Consultant, Jorgensen Consulting*

*Barbara Kopasz, Associate Vice President, Purchaser Health Care Initiatives, Health Alliance Plan*

*Michael Kulwicki, Manager of Private Banking, McDonald Financial Group*

*Karen Lucas, Independent Consultant, KML Consulting, LLC*

*David Martin, President & CEO, Health Care News Alliance*

*Barbara R. Medvec, Chief Nursing Officer, Oakwood Healthcare System*

*Patricia Natale, Vice President Patient Care Services, Detroit Receiving Hospital*  
*Margo Riza, Regional Operations Manager, Special Tree Rehabilitation System*  
*Kathleen Ryan, Vice President Operations – Acute Services, Providence Hospital and Medical Center*  
*Joan M. Simon, Vice President Clinical Services, Mt. Clemens General Hospital*  
*Karen Standfest, Vice President of Patient Care & CEO, St. Joseph Mercy of Macomb*  
*Nancy Susick, Assistant Hospital Director, William Beaumont Hospital, Troy*  
*Kathleen VanWagoner, Chief Nurse Executive, Crittenton Hospital Medical Center*  
*Christine Zambricki, Administrative Director and Chief Nursing Officer, William Beaumont Hospital, Royal Oak*

## **Programs Offered**

### **Undergraduate program**

The School of Nursing offers instruction leading to the Bachelor of Science in Nursing (B.S.N.) degree. The course of study combines general education in the humanities and the social, biological and natural sciences with education in the theory and practice of nursing. Graduates are eligible to take the state registered nurse licensure examination. Full and part-time program sequences are provided for baccalaureate students. An accelerated Second-Degree B.S.N. and a R.N.-B.S.N. Degree Completion Sequence are also available.

### **Undergraduate program objectives**

In keeping with the philosophy of the School of Nursing, the baccalaureate graduate achieves the following outcome competencies:

1. Demonstrates critical thinking through synthesis of knowledge from the humanities and the sciences in the application of the nursing process to the independent and collaborative practice of professional nursing (ANA Standards of Care, I-V).
2. Applies ethically and legally grounded clinical judgments supported by research in making decisions about the provision of professional nursing care (ANA Standards of Professional Performance, II, III, V & VII).
3. Demonstrates effective communication skills and proficiency in information management, including standardized nursing languages, and technology in delivering safe, effective and cost-efficient professional nursing care based on current best practices (ANA Standards of Professional Performance I, III, VII, & VIII).
4. Demonstrates adherence to the ANA Standards of Professional Performance when delivering nursing care across the life span to diverse client populations in a wide variety of settings (ANA Standards of Professional Performance I-VIII).
5. Acquires the foundation for continued study at the graduate level.

### **Graduate program**

The School of Nursing offers a program of study leading to the Master's of Science in Nursing (M.S.N.) degree. This program prepares nurses for advanced nursing practice as family nurse practitioners, adult/gerontology nurse practitioners, nurse anesthetists, nurse educators or clinical nurse specialists. Post-master's certificate programs are also offered in the practitioner and nurse anesthesia tracks. A Graduate Certificate in Nursing Education is offered for post-B.S.N. or post-M.S.N. students. A R.N.-M.S.N. program is available for diploma or associate degree prepared registered nurses who wish to follow an

accelerated plan of study for the M.S.N. in Adult Acute Care Clinical Nurse Specialist, Family Nurse Practitioner or Nursing Education. For more information, see the *Oakland University Graduate Catalog*.

## Admission

Students wishing to enter the nursing program will have completed two years of high school mathematics, including algebra, one year of biology and one year of chemistry with a grade of B or better in each course. ACT scores are also considered.

Admission to the School of Nursing occurs in one of four ways: (1) direct admission in the freshman year (Track I), (2) admission after completion of prerequisite courses (Track II) as space permits, (3) as a second degree student into an accelerated program of study, or (4) as a registered nurse into a degree completion sequence. The School of Nursing encourages and actively seeks male and other minority applicants. Individuals with disabilities will be considered for admission to the School of Nursing on an individual basis related to their ability to meet clinical practice requirements and the core performance standards.

### Direct admission into freshman year (Track I)

This track is for students entering the School of Nursing directly from high school. Transfer students are not eligible for Track I admission. Applicants who meet the following requirements are eligible for direct admission into the School of Nursing on a space available basis:

- Recalculated High School GPA of 3.20 or above (recalculation includes all math, English, biology, and chemistry courses, but excludes psychology courses as well as those courses deemed to be remedial)
- ACT math score of 20 or higher
- ACT English score of 20 or higher
- ACT composite score of 22 or higher
- A minimum of one year (each) of high school biology and chemistry with a grade of B or higher in each semester.

Students who are admitted into Track I must adhere to the following requirements during the first two semesters of the freshman year at Oakland:

- Grades of 2.5 or better in NRS 206
- Grades of 2.5 or better in all non-nursing courses
- Overall cumulative GPA of 3.00 or better in all non-nursing courses

Track I students who do not meet the freshman year requirements as stated above will be reclassified as pre-nursing and should submit a Track II application to be evaluated for admission with Track II applicants.

### Admission after the freshman year (Track II)

Students who are admitted to the undecided nursing major (below 2.80 high school GPA), pre-nursing (above 2.80 high school GPA) major upon entry to Oakland University or upon changing their major are eligible to apply to the School of Nursing once the following requirements are met:

- Complete BIO 111, 121; CHM 104, 201; RHT 150, 160; and PSY 100 with a minimum grade of 2.5 in each course and a minimum overall GPA of 3.00
- Complete one philosophy course (PHL 101, 102, 103, 107, 204, 205, or 206) with a minimum grade of 2.5
- Complete MTH 011 with a minimum grade of 2.5 (this requirement is waived for students who receive a score of 18 or higher on the mathematics subsection of the American College Test (ACT) or who have taken an Oakland University placement test and have placed into MTH 012 or higher)

Students are admitted to the School of Nursing on a competitive basis. In addition to the admission requirements listed, the applicant must be in good standing in the university



(minimum overall GPA of 2.00). Completion of minimum requirements does not guarantee admission. Openings are filled with applicants best qualified to succeed in the nursing program. Preference is given to students who have completed five or more pre-nursing courses (excluding MTH 011) at Oakland University with a cumulative grade point average (GPA) of 3.00 or better in courses used in the calculation of the pre-nursing grade point average.

### **Admission into the Accelerated Second-Degree B.S.N. Program**

Admission to Oakland University as a pre-nursing second degree student is required in order to be eligible for admission to the School of Nursing in the Accelerated Second-Degree B.S.N. program. The deadline for application is August 30 for admission the following Spring (May).

Students who meet the criteria in items 1-4 listed below are eligible for conditional admission with full admission pending completion of items 5-7 listed below:

1. Adherence to the Undergraduate School admission requirements for a second-degree student.
2. Minimum overall GPA of 3.0, with a minimum grade of 2.5 in each of the following courses: BIO 111, BIO 121, CHM 104, CHM 201 and PSY 100. Completion of Philosophy and Math 011 with a minimum grade of 2.5
3. A 500-1,000 word written goal statement.
4. A faculty interview.
5. Completion of PSY 225 and BIO 307, with a grade of 2.5 or higher. (May be taken fall or winter semester prior to the spring start date.)
6. NRS 220, NRS 227 and NRS 308 (May be taken in winter semester prior to the spring start date.)
7. Completion of university general education requirements prior to spring start date.

### **Admission clinical requirements**

Admission to the nursing program is contingent upon meeting all clinical requirements. Specific details will be provided with the letter of admission. Requirements include:

1. Submission of a completed health assessment, including inoculation for tetanus; skin testing or chest x-ray for tuberculosis; proof of immunity to rubella, rubeola, mumps, varicella and Hepatitis B (or formal refusal of Hepatitis B vaccination).
2. Meeting minimum physical, cognitive and psychosocial technical standards for clinical/field and laboratory experiences (see *core performance standards*). Students with disabilities who have questions about their ability to meet these standards are encouraged to contact the Office of Disability Support Services, 106 North Foundation Hall (248-370-3266).
3. Malpractice insurance coverage of at least \$1,000,000 per occurrence/\$3,000,000 aggregate.
4. Documented completion of an approved CPR course.

The following are required by clinical agencies where students are placed for clinical experience:

1. Criminal background check.
2. Urine drug screen.

Students are responsible for any costs associated with the requirements described above. Students accepted to the nursing program must submit proof of all the above requirements

by the published deadline date (per program plan). All requirements must remain in effect throughout the academic year. Students who have not provided necessary documentation by July 15 will not be allowed to enroll in clinical nursing courses. Students must maintain their own health insurance for illness or injury. Clinical agencies are not required to provide free treatment for students and will bill individuals for use of their emergency or employee health services.

## Advising

The School of Nursing Advising Office is located in 444 O'Dowd Hall (248-370-4253). It is recommended that students schedule an advising appointment during the freshman/pre-nursing year(s) to review degree requirements and develop a plan of study. The plan of study is a timetable of courses to be taken and assures progress toward satisfying degree requirements. In addition, students are required to attend a School of Nursing orientation prior to beginning the nursing program.

## Transfer policy

Programs offered by the School of Nursing are designed to meet the Commission on Collegiate Nursing Education (CCNE) accreditation criteria as well as to reflect the Oakland University philosophy of education. Records of students transferring to Oakland University from other academic institutions are evaluated and transfer credit is granted as appropriate. Once matriculated at Oakland, students are expected to complete all remaining nursing course work for the degree at Oakland. See *Transfer student information* in this catalog for additional information about the university transfer policies, including transfer of credit from community colleges.

## Inactive status

Students can request inactive status for personal or academic reasons in the School of Nursing for a period of up to one year. Their return to the program is contingent upon availability of space. Students who return to the nursing program from inactive status must comply with all School of Nursing policies in effect when they return.

## Policies and procedures

Once admitted to the nursing program, students should consult the School of Nursing Undergraduate Student Handbook for detailed information on program policies and procedures.

## Requirements for the Bachelor of Science in Nursing degree

To earn the Bachelor of Science in Nursing degree, students must complete a minimum of 125 credits and meet the following requirements:

1. Complete the University general education requirements.
2. Complete the University general education requirement in U.S. diversity by taking NRS 302 in the standard plan and NRS 450 in the degree completion sequence for registered nurses.
3. Complete all credits and courses as listed in the following plan of study or in the degree completion sequence for registered nurses.
4. Achieve a grade of at least 2.5 in all nursing courses.
5. Complete at least 32 credits in courses at or above the 300-level.

## Plan of study for direct admission into freshman year (Track I)

Fall		Winter	
<b>FRESHMAN</b>		<b>FRESHMAN</b>	
CHM 104	Introduction to Chemical Principles (4)	CHM 201	Organic and Biological Chemistry (4)
BIO 111	Biology (4)	BIO 121	Clinical Anatomy and Physiology (5)
RHT 150	Composition I (4)	RHT 160	Composition II (4)
PSY 100	Foundations of Contemporary Psychology (4)	NRS 206	Intro. to Professional Nursing (2)
	16		15
<b>FRESHMAN Spring/Summer</b>			
PSY 225	Intro to Life-Span Developmental Psychology (4)		
	General Education (4)		
	8		
Fall		Winter	
<b>SOPHOMORE</b>		<b>SOPHOMORE</b>	
PHL 101, 102, 103, 107, 204, 205, 206 (select one)	(4)	NRS 210	Nursing Therapeutics II (2)
NRS 207	Nursing Therapeutics I (1)	NRS 220	Nutrition in Nursing Practice (2)
NRS 208/209	Health Assessment/Lab (3/1)	NRS 227	Pathophysiology (3)
NRS 213	Basic Clinical Competencies I (1)	NRS 302	Nursing: Vulnerable Populations (3)
NRS 216	Wellness and Health Promotion (3)	BIO 303	Basic Clinical Competencies II (2)
NRS 252	Scientific Inquiry I (2)	NRS 307	Intro to Human Microbiology (4)
	15		16
Fall		Winter	
<b>JUNIOR</b>		<b>JUNIOR</b>	
NRS 308	Pharmacology in Nursing (3)	NRS 328	Acute Health Needs II (4)
NRS 326	Acute Health Needs I (5)	NRS 336, 337, 338	Acute Care Clinical (2+2) (4)
NRS 336, 337, 338 (One of three)	Acute Care Clinical (2)		(Two of three)
	General Education (4)	NRS 354	Nursing Care Management (2)
	14	NRS 452	Scientific Inquiry II (3)
			13
Fall		Winter	
<b>SENIOR</b>		<b>SENIOR</b>	
NRS 428	Community Nursing (3)	NRS 472/473	NRS Synthesis/ Clinical (1/5)
NRS 470	Chronic Health Conditions (3)		General Education (4)
NRS 471, 477	Chronic Care Clinical (2+2) (4)		General Education (4)
	General Education (4)		14
	14		
Total: 125 credits			

Note: General Education courses may be taken in any semester throughout the program.

## Plan of study for admission after the freshman year (Track II)

Students who are admitted to the School of Nursing after the freshman year complete the same prerequisite coursework as direct admission students, with the exception that they will take NRS 206 (Introduction to Professional Nursing) in the fall semester sophomore year and take a philosophy course as a pre-nursing course requirement. A part-time plan of study is available upon request.

<b>Fall</b>		<b>Winter</b>	
<b>FRESHMAN</b>		<b>FRESHMAN</b>	
*CHM 104	Introduction to Chemical Principles (4)	*CHM 201	Organic and Biological Chemistry (4)
*BIO 111	Biology (4)	*BIO 121	Clinical Anatomy and Physiology (5)
*RHT 150	Composition I (4)	*RHT 160	Composition II (4)
*PSY 100	Foundations of Contemporary Psychology (4)	PHL 101, 102, 103, 107, 204, 205, 206 (select one)	(4)
	16		17
<b>Spring/Summer</b>			
<b>FRESHMAN</b>			
**PSY 225	Intro to Life-Span Developmental Psychology (4)		
	General Education (4)		
	8		
<b>Fall</b>		<b>Winter</b>	
<b>SOPHOMORE</b>		<b>SOPHOMORE</b>	
NRS 206	Intro to Professional Nursing (2)	NRS 210	Nursing Therapeutics II (2)
NRS 207	Nursing Therapeutics I (1)	NRS 220	Nutrition in Nursing Practice (2)
NRS 208/209	Health Assessment/Lab (3/1)	NRS 227	Pathophysiology (3)
NRS 213	Basic Clinical Competencies I (1)	NRS 302	Nursing: Vulnerable Populations (3)
NRS 216	Wellness & Health Promotion (3)	NRS 303	Basic Clinical Competencies II (2)
NRS 252	Scientific Inquiry I (2)	BIO 307	Intro to Human Microbiology (4)
	13		16
<b>Fall</b>		<b>Winter</b>	
<b>JUNIOR</b>		<b>JUNIOR</b>	
NRS 308	Pharmacology in Nursing (3)	NRS 328	Acute Health Needs II (4)
NRS 326	Acute Health Needs I (5)	NRS 336, 337, 338	Acute Care Clinical (2+2) (4)
NRS 336, 337, 338	Acute Care Clinical (2)	(Two of three)	
(One of three)		NRS 354	Nursing Care Management (2)
General Education (4)		NRS 452	Scientific Inquiry II (3)
	14		13
<b>Fall</b>		<b>Winter</b>	
<b>SENIOR</b>		<b>SENIOR</b>	
NRS 428	Community Nursing (3)	NRS 472/473	NRS Synthesis/ Clinical (1/5)
NRS 470	Chronic Health Conditions (3)		General Education (4)
NRS 471, 477	Chronic Care Clinical (2+2) (4)		General Education (4)
	General Education (4)		14
	14		

Total: 125 credits

\* Courses used in the calculation of the pre-nursing grade point average.

\*\* PSY 225 may be taken spring/summer prior to sophomore fall semester or during sophomore fall semester.

Note: Completion of MTH 011 with a minimum grade of 2.5 is required for admission to the School of Nursing. This requirement is waived for students who receive a score of 18 or higher on the mathematics portion of the American College Test (ACT). Credits for MTH 011 do not apply to any degree at Oakland University. General education courses may be taken in any semester throughout the program.

## Plan of study for Accelerated Second-Degree B.S.N.

Students who are admitted to the Accelerated Second Degree program will follow the Plan of Study shown below:

<b>Spring/Summer</b>			<b>Fall</b>		
NRS 280/281	Nursing Practice Concepts/Clinical	(4/1)	NRS 382/383	Women's Health Nursing Clinical	(3/2)
NRS 282/283	Health Assessment Across The Life Span/Lab	(3/1)	NRS 384/385	Nursing of Children/ Clinical	(3/2)
NRS 284/285	Principles of Nursing Practice/Clinical	(2/1)	NRS 386/387	Mental Health Nursing/ Clinical	(2/1)
NRS 380/381	Comprehensive Adult Nursing I Clinical	<u>(3/2)</u>	NRS 480/481	Comprehensive Adult Nursing II/Clinical	<u>(3/2)</u>
		17			18
<b>Winter</b>					
NRS 482	Research Basis of Nursing	(3)			
NRS 483	Community Public Health Nursing	(3)			
NRS 484/485	Transition into Nursing Practice/Clinical	<u>(3/6)</u>			
		15			

TOTAL: 50 Credits

## Clinical placements

Nursing students are placed in a variety of settings throughout their academic program. The School of Nursing provides students with a range of experiences with diverse populations, organizations and agencies. Cooperating agencies are located in both urban and suburban settings throughout metropolitan Detroit and southeastern Michigan. Each student is responsible for providing his or her own transportation for all clinical experiences.

## Annual clinical requirements

The requirements listed below must be renewed annually and remain in effect throughout the academic year. By the published deadline each year, students in the nursing program must supply written validation of:

1. Skin testing for tuberculosis and/or chest x-ray.
2. Malpractice insurance coverage of at least \$1,000,000 per occurrence/\$3,000,000 aggregate.
3. Documented completion of an approved CPR course.

The following are required by clinical agencies where students are placed for clinical experience:

1. Criminal background check.
2. Urine drug screen.

Students are responsible for any costs associated with the requirements described above. Students who have not submitted all of the above items prior to the deadline will not be assigned to a clinical placement until requirements are met.

## **Bachelor of Science in Nursing completion sequence for registered nurses**

The School of Nursing offers registered nurses an opportunity to earn a Bachelor of Science in Nursing degree. The purposes, philosophy and outcome expectations for the B.S.N. program are the same for basic and registered nurse students. However, course objectives and teaching methodologies take into account the professional and life experiences of R.N. students.

Students who have satisfactorily completed a diploma or associate degree program in nursing and who possess a valid R.N. license may apply for admission to the B.S.N. program. A cumulative GPA of 2.50 or better is required for admission to the R.N./B.S.N. degree completion sequence.

Registered nurses with a GPA below 2.50 may be admitted to the University under pre-R.N./B.S.N. status and change to R.N./B.S.N. status upon completion of a minimum of 12 credits (applicable to the nursing program) at Oakland University with a GPA of 2.50 or higher.

Registered nurses must complete all credits and/or courses in the degree program.

Completion may be achieved in the following manner:

1. Graduates from an accredited diploma program will be granted the equivalent of 32 nursing credits through a course competency process.  
This process includes:
  - a. Successful completion of the NCLEX-RN examination.
  - b. Evidence of a valid RN license.
  - c. Registration for competency credits.
2. Graduates from a regionally accredited associate degree nursing program may transfer a maximum of 13 nursing credits and 50 credits applied toward required non-nursing and general education categories. In addition, a maximum of 19 nursing credits will be granted through a course competency process.  
This process includes:
  - a. Successful completion of the NCLEX-RN examination.
  - b. Evidence of a valid RN license.
  - c. Registration for competency credits.
3. Required Nursing courses for the R.N.-B.S.N. program:
 

NRS 310	Conceptual Foundations of Practice	4
NRS 340	Health Promotion in the Community	4
NRS 355*	Nursing Leadership & Health Care Issues	4
NRS 426	Nursing: Home & Community/RN	4
NRS 450*	Nursing: Vulnerable Populations for the RN	4
NRS 452	Scientific Inquiry II	4
NRS 474	Nursing Synthesis for the RN	4
NRS 475	Nursing Synthesis for the RN Clinical	4
Total required nursing credits:		32

\*For students admitted to the R.N.-M.S.N. program NRS 355 and NRS 450 are replaced by:

NRS 515	Vulnerable Populations and Social Issues	4
NRS 516	Health Policy, Finance and Nursing Management	4

4. Nursing assessment skills must be validated before registering for NRS 474/475 using one of the following methods:
  - a. completion of a health assessment course equivalent to OU SON health assessment course  
OR
  - b. letter of verification from current (or most recent) supervisor validating assessment skills AND practice as an RN performing health assessment skills within the last three years

A unique plan of study is prepared for each student by an academic adviser in the School of Nursing to assure that all Oakland University degree requirements and major requirements are satisfied.

## Master of Science in Nursing completion sequence for registered nurses

The R.N./M.S.N. program is available to registered nurses who have been admitted to the R.N./B.S.N. program and wish to follow an accelerated Plan of Study for the M.S.N. in Adult Acute Care Clinical Nurse Specialist, Family Nurse Practitioner or Nursing Education.

R.N./B.S.N. students who have completed the following courses with a minimum overall grade point average of 3.0 or better are eligible to transfer to the R.N./M.S.N. program:

CHM104	Introduction to Chemical Principles
CHM 201	Organic and Biological Chemistry
BIO 121	Clinical Anatomy and Physiology
BIO 307	Introduction to Human Microbiology
RHT 150	Composition I
RHT 160	Composition II
NRS 310	Conceptual Foundations of Practice
NRS 340	Health Promotion in the Community

At the completion of the required 125 credits for the B.S.N., students can apply for admission to the Master's program. Applicants to the M.S.N. program must:

1. Comply with graduate school admission requirements.
2. Have a cumulative GPA of 3.0 or better.
3. Be eligible for a current registered nurse license in the state of Michigan.
4. Submit a 500-1,000 word written goal statement.
5. Submit two recommendations from persons familiar with the applicant in a professional capacity. If possible, one recommendation should come from a current supervisor.
6. Have a satisfactory score on the Graduate Record Examination (waived for applicants with undergraduate GPA of 3.5 or higher).
7. Have one year prior clinical experience.
8. Have an interview with faculty.

## Core performance standards

All nursing students must demonstrate the following competencies during the entire academic program:

Competency	Standard
Critical Thinking:	Inductive/deductive reasoning sufficient for clinical judgment and decision making.

Interpersonal:	Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, spiritual and intellectual backgrounds.
Emotional Stability:	Emotional stability sufficient to assume responsibility/accountability for actions.
Communication:	Communication abilities sufficient for interaction with others in verbal and written form.
Motor Skills:	Gross and fine motor abilities sufficient to provide safe and effective nursing care.
Mobility:	Physical abilities sufficient to move from place to place and maneuver in small places.
Visual:	Visual ability sufficient to provide safe and effective nursing care.
Hearing:	Auditory ability sufficient to provide safe and effective nursing care.
Tactile:	Tactile ability sufficient for assessment and implementation of care.
Health:	Characteristics that would not compromise health and safety of clients.

## Policies and Procedures for Progression, Retention and Dismissal in the School of Nursing

Once admitted to the School of Nursing, students are required to earn a grade of 2.5 or better in each nursing course and a grade of 2.5 or better in PSY 225: Introduction to Life-Span Developmental Psychology and BIO 307: Introduction to Human Microbiology. In courses graded satisfactory/unsatisfactory (S/U), students are expected to earn a course grade of satisfactory. No nursing course may be repeated more than once. Students who do not meet these standards will have their academic progress reviewed by the Associate Dean or designee.

Students who are not making satisfactory progress toward completion of the nursing degree will be placed on probation with conditions imposed for retention in the program or they will be dismissed from the program. See School of Nursing Undergraduate Student Handbook for further information regarding probation and dismissal.

**Appeal Process:** A student may appeal the dismissal from the program if s/he believes there are valid reasons to do so (see School of Nursing Undergraduate Student Handbook).

**Readmission Policy:** Readmission to the School of Nursing will be considered on a case-by-case basis. If readmitted, conditions of readmission may be imposed. Students may not re-enter the nursing program for at least one full 14-week semester (fall or winter) following dismissal. Request for readmission forms are available from student's academic adviser and must be submitted six weeks before the beginning of the term for which the student seeks readmission.

## Additional Information

### Accreditation and program review

The Oakland University School of Nursing is accredited by the Commission on Collegiate Nursing Education (CCNE) and is approved by the Michigan State Board of Nursing.

### Sigma Theta Tau-Theta Psi Chapter

The local chapter of Sigma Theta Tau International Honor Society in Nursing was chartered in April 1986 at Oakland University. Candidates for membership are selected on the basis of superior scholastic achievement and evidence of professional leadership potential.



## Student Nurses Association of Oakland University (SNAOU)

Pre-nursing and nursing students are eligible for and encouraged to become members of the Student Nurses Association of Oakland University. The organization gives OU nursing students an opportunity to receive information, have support from other nursing students and increase networking skills. It also gives members the ability to work with others, participate in community and political events, and have an opportunity to communicate with OU School of nursing administrators.

## Qualification for R.N. licensure

Licensure is granted by the state of Michigan. Requirements for licensure include successful completion of a state-approved educational program and satisfactory performance on the licensing examination prescribed by the state of Michigan. Upon registration of the license, a nurse is known as a registered nurse (R.N.). Licensure in one state entitles a qualified holder to seek licensure by endorsement in other states.

As part of the pre-licensure screening policy, the Michigan Board of Nursing will obtain criminal conviction history. Additionally, new licensure applicants with previous substance abuse convictions will not be prohibited from licensure; however, the circumstances of the conviction will be reviewed and may result in investigation and/or referral to the Health Professional Recovery Program (Legal and Professional Regulation of Nursing Practice in Michigan, 1995).

## Continuing education

Continuing professional education is offered by the School of Nursing in order to meet the life-long learning needs of professional nurses. Specialized contract programs can be provided in order to meet the unique professional staff development needs of employers in the health care setting, business and industry, government and other settings. These programs are individually tailored to meet the specific workplace needs of professionals and employers. Programs and courses are offered for university credit or noncredit. When noncredit programs and courses are offered, they carry the Continuing Education Unit (CEU).

## Course Offerings

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

### **NRS 206      Introduction to Professional Nursing (2)**

Introduction to the profession of nursing and to the basic therapeutic intervention and skills of professional nursing practice. Emphasis is placed on communication skills and health education. Prerequisite: Admission to the School of Nursing.

### **NRS 207      Nursing Therapeutics I (1)**

Application in the laboratory setting of basic theoretical principles and therapeutic skills used in professional nursing practice such as: infection precautions, vital sign assessment, hygiene, body mechanics and specimen collection.

Prerequisite: Admission to the School of Nursing.

### **NRS 208      Health Assessment (3)**

Introduces students to the process of health assessment. Emphasis on performing a full screening assessment of well clients across the life span. Deviations from normal findings are stressed.

Prerequisite: Admission to the School of Nursing.

Prerequisite or corequisite: PSY 225, NRS 206.

Corequisite: NRS 209.

**NRS 209 Health Assessment Laboratory (1)**

Application in the laboratory setting of principles, concepts and client care skills presented in NRS 208.

Prerequisite: Admission to the School of Nursing.

Corequisite: NRS 208.

**NRS 210 Nursing Therapeutics II (2)**

Introduces student to basic and advanced therapeutic skills related to the care of acute and chronically ill clients.

Prerequisite: NRS 206, 207, 208, 209.

Corequisite: NRS 227, 302, 303.

**NRS 213 Basic Clinical Competencies I (1)**

Application of principles, concepts and client care skills in the clinical setting.

Prerequisite or corequisite: NRS 206, 207, 208, 209, 216

**NRS 216 Wellness and Health Promotion (3)**

Introduces concepts and principles of health promotion and wellness. Specific areas of discussion will include health promotion, protection, and preventative strategies.

Prerequisite or corequisite: PSY 225, NRS 206, 208, 252.

**NRS 220 Nutrition in Nursing Practice (2)**

Presents knowledge and skills necessary to determine nutritional needs, status, and habits throughout the life span and health-illness continuum.

Prerequisite: Admission to the School of Nursing or permission of instructor.

**NRS 227 Pathophysiology (3)**

Presents biological and physiological functional deviations that can occur throughout the life span.

Prerequisite: Admission to the School of Nursing or permission of instructor.

Prerequisite or corequisite: BIO 307.

**NRS 252 Scientific Inquiry I (2)**

Introduction to the scientific basis of professional nursing practice. Focuses on the theory and application of information related to critical thinking, nursing process, clinical judgement, and research.

Prerequisite or corequisite: NRS 206.

**NRS 260 Topics in Nursing (1-12)**

Presents special topics or areas of nursing that students may wish to develop. Clinical experiences in a health care facility may be required.

**NRS 280 Nursing Practice Concepts (4)**

This course focuses on the nature of nursing and serves as an introduction to professional nursing. Basic therapeutic intervention and skills of professional practice will be introduced. Principles of health promotion, disease prevention, preventative strategies, and principles of health teaching will be discussed with emphasis on communication skills and health education.

Corequisite: NRS 281, 282, 283, 284, 285, 380 and 381.

**NRS 281 Nursing Practice Concepts Clinical (1)**

Application in clinical laboratory setting of principles, concepts and client care skills presented in didactic content. Application of basic and advanced therapeutic skills in clinical setting related to didactic content.

Corequisite: NRS 280, 282, 283, 284, 285, 380 and 381.

**NRS 282 Health Assessment Across the Life Span (3)**

This course focuses on concepts, skills and attitudes fundamental to professional nursing practice within a framework of clinical decision-making. Importance of therapeutic communication and the assessment of cultural, socioeconomic and diversity aspects of healthcare will be emphasized.

Corequisite: NRS 280, 281, 283, 284, 285, 380 and 381.

**NRS 283 Health Assessment Across the Life Span Lab (1)**

This course focuses on the practice of concepts, skills and attitudes fundamental to professional nursing within a framework of clinical decision-making. Importance of therapeutic communication and the assessment of cultural, socioeconomic and diversity aspects of healthcare will be emphasized. Corequisite: NRS 280, 281, 282, 284, 285, 380 and 381.

**NRS 284 Principles of Nursing Practice (2)**

This course focuses on concepts, skills and attitudes fundamental to professional nursing practice as well as theory and application of information. Emphasis is on critical thinking, clinical judgment, therapeutic interventions, health promotion, protection, and preventive strategies. Corequisite: NRS 280, 281, 282, 283, 285, 380 and 381.

**NRS 285 Principles of Nursing Practice Clinical (1)**

Clinical experience focuses on the development of professional nursing practice with emphasis on critical thinking, clinical judgment, therapeutic interventions, health promotion, protection, and preventative strategies with application to the comprehensive health assessment and care of clients within an acute setting. Corequisite: NRS 280, 281, 282, 283, 284, 380 and 381.

**NRS 302 Nursing: Vulnerable Populations (3)**

Focuses on the provision of nursing care to vulnerable populations. Examines race, ethnicity, religion, gender, socioeconomic environmental circumstances, and developmental status. *Satisfies the university general education requirement in U.S. diversity.*

Prerequisite: NRS 216, 252.

Corequisite: NRS 227, 303.

**NRS 303 Basic Clinical Competencies II (2)**

Application in the clinical setting of principles, concepts, and client care skills presented in NRS 302. Prerequisite: NRS 213, 220, 252.

Prerequisite or corequisite: NRS 227

Corequisite: NRS 302.

**NRS 304 Human Sexuality (4)**

Students will apply knowledge from previous general education courses, specifically from the Foundations, Exploration and/or Diversity areas, to the topic of human sexuality. Overall, this course will apply knowledge from the natural and social sciences to address issues, concerns, varying perspectives, and phenomena associated with human sexuality. *Satisfies the university general education requirement in the knowledge application integration area and in U.S. diversity.*

Prerequisite: Completion of the general education requirement in the natural science and technology knowledge exploration area.

**NRS 308 Pharmacology in Nursing (3)**

Presents pharmacological rationale and interventions in health and illness. Includes implications for specific drugs.

Prerequisite: NRS 227.

**NRS 310 Conceptual Foundations of Practice (4)**

Examination of conceptual foundations of baccalaureate nursing practice including the roles of the professional nurse. Focuses on critical thinking skills necessary to analyze scholarly literature including nursing research.

Prerequisite: Admission to R.N./B.S.N. degree completion sequence.

**NRS 326 Acute Health Needs I (5)**

Integrates theory, rationale, and specific nursing interventions for acutely ill clients of all ages and their families. Emphasizes application of the nursing process.

Prerequisite: Completion of School of Nursing program plan for sophomore year.

Prerequisite or corequisite: NRS 308.

Corequisite: NRS 336 or 337 or 338.

**NRS 328 Acute Health Needs II (4)**

Continues content and emphasis begun in NRS 326.

Prerequisite: NRS 326.

Prerequisite or corequisite: NRS 336 or 337, or 338.

**NRS 336 Acute Care Clinical: Adult (2)**

Application of theory, research and client care skills presented in NRS 326/328 in the clinical setting with a focus on adults.

Prerequisite or corequisite: NRS 308.

Corequisite: NRS 326 or 328.

**NRS 337 Acute Care Clinical: Child (2)**

Application of theory, research and client care skills presented in NRS 326/328 in the clinical setting with a focus on children.

Prerequisite or corequisite: NRS 308.

Corequisite: NRS 326 or 328.

**NRS 338 Acute Care Clinical: Family (2)**

Application of theory, research and client care skills presented in NRS 326/328 in the clinical setting with a focus on emerging families.

Prerequisite or corequisite: NRS 308.

Corequisite: NRS 326 or 328.

**NRS 340 Health Promotion in the Community (4)**

Focuses on the development of nursing strategies for health promotion with diverse client populations over the life span.

Prerequisite or corequisite: NRS 310.

**NRS 354 Nursing Care Management (2)**

Presents principles and knowledge necessary to coordinate and manage health care. Explores the ethical, legal and financial issues impacting health care delivery.

Prerequisite or corequisite: NRS 326, 452.

Prerequisite: NRS 326.

**NRS 355 Nursing Leadership and Health Care Issues (2-4)**

Examine the influence of customer demands, characteristics of the healthcare workplace, reimbursement systems and outcome measures on the cost, availability and quality of healthcare services.

Prerequisite or corequisite: NRS 310.

**NRS 360 Topics in Nursing (1-12)**

Presents special topics or areas of nursing that students may wish to develop. Clinical experience in health care facility may be required.

**NRS 380 Comprehensive Adult Nursing I (3)**

This course focuses on competencies for nursing care assessment and management of adult clients through integration of theory, rationale and specific nursing interventions for adult clients and their families. Didactic medical-surgical content emphasizes basic concepts foundational to biophysical and psychosocial adult health practice.

Corequisite: NRS 280, 281, 282, 283, 284, 285 and 381.

**NRS 381 Comprehensive Adult Nursing I Clinical (2)**

Acute care hospital settings will be utilized for clinical practice experiences. Medical-surgical content emphasizing basic concepts foundational to biophysical and psychosocial adult health practice will be applied to the care of adult patients and their families.

Corequisite: NRS 280, 281, 282, 283, 284, 285 and 380.

**NRS 382 Nursing Care of the Childbearing Family (3)**

This course focuses on nursing competencies in assessment and management of childbearing families through integration of theory, rationale and specific nursing interventions. Didactic content emphasizes sociocultural, economic, political, and ethical factors that impact on health promotion, disease prevention and risk reduction for childbearing families.

Prerequisite: NRS 280, 281, 282, 283, 284, 285, 380 and 381.

Corequisite: NRS 383, 384, 385, 386, 387, 480 and 481.

**NRS 383          Nursing Care of the Childbearing Family Clinical (2)**

Hospital settings will be utilized for clinical practice experiences with emphasis on sociocultural, economic, political, and ethical factors that impact on health promotion, disease prevention and risk reduction for the childbearing and female clients.

Prerequisite: NRS 280, 281, 282, 283, 284, 285, 380 and 381.

Corequisite: NRS 382, 384, 385, 386, 387, 480 and 481.

**NRS 384          Nursing of Children (3)**

The course focuses on nursing competencies for assessment and management of children and their families through integration of theory, rationale and specific nursing interventions. Didactic content emphasizes health assessment, health promotion, and disease prevention for pediatric clients.

Prerequisite: NRS 280, 281, 282, 283, 284, 285, 380 and 381.

Corequisite: NRS 382, 383, 385, 386, 387, 480 and 481.

**NRS 385          Nursing of Children Clinical (2)**

Hospital settings will be utilized for clinical practice experiences with emphasis on health assessment, health promotion, and disease prevention for pediatric clients.

Prerequisite: NRS 280, 281, 282, 283, 284, 285, 380 and 381.

Corequisite: NRS 382, 383, 384, 386, 387, 480 and 481.

**NRS 386          Mental Health Nursing (2)**

The course focuses on developing competencies for practice in mental health nursing. Cross-cultural aspects of mental health and appropriate cultural interventions are emphasized.

Prerequisite: NRS 280, 281, 282, 283, 284, 285, 380 and 381.

Corequisite: NRS 382, 383, 384, 385, 387, 480 and 481.

**NRS 387          Mental Health Nursing Clinical (1)**

Selected inpatient and/or outpatient facilities will be utilized for clinical practice experiences related to mental health nursing.

Prerequisite: NRS 280, 281, 282, 283, 284, 285, 380 and 381.

Corequisite: NRS 382, 383, 384, 385, 386, 480 and 481.

**NRS 426          Nursing: Home and Community/RN (2-4)**

Focuses on principles, knowledge, skills and attitudes necessary to deliver health care in the community, including the home setting.

Prerequisite or corequisite: NRS 310.

**NRS 428          Community Nursing (3)**

Examination of the role of the nurse in the community. Focuses on community resources as well as the legal, ethical and legislative issues related to community nursing.

Prerequisite: NRS 328, 452.

**NRS 450          Nursing: Vulnerable Populations for the RN (2-4)**

Focuses on the provision of nursing care to vulnerable populations. Examines race, ethnicity, religion, gender, socioeconomic environmental circumstances, and developmental status. *Satisfies the university general education requirement in U.S. diversity.*

Prerequisite or corequisite: NRS 310.

**NRS 452          Scientific Inquiry II (2-4)**

Emphasizes the salient points of the research process and evidenced based practice.

Basic B.S.N.

Prerequisite: NRS 252, R.N./B.S.N. Completion Sequence.

Prerequisite or corequisite: NRS 310.

**NRS 460          Topics in Nursing (2-6)**

Provides comprehensive theoretical nursing content related to a specialty area, e.g., critical care, maternity, etc. Clinical experience in a health care facility may be required.

Prerequisite: Completion of School of Nursing program plan for junior year.

**NRS 470      Chronic Health Conditions (3)**

Presents theory, rationale, and specific nursing interventions for chronically ill clients of all ages and their families. Emphasizes application of the nursing process.

Prerequisite: Completion of School of Nursing program plan for junior year.

Corequisite: NRS 471, NRS 477.

**NRS 471      Chronic Care Clinical (2)**

Application in the clinical setting of principles, concepts, and client care skills presented in NRS 470.

Prerequisite: NRS 354, 452.

Corequisite: NRS 470.

**NRS 472      Nursing Synthesis (1)**

Analyze and debate theoretical and practice issues impacting health care delivery.

Prerequisite: NRS 354, 428, 452, 470, 471, 477.

Corequisite: NRS 473.

**NRS 473      Nursing Synthesis Clinical (5)**

Application in the clinical setting of theory, research and client care skills presented in NRS 472.

Prerequisite: NRS 428, 470, 471, 477.

Corequisite: NRS 472.

**NRS 474      Nursing Synthesis for the RN (4)**

Analyze and debate theoretical and practice issues impacting health care delivery.

Prerequisite: NRS 310

Prerequisite or corequisite: NRS 340, 355, 426, 450, 452.

**NRS 475      Nursing Synthesis for the RN Clinical (1-5)**

Application of theory, research and client care skills presented in NRS 474.

Prerequisite: NRS 310.

Prerequisite or corequisite: NRS 340, 355, 426, 450, 452, 474.

**NRS 477      Chronic Care Clinical: Psychiatric (2)**

Application in a psychiatric clinical setting of principles, concepts, and client care skills learned in NRS 470.

Prerequisite: NRS 354, 452.

Corequisite: NRS 470.

**NRS 480      Comprehensive Adult Nursing II (3)**

This course is a continuation of NRS 380 and focuses on competencies for nursing care of adult clients and their families through integration of theory, rationale and nursing interventions. Home care and health policy for adult clients related to acute and chronic illnesses and diseases will be explored.

Prerequisite: NRS 280, 281, 282, 283, 284, 285, 380 and 381.

Corequisite: NRS 382, 383, 384, 385, 386, 387 and 481.

**NRS 481      Comprehensive Adult Nursing II Clinical (2)**

Clinical experiences will be selected to reflect general medical-surgical clients and clinical practices emphasizing basic concepts foundational to biophysical and psychosocial adult health practice.

Prerequisite: NRS 280, 281, 282, 283, 284, 285, 380 and 381.

Corequisite: NRS 382, 383, 384, 385, 386, 387 and 480.

**NRS 482      Research Basis of Nursing (3)**

This course focuses on nursing research, both qualitative and quantitative which fosters a spirit of inquiry. Evidence-based practice within the nursing research framework will be explored. The student will explore topics related to individual clients, families and communities that advance the practice of nursing today.

Prerequisite: NRS 382, 383, 384, 385, 386, 387, 480 and 481.

Corequisite: NRS 483, 484 and 485.

**NRS 483            Nursing Home and Community (3)**

This course focuses on the professional nurse's role in the community. The student will examine principles of health promotion, community resources, legal, ethical and legislative issues related to community and public health nursing. Research findings will be included in both didactic and clinical experiences.

Prerequisite: NRS 382, 383, 384, 385, 386, 387, 480 and 481.

Corequisite: NRS 482, 484 and 485.

**NRS 484            Transition into Nursing Practice (3)**

This course focuses on the role of the professional nurse. Leadership and management in nursing and healthcare will be explored utilizing current theories and practices. Current theoretical and practice issues impacting health care today will be analyzed and discussed. Concepts learned in didactic content will be applied in clinical practice settings.

Prerequisite: NRS 382, 383, 384, 385, 386, 387, 480 and 481.

Corequisite: NRS 482, 483 and 485.

**NRS 485            Transition into Nursing Practice Clinical (6)**

Precepted clinical experiences applies knowledge gained from previous courses to provide nursing care to patients.

Prerequisite: NRS 382, 383, 384, 385, 386, 387, 480 and 481.

Corequisite: NRS 482, 483 and 484.

**NRS 490            Independent Study (1-12)**

Engages students in individual research, directed readings or group study under the supervision of a faculty member.

**The following courses are graduate level courses open to undergraduate students who have been admitted to the R.N./M.S.N. program.**

**NRS 515            Vulnerable Populations and Social Issues (2-4)**

This course will focus on the concept of vulnerability and the role of nursing in meeting the health care needs of vulnerable populations. Developmental, social, cultural, racial, socioeconomic, political and health care issues that predispose people to vulnerability, outcomes of vulnerability, and the cycle of vulnerability will be emphasized.

Prerequisite: NRS 310 and admission to R.N./M.S.N. program.

**NRS 516            Health Policy, Finance and Nursing Management (2-4)**

Outcomes, reimbursement, consumer expectations and quality standards and their impact on advanced nursing practice in managing and delegating patient care will be explored. Health care policy and finance is explored in relation to government, reimbursement, quality, systems, consumers and professional and advanced nursing practice levels.

Prerequisite: NRS 310 and admission to R.N./M.S.N. program.

# UNIVERSITY FACULTY

This list reflects faculty appointments effective August 15, 2005, as they were available on the publication date.

## Officers of Instruction

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**VIRINDER K. MOUDGIL**, Vice President for Academic Affairs and Provost and Professor of Biological Sciences, Ph.D., Banaras Hindu University (India)

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 Joanne M. Talarek, R.N., M.S.N., C.S., Adult Nurse  
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The Senate carries out much of its work through its committees, all staffed mainly by faculty members but generally including student and administrative representatives as well. Currently, there are 18 such committees whose responsibilities reflect the range of the Senate's concerns.

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- Academic Conduct Committee
- Academic Standing and Honors  
Committee
- Admissions and Financial Aid  
Committee
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- Athletics Committee
- Budget Review Committee
- Campus Development and Environment  
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- General Education Committee
- Graduate Council
- Human Relations Committee
- Honorary Degrees Committee
- Library Committee
- Planning Review Committee
- Research Committee
- Teaching and Learning Committee
- University Committee on  
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## PLANNING PAGE

<b>General Education Requirements</b>			
<b>Date</b>	<b>Field Category</b>	<b>Course Taken</b>	<b>Credits</b>
	Arts		
	Literature		
	Language		
	Western Civilization		
	International Studies		
	Social Science		
	Mathematics		
	Natural Science		

**Total credits**   
(Minimum 32)

<b>Writing Proficiency Requirements</b>	
	Rhetoric 150
	Rhetoric 160

<b>Ethnic Diversity Requirements</b>	
	<b>Course Taken</b>

College or School Requirements			
Date	Field Category	Course Taken	Credits

Total credits

Major:	
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**Major Requirements**

Date	Category	Courses Taken	Credits

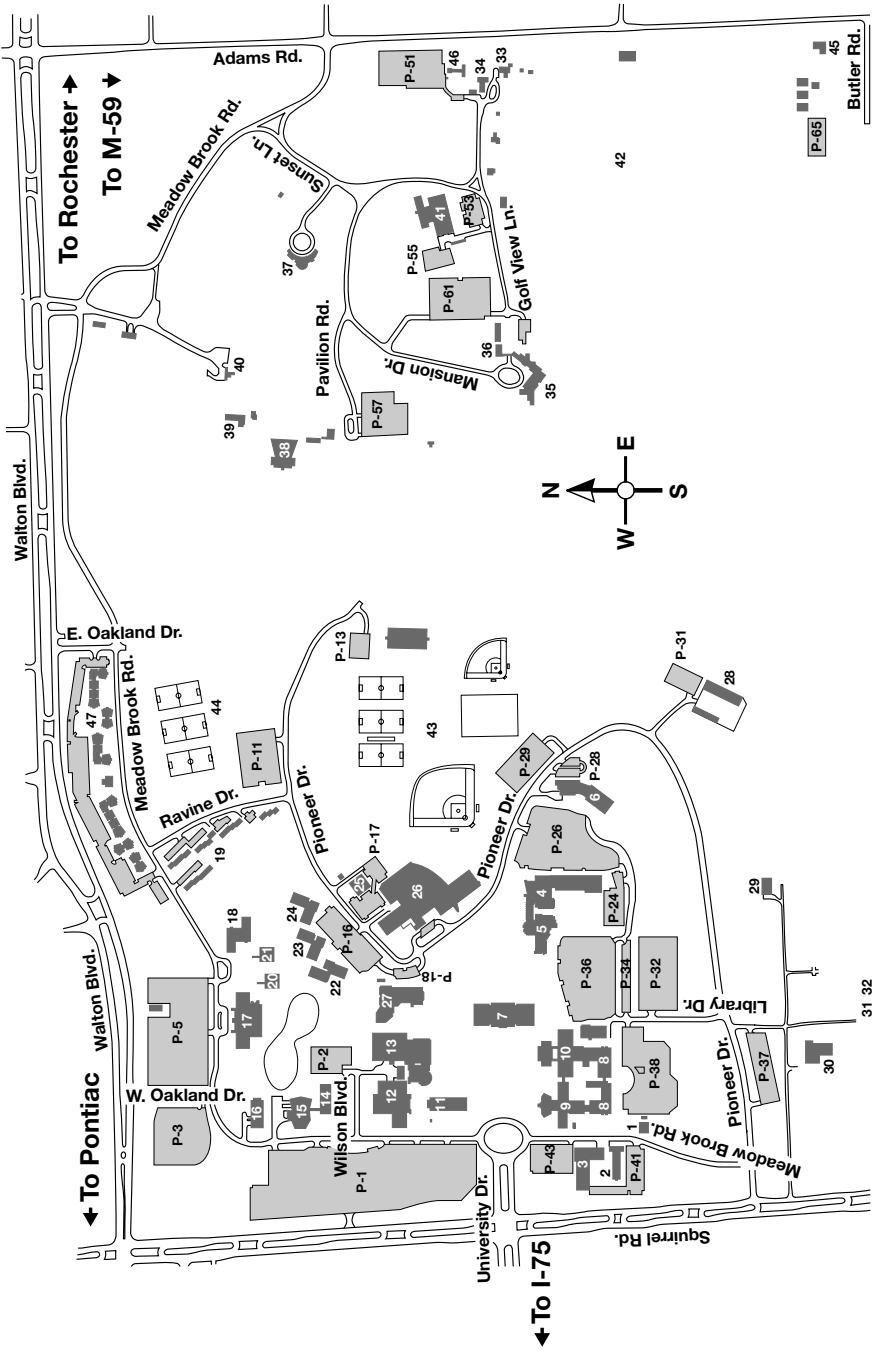
Total credits

## Current Legend

### Oakland University

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1. Facilities Management	FM	33. Golf Course Clubhouse and Pro Shop	
2. Belgian Barn		34. John Dodge House	JDH
3. Police and Support Services Building	PSS	35. Meadow Brook Hall	MBH
4. Varner Hall	VAR	36. Carriage House	
Recital Hall		37. Sunset Terrace	SST
Studio Theatre		38. Baldwin Pavilion	BP
5. Elliott Hall	EH	39. Trumbull Terrace	
6. Pawley Hall	PH	40. Meadow Brook Music Festival Ticket Office	
Lowry Early Childhood Education Center		41. Shotwell-Gustafson Pavilion	
7. Kresge Library	KL	42. Katke-Cousins and R&S Sharf Golf Courses	
8. Science and Engineering Building	SEB	43. Pioneer Field (lower)	
9. Hannah Hall of Science	HHS	44. Pioneer Field (upper)	
10. Dodge Hall of Engineering	DHE	45. Varner House	VAH
11. South Foundation Hall	SFH	46. Meadow Brook Greenhouse	
12. North Foundation Hall	NFH	47. University Student ApartmentsUSA	
13. Oakland Center	OC		
14. Wilson Hall	WH		
15. Meadow Brook Theatre and Art Gallery		* Off map	
16. Graham Health Center	GHC		
17. Vandenberg Hall	VBH		
18. Hamlin Hall	HAM		
19. George T. Matthews Apartments			
20. Hill House	HIL		
21. Van Wagoner House	VWH		
22. Fitzgerald House	FTZ		
23. Anibal House	ANI		
24. Pryale House	PRY		
25. Central Heating Plant	CHP		
26. Recreation and Athletics Center	RAC		
27. O'Dowd Hall	ODH		
28. Buildings and Grounds Maintenance			
29. Storage Facility			
30. Electrical Substation			
31. Kettering Magnetics Lab*	KML		
32. Observatory*			

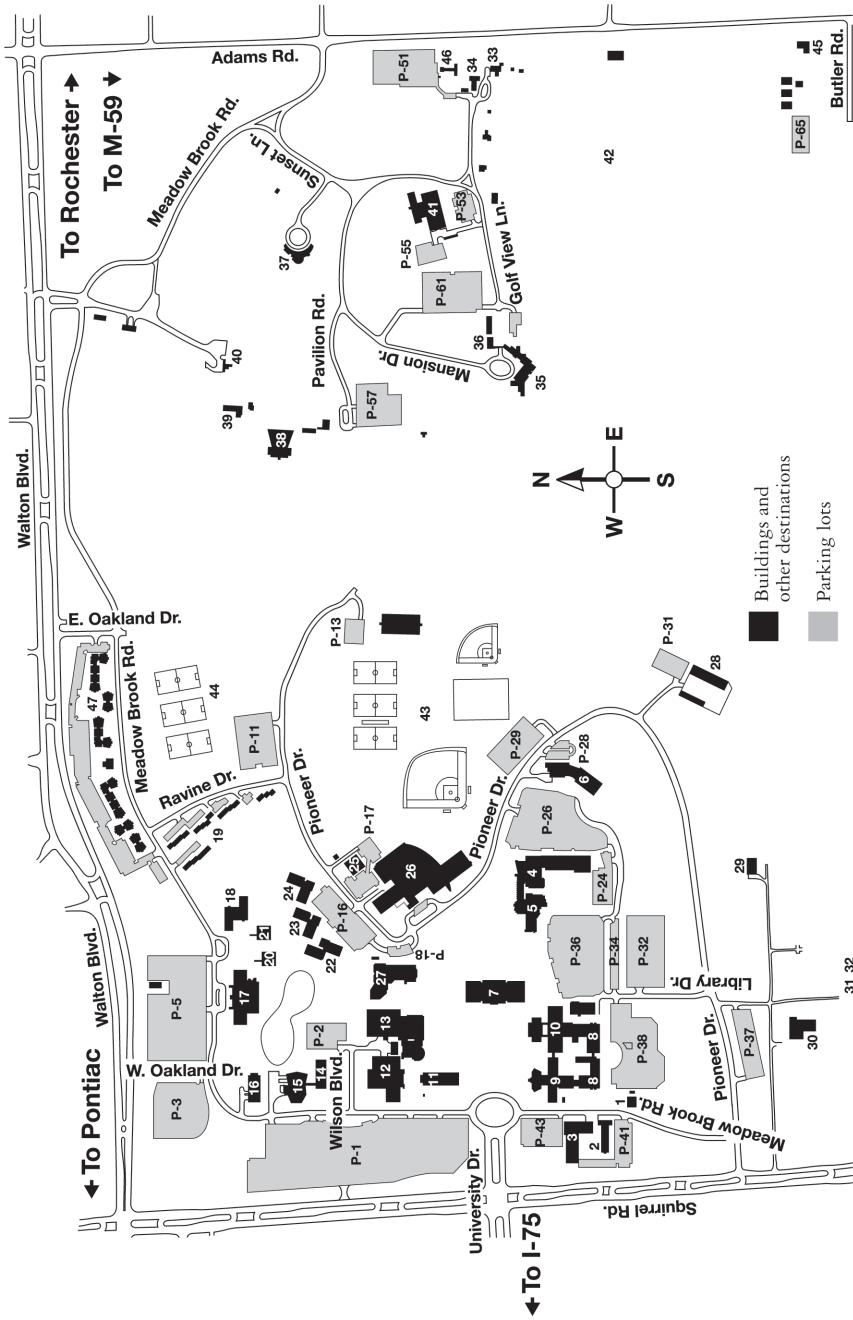


# NOTES



# NOTES

# NOTES



Buildings and other destinations  
 Parking lots

31 32

29

28

26

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Oakland University is dedicated to delivering a distinctive undergraduate experience that is complemented by the strength of its graduate offerings and research accomplishments.



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