

OAKLAND UNIVERSITY

2002-2003 UNDERGRADUATE CATALOG





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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 2002 through summer session 2009. Undergraduate students admitted to a degree-granting program may use provisions in this catalog to meet requirements within that time frame.

Available at the University Bookcenter

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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, Office of University Diversity and Compliance, 105 North Foundation Hall, Oakland University, Rochester, Michigan 48309-4401.

CONTENTS



Contents

Academic Calendar	6
Introduction	
General Information	11
Academic Policies and Procedures	50
General Education Requirements	57
Ethnic Diversity Requirement	60
University Library	75
Other Programs	77
College of Arts and Sciences	80
Department of Art and Art History	
Department of Biological Sciences	92
Department of Chemistry	106
Department of Economics	
Department of English	119
Department of History	127
Center for International Programs	
Department of Linguistics	143
Department of Mathematics and Statistics	151
Department of Modern Languages and Literatures	161
Department of Music, Theatre and Dance	177
Department of Philosophy	204
Department of Physics	210
Department of Political Science	
Department of Psychology	225
Department of Rhetoric, Communication and Journalism	
Department of Sociology and Anthropology	244
Biochemistry Program	255
Environmental Health Program	257
Women's Studies	261
Other Academic Options	264
School of Business Administration	276
School of Education and Human Services	307
Department of Counseling	309
Department of Curriculum, Instruction and Leadership	310
Secondary Education	316
Department of Human Development and Child Studies	320
Department of Human Resource Development	322
Department of Reading and Language Arts	329
School of Engineering and Computer Science	
Department of Computer Science and Engineering	345
Department of Electrical and Systems Engineering	
Department of Mechanical Engineering	
Engineering Sciences Programs	366





g. 1-5 3 4/18/02, 2:30 PM



Contents continued

General Studies	382
School of Health Sciences	385
Exercise Science Program	387
Health Behavioral Sciences Program	390
Health Sciences Program	
Industrial Health and Safety Program	394
Medical Laboratory Sciences Program	
Physical Therapy Program	407
Wellness, Health Promotion, and Injury Prevention	408
Honors College	413
School of Nursing	415
University Faculty	428
Offices of the University	
Course Reference	
Index	
Planning Page	466
Campus Map	

Academic Advising Index

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

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 Chemistry Communication

East Asian Studies (China or Japan)

Economics

Engineering Chemistry Engineering Physics English Environmental Health French Language and Literature German and German Studies German Language and Literature History Journalism Latin American Language/Civilization Latin American Studies Linguistics Mathematics Medical Physics Music Performing Arts Philosophy Physics Political Science Psychology Public Administration and Policy Russian Language/Civilization Slavic Studies Sociology South Asian Studies

Spanish Language and Literature

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

Women's Studies









Academic Advising Index continued

School of Business Administration

332 Elliot Hall (248) 370-3285

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

School of Education and Human Services

363 Education Building (248) 370-4182 (Education) 430 A/C Education Building (248) 370-3066 (HRD)

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

School of Engineering and Computer Science 159A Dodge Hall (248) 370-2201

Computer Engineering
Computer Science
Electrical Engineering
Engineering Chemistry
Engineering Physics
Mechanical Engineering
Systems Engineering
Undecided—Engineering/Computer
Science

School of Health Sciences

363 Hannah Hall (248) 370-4195

Exercise Science Health Sciences Industrial Health and Safety Medical Laboratory Sciences

- Cytotechnology
- Clinical Laboratory Sciences
- Histotechnology
- Nuclear Medicine Technology
- Radiation Therapy Physical Therapy Undecided—Health Sciences

School of Nursing 447 O'Dowd Hall

447 O'Dowd Hall (248) 370-4068

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

For More Information

Area code: (248)

Admissions: 370-4556 (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: 370-4556 (new students)/370-2550 (returning students)/

370-3167 (graduate students)

Student affairs: 370-4200

Student housing: 370-3570 (Residence Halls Office)







Oakland University 2002-2003 Academic Calendar

Fall 2002

Registration	Wednesday, Thursday	August 28, 29
Labor Day holiday	Monday	September 2
New Student Convocation	Tuesday	September 3
Classes begin	5:00 p.m., Tuesday	September 3
Thanksgiving Recess begins	10:00 p.m., Wednesday	November 27
Classes resume	7:30 a.m., Monday	December 2
Classes end	5:00 p.m., Tuesday	December 10
Study period	5:00 p.m10:00 p.m., Tuesday	December 10
Exams begin	7:30 a.m., Wednesday	December 11
Exams end	10:00 p.m., Tuesday	December 17
Fall Commencement	Saturday	December 21

Winter 2003

Registration	Friday	January 3
Classes begin	7:30 a.m., Monday	January 6
Martin Luther King, Jr. Day	Monday (Classes suspended)	January 20
Winter Recess begins	10:00 p.m., Saturday	February 22
Classes resume	7:30 a.m., Monday	March 3
Classes end	10:00 p.m., Saturday	April 19
Study period	Sunday	April 20
Exams begin	7:30 a.m., Monday	April 21
Exams end	10:00 p.m., Saturday	April 26

Spring 2003

Registration	Tuesday	April 29
Classes begin	7:30 a.m., Wednesday	April 30
Spring Commencement	Saturday	May 3
Memorial Day holiday	Monday	May 26
Classes end	10:00 p.m., Wednesday	June 18
Final exams	Thursday - Saturday	June 19-21

Summer 2003

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Registration	Monday	June 23
Classes begin	7:30 a.m., Tuesday	June 24
Independence Day holiday	Friday	July 4
Classes resume	7:30 a.m., Monday	July 7
Classes end	10:00 p.m., Wednesday	August 13
Final exams	Thursday - Saturday	August 14-16





pg. 6-49 6 4/18/02, 2:31 PM

INTRODUCTION

Oakland University is a comprehensive, state-supported institution of more than 15,875 students that offers 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 over \$10 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 library and computing facilities. The central university library is Kresge Library, which also houses specialized collections and services in performing arts and education. Computing facilities include a comprehensive distributed environment involving 50 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, a professional 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. Meadow Brook Art Gallery houses the university's permanent collection of African art and presents a variety of special exhibits annually.

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

From its beginnings, the university has emphasized academic quality, concentrating on providing a dynamic, student-focused learning environment with integration of liberal and professional studies by a faculty of dedicated scholar-teachers. Located in suburban





pg. 6-49 7 4/18/02, 2:31 PM

Oakland County, Michigan, Oakland University is easily accessible to millions of Detroit metropolitan area residents. The natural beauty of the campus, much of it still wooded and undeveloped, is enhanced by comprehensive recreational facilities and modern buildings that house the university's many academic and public service programs as well as nearly 1,400 residential students. Beginning fall 2002, a new student apartment complex will be home to an additional 454 students. 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 threefold 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.





pg. 6-49 8 4/18/02, 2:31 PM

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, onand 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





pg. 6-49 9 4/18/02, 2:31 PM

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).





pg. 6-49 10 4/18/02, 2:31 PM



GENERAL INFORMATION

Admission

Admission to freshman standing (Apply online @ 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 and their ACT scores. 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 cumulative grade point average in academic courses and at least four years of college preparatory mathematics courses.

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

Entering freshmen planning to major in engineering or computer science also should have taken at least four years of high school mathematics courses (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 cumulative 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 cumulative grade point average of at least 2.80.

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

Applications for undergraduate admission are available from high school counselors or from the Office of Admissions (101 North Foundation Hall, 248-370-3360). Students can also apply for admission through the Oakland University Web site (www.oakland.edu). Applications should be submitted as early in the senior year as possible.





pg. 6-49 11 4/18/02, 2:31 PM



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. The minimum grade point average for high school students wishing to attend Oakland University is 3.00. 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 at accredited Michigan colleges and universities may apply for guest admission by filing the Michigan Uniform Undergraduate Guest Application form, which is available from the registrar's office at their home institution. This form should be submitted to the Office of Admissions well before the beginning of each semester or session students plan to attend as guests. Students attending Michigan colleges or universities are not required to submit transcripts.

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





pg. 6-49 12 4/18/02, 2:31 PM



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).





pg. 6-49 13 4/18/02, 2:31 PM



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 Department of Computer Science also maintains a variety of computer equipment for student use in Dodge Hall.





pg. 6-49 14 4/18/02, 2:31 PM



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.

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 2001-02 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 returned by the bank will place students in a non-payment status. Tuition and fees for upper-division undergraduate students also apply for post-baccalaureate and undergraduate college guest students.

Tuition

Michigan residents who register as lower-division undergraduates (fewer than 56 total credits) are assessed \$132.25 per credit. Upper-division undergraduates (more than 55 total credits) are assessed \$145.50 per credit. Graduate students are assessed \$246.00 per credit. All students who are classified as nonresidents are assessed tuition at out-of-state rates: \$364.00 per credit for lower-division undergraduate students, \$392.00 per credit for upper-division undergraduate students and \$508.00 per credit for graduate students. All rates are subject to change.

General service fee

All students who register are assessed a \$140.00 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.





pg. 6-49 15 4/18/02, 2:31 PM



Student activities fee

Students who register for on-campus credits are charged an activities fee of \$21.00.

Course fees

Course fees are charged for the following specialized courses: EED 455 and SED 455\$35/course Applied Music Group instruction\$25/course GEO 106, 107; IST 396, 516, 594, 699; JRN 190, 200, 300, 310, 311, 312; LIN 315, PS 304, PSY 362, RDG 775, SOC 204, 403\$50/course Physical Therapy Courses\$42.50/credit hour And all courses in the following: School of Business Administration School of Engineering and Computer Science School of Health Sciences School of Nursing Department of Biological Sciences Department of Chemistry Department of Mathematical Sciences Department of Physics\$12.50/ 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

Late payment of outstanding balances due for tuition, fees and/or housing will result in assessment of a late payment fee of 1.5% of the outstanding balance due at the end of each month. Balances due paid by checks that are returned by the bank are considered non-payment and also will result in assessment of a \$25.00 fee.

Application fee

pg. 6-49

A \$25.00 fee must accompany all applications for admission to undergraduate degree programs for a particular term. The fee is \$30.00 for applications to graduate programs. If an applicant decides to reapply for a later term, a new application and fee must be submitted.

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.









Readmission fee

Students applying for readmission to the university must complete readmission forms and pay the \$25.00 readmission fee. The readmission fee for graduate students is \$30.00. 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 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 \$80.00 orientation and advising fee for freshmen (\$55.00 for transfer students) is charged to cover the expense of orientation and the ongoing advising process. These fees are non-refundable.

Residential service fees

The residence halls 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 2002-2003 rate for double room is \$5,227, which includes a \$16.00 hall government fee, and is for fall and winter combined. Single room fees, if available, are an additional \$880.00. Residence Halls offers four meal options:

14 Meals Plus 200: 14 meals per week in the cafeteria and \$200.00 to buy meals at any campus ARAMARK food operation.

10-meal plus plan: 10 meals per week in the cafeteria and \$500.00 to buy meals at any campus ARAMARK food operation.

5-meal plus plan: 5 meals per week in the cafeteria and \$700.00 to buy meals at any campus ARAMARK food operation.

Family Housing in George T. Matthews Family Apartments costs \$617.00 per month. Meal plans are not included in this rate.

A \$100.00 non-refundable down payment is due with the housing contract. This down payment will be credited against the first housing payment.

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





pg. 6-49 17 4/18/02, 2:31 PM



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).

Requirements of the Taxpayer's Relief Act of 1997

The Taxpayer's Relief Act of 1997 was passed by the Congress and signed into federal law by the president in 1997 to offer American taxpayers some tax relief if they made payments during the tax year to a qualified university. Part of this law is a requirement that the university receiving such payments report annually to the taxpayer and the Department of the Treasury the taxpayer's identification number (TIN), also known as the social security number (SSN), the taxpayer's name and amounts paid to the university during the previous tax year. This information is to be reported regardless of the taxpayer's intention to actually take a credit or deduction under this law. Only students not taking for-credit courses or foreign visitors without taxpayer identification numbers are exempt from this requirement. The university must therefore receive your TIN, or SSN before it can conduct billing and receipting transactions with you. You can find more information about this law on the web at http://www.nacubo.org/tra97/ or by going to the Internal Revenue Service site http://www.irs.gov/ and refer to the "Tax Regs" section. This public law is in the Internal Revenue Code, Section 6050S.

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 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





pg. 6-49 18 4/18/02, 2:31 PM



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.





pg. 6-49 19 4/18/02, 2:31 PM



- (a) **Residents:** The following apply 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.





pg. 6-49 20 4/18/02, 2:31 PM



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 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: 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; and
- documentation of the Michigan home (lease or home purchase document) must be included.

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 classification 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.





pg. 6-49 21 4/18/02, 2:31 PM



Financial Aid and Scholarships Introduction

The purpose of the financial aid programs at Oakland University is to help pay the educational costs of qualified students who do not have sufficient funds to attend school.

These programs are operated under the assumption that the primary responsibility for financing a college education rests with the student and the student's family. Aid offered by the university supplements, but does not replace, funds that should be provided by the student and family.

Students requesting financial aid are expected to contribute toward their education expenses through savings, any available benefits (such as Veteran's benefits) and the earnings of the student and, if married, his/her spouse.

Office hours

The Offices of Financial Aid, Student Employment, and Veteran's Affairs are located in 120 North Foundation Hall. The offices are open from 8:00 a.m. until 5:00 p.m. Monday through Friday, and every Wednesday until 6:30 p.m. when classes are in session.

Student eligibility requirements

Before receiving any Title IV financial assistance - Pell Grant, Supplemental Education Opportunity Grant (SEOG), Perkins Loan, College Work-Study (CWS), Federal Direct Student Loans or PLUS loans - a student must meet the eligibility requirements listed below, as well as those requirements specific to each program. (Requirements specific to each program are listed with the program descriptions.)

To receive aid from the federal student aid programs, you must:

- 1. demonstrate financial need (except for some loan programs);
- have a high school diploma or a General Education Development (GED) certificate, or pass the ASSET Program: Basic Skills Test (Reading, Writing, and Numerical), or take ACT and achieve a minimum score of 14 for the English test and a minimum score of 15 for the Math test;
- 3. be enrolled as a regular student in an eligible program of study working toward a degree or certificate:
- 4. be a citizen or national or permanent resident of the United States (a permanent resident must have an I-151 or I-551 card). If you are in another category, check with the Financial Aid Office to see if you are eligible;
- 5. be maintaining satisfactory academic progress in your course of study;
- 6. not be in default on any Title IV loan Perkins, NDSL, Direct, Stafford, SLS or PLUS or owe a refund on a Pell Grant or SEOG received while attending any institution;
- 7. sign a statement of educational purpose, stating that all funds received through the Title IV programs will be used solely for expenses related to attending school;
- sign a statement of registration compliance indicating that, if you are required to do so, you have registered with the Selective Service; and
- 9. have a Social Security Number.

Information for aid recipients

Financial aid recipients please read carefully the following:

 Financial Aid and scholarships are disbursed based upon the enrollment and residency status listed on your "award letter."





pg. 6-49 22 4/18/02, 2:31 PM



- 2. Financial aid is applied directly to your university account to pay for tuition, fees and residence hall charges. Any funds in excess of your total university charges will be made available to you in the form of cash or a refund check. Read each semester's Schedule of Classes under "Payment" for a detailed account of financial aid disbursement procedures.
- 3. All financial aid awards are contingent upon state and federal appropriations of funds.
- 4. If you have accepted an offer of work study, please be advised this DOES NOT GUARANTEE that you will receive a job. You should register for employment as early as you can according to the following: students who have never worked on-campus before must complete an employment registration form, a W-4 form and an I-9 Employment Eligibility Verification form (all are available from the Financial Aid Office). Applicants must also submit to the office a copy of their Social Security card and picture identification. Students who have worked on-campus before need only complete an employment registration form. One form is required for the fall/winter semesters, another for the spring/summer terms.
- 5. If you have been offered a William D. Ford Federal Direct Loan, the amount on your award letter is the gross amount of the loan. The amount you receive will be reduced by 1.5 percent.* You must attend loan counseling before your first loan can be disbursed. If you wish to apply for a loan for spring, please make your request after the spring Schedule of Classes has been published.
- 6. You must report to the Financial Aid Office the type and amount of any scholarships or other financial assistance you are receiving from non-university sources. Such scholarships or assistance may result in a revision or reduction in the amount of aid offered you.
- 7. Revisions of financial aid awards may be made in those cases where a significant change of family circumstances has occurred and can be documented (provided funds are available). Requests for revisions should be made in writing to the Financial Aid Office. (See "Unusual Circumstances" below.)
- 8. Falsification of information submitted for purposes of obtaining financial aid will result in cancellation of aid.
- 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.
- * A disclosure statement will be sent to you from the U.S. Department of Education's loan servicer that will state the gross amount of the loan processed, the amount of the origination fee and the net amount to be disbursed to you, with the dates the funds may first be disbursed. If you wish to decline any or all of the loan offered to you, you must notify the Financial Aid Office.

Student responsibilities in the financial aid programs

- In general, students must be enrolled at least half-time to receive financial aid. Half-time enrollment is a minimum of six credits per semester for undergraduate students. During the spring and summer terms, half-time enrollment is four credits for undergraduates. (The Michigan Adult Part-Time Grant is one exception to the half-time enrollment requirement; minimum enrollment is three credits. The Pell Grant Program is the other exception to the half-time requirement; if other eligibility requirements are met, minimum enrollment is one class.)
- Students must give priority in paying their university bill with their financial aid. This
 includes using earnings from College Work-Study to make payments toward university
 charges. College Work-Study earnings cannot be credited to an account for payment
 of tuition, housing, or short term loans.





pg. 6-49 23 4/18/02, 2:31 PM



3. The Financial Aid Office must be notified of changes in enrollment or residency status or a change in name.

Unusual circumstances

Major changes in a family's financial circumstances occurring after financial data has been filed (death, divorce, disability, long-term unemployment of a wage earner, etc.) should be reported in writing to the Financial Aid Office. Such changes in status will be reviewed and the student will be advised as to what additional information should be provided.

Sources of Financial Aid Federal financial aid programs

Federal Pell Grant

Financial need for this program is determined by a formula established by the Department of Education and passed into law by the United States Congress. The formula uses information provided on the Free Application for Federal Student Aid (FAFSA) to produce an Expected Family Contribution. This figure is used, along with the cost of attending the institution and a student's expected enrollment, to determine the actual amount of the grant. Students are eligible for a Pell Grant if they (1) are determined to have financial need based upon the Expected Family Contribution as compared to the cost of attendance; (2) are enrolled in a first undergraduate degree program; and (3) meet the student eligibility requirements listed previously. For the 2001-2002 academic year grants will range from a minimum of \$400.00 to a maximum of \$3,750.00.

Federal Supplemental Education Opportunity Grant (SEOG)

The SEOG program is for students who have not yet earned their first undergraduate degree and who demonstrate exceptional financial need (priority is given to Pell Grant recipients). All SEOG recipients must meet the student eligibility requirements listed previously. Supplemental grants cannot be less than \$100.00 or more than \$4,000.00 per year as determined by the institution.

Federal Perkins Loan

The Perkins Loan Program is a low interest (5 percent) loan to assist students in meeting their educational expenses. Loans are available to graduate and undergraduate students who demonstrate exceptional financial need and meet the student eligibility requirements listed previously. The maximum annual loan amount limit for an eligible student is (1) \$3,000.00 for a student who has not yet completed an undergraduate degree program or (2) \$5,000.00 for a graduate or professional student. 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. It is also possible to defer loan payments under certain conditions (information concerning deferments is available from the Financial Aid Office).

Federal College Work-Study (CWS)

The College Work-Study program provides jobs for students who are in need of earnings to assist in meeting their educational expenses. Graduate and undergraduate students may be selected for employment if they demonstrate financial need and meet the student eligibility requirements listed previously. In addition to College Work-Study employment, jobs are also available to students through the university's student employment program. In both programs, the Student Employment Office works to place eligible





pg. 6-49 24 4/18/02, 2:31 PM



students into the jobs that are posted with it by university offices and departments. (See #4 under "Information for Aid Recipients".) 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 educational program or vocational goals. The rate of pay is at least equal to the Federal minimum wage. Higher hourly wages may be paid depending upon the job and the student's qualifications.

Federal Direct Student Loan Program

The Federal Direct Student Loan Program is designed to provide loans to undergraduate and graduate students who are enrolled at least half time. Eligibility for the subsidized Direct Loan is based on need. Although eligibility for the unsubsidized Direct Loan is not based on need, students must first apply for their maximum eligibility through the subsidized Direct Loan, and are therefore required to apply for financial aid (see How To Apply for Financial Aid). Students may never borrow more than the cost to attend minus other aid received or up to the following maximums:

Annual Loan Limits*	Subsidized	Unsubsidized	
By Grade Level		Dependent	Independent
Freshmen (1-27 crs.)	\$2,625	\$2,625 minus subsidized awarded	\$6,625 minus subsidized awarded
Sophomore (28-55 crs.)	\$3,500	\$3,500 minus subsidized awarded	\$7,500 minus subsidized awarded
Junior (56-90 crs.)	\$5,500	\$5,500 minus subsidized awarded	\$10,500 minus subsidized awarded
Senior (91+ crs.) and Post Bachelor (1 year eligibility)	\$5,500	\$5,500 minus subsidized awarded	\$10,500 minus subsidized awarded
Special Grad (1 year eligibility)	\$8,500		\$18,500 minus subsidized awarded
Graduate	\$8,500		\$18,500 minus subsidized awarded

Repayment of Federal Direct Loans begins six months after a student drops below halftime study, withdraws or graduates.

The current interest rate (variable) is posted outside the Financial Aid Office and is based on the rate of the 91 day T-bill plus 3.1% (adjusted every July 1). The rate of interest on new loans may not exceed 8.25%. An origination fee of 1.5% is deducted from the administrative costs of the program.

Students who receive Direct Loans are required to have loan counseling before they receive their first check and then again before they leave the university. 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. A default occurs when a borrower fails to make installment payments for 180 consecutive days and will result in the Financial Aid Office placing a hold on a student's academic records, preventing the release of his academic transcript. In addition, the state and federal governments may assess additional penalties such as assignment to a collection agency, withholding of state and federal tax refunds, or initiation of legal action.





pg. 6-49 25 4/18/02, 2:31 PM



First time borrowers of a direct loan will receive a promissory note that must be completed and submitted to the Financial Aid Office. This master promissory note should be sufficient for applications for funds for up to four years (or 20 disbursements).

Federal direct student loans for parents (PLUS Loans)

The Federal Direct PLUS Loan Program is not based on financial need, and allows parents to borrow money for a dependent student. To be eligible to apply, the student must be enrolled in or accepted to a degree granting program. The Direct PLUS Loan Application and Promissory Note is available from the Financial Aid Office.

Parents may borrow up to the cost of the student's education (as determined by the university) minus other financial aid.

The interest rate is variable, with a cap of 9%. The current rate is posted outside the Financial Aid Office and is based on the rate of the 52 week T-bill plus 3.1 % (adjusts every July 1).

An origination fee of 1.5% and a guarantee fee of 1% will be deducted from the loan and the borrower receives the net proceeds. The fees are used to cover administrative costs of the program.

The first payment is due within 60 days of the first disbursement. Several different payment plans are available. Detailed information concerning application procedures is available from the Financial Aid Office.

Other programs and services

Oakland University Grant

The Oakland grant is available to high-need residence hall students who are enrolled full time in their first undergraduate degree program.

Local and Private Funds

In addition to government and school sources of assistance, many private agencies support student assistance programs. Some of these are local social groups, professional associations, civic organizations, corporations, churches and unions. Since these programs vary from one community to the next, information concerning them varies as well. Besides the sponsoring organizations themselves, information may sometimes be obtained from high school counseling offices, the Financial Aid Office and the Financial Aid Office website (see "Access Public Scholarship Search Tools").

State of Michigan Programs

Michigan Competitive Scholarship

Initial qualification is based upon performance on the ACT examination, which must be taken while the student is in high school. Scholarship recipients must demonstrate financial need and meet the general eligibility requirements established by the state legislature. Additional information is available from all high school counseling offices.

Michigan Educational Opportunity Grant (MEOG)

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

Michigan Work-Study Program

The Michigan Work-Study Program is designed to provide work opportunities for needy undergraduate students who are Michigan residents and are enrolled at least half time. (See "College Work-Study" description on how to register for employment.)





pg. 6-49 26 4/18/02, 2:31 PM



Michigan Adult Part-Time Grant Program

The Adult Part-Time Grant is designed to provide grant assistance for needy, adult undergraduate students who are Michigan residents and are enrolled on a part-time basis (3-11 credit hours).

How to apply for financial aid

You may apply for financial aid either by completing the Free Application for Federal Student Aid (FAFSA) (these are available from high school counseling offices and college and university financial aid offices) or by completing the application over the Internet at http://www.fafsa.ed.gov. The application should be completed as soon as possible after January 1. As long as you have listed Oakland University as one of the schools to receive your application (be sure to use Oakland's federal code of 002307 in Step 6), the financial aid office will receive your application electronically.

The Financial Aid Office will begin in March to notify students by mail of the amount and types of financial assistance for which they are eligible. Aid is normally offered only for the regular academic year (fall and winter semesters).

The Federal Government selects a percentage of applicants every year for verification of accuracy. If you are selected, you must provide verification documents to the Financial Aid Office by July 1. If you apply for financial aid after July 1, and verification of your application is required, your award eligibility will not be determined until you submit the verification documents.

The costs of attending Oakland University

Costs of attendance include tuition and fees, books, room and board, transportation and personal expenses. (The allowance for tuition is based on the average enrollment of full-time students: 14 credits per semester for undergraduate students and 9 credits per semester for graduate students.) The allowances used in determining financial aid eligibility for freshmen and sophomore students are as follows:

	Residence Hall/Commuter not living with parents	Commuter living with parents
Tuition	\$3,703	\$3,703
Fees	472	472
Books/Supplies	560	560
Room and Board	4,978	1,800
Personal	730	730
Transportation	630	<u>1,125</u>
TOTAL.	\$11.073	\$8.390

These are the costs as of August 2001 and are based upon full-time enrollment for the fall and winter semesters and for a double room, room and board residence hall contract. For tuition and fee charges for juniors and seniors, add \$371.00. For graduate students, add \$725.00. (Refer to the Schedule of Classes for current charges.)

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

Freshmen and sophomores	\$6,489
Juniors and seniors	\$6,907
Graduates	





pg. 6-49 27 4/18/02, 2:31 PM



Determination of financial need

When family and student resources are insufficient to meet educational expenses, the student is considered to have demonstrated "need" for financial aid. Financial need is determined as follows: the information provided by the family on the Free Application for Federal Student Aid, which is a listing of family resources, is analyzed according to a system mandated by the United States Congress. The review results in the determination of an "expected family contribution" (the amount the family is expected to provide toward the student's educational expenses during the academic year). The expected family contribution is then subtracted from the cost of attending the school (see Oakland's costs under "General Information") to determine the amount of financial aid that is needed. (You can get a booklet describing the formula that produces the expected family contribution by writing to: Federal Student Aid Information Center, P.O. Box 84, Washington, D.C. 20044.)

Packaging of financial aid

Oakland University attempts - within the constraints of limited resources - to meet as much of the need of its students as possible. Aid is offered in the form of grants, loans or employment. The specific proportion of how these types of aid are offered is called packaging. Packaging guidelines have been established to recognize differences in circumstances between students with high financial need and students with low financial need.

Students with high need: Depending upon available resources, an attempt is made to package gift aid to self-help assistance at a rate of two to one (all gift aid resources are considered in packaging according to this formula).

Generally, students with low need are offered only self-help assistance (work study and/or student loans).

In addition, depending upon the level of need, grant and loan funds are not generally offered in amounts that exceed direct educational costs. For residence hall students, these costs consist of tuition, fees, books and room and board. For students who commute, direct educational costs consist of tuition, fees, books and transportation. Consideration is given in those instances where a student wishes to replace a loan with employment.

Appeal procedure for financial aid and scholarship recipients

The appeal procedure involves grievance of a policy or procedure as opposed to a grievance of federal and/or state guidelines and regulations.

The procedures for appealing institutional financial aid policies or for appealing whether or not the Financial Aid Office has appropriately administered a program or policy are as follows:

- 1. The student states the grievance or complaint on the appropriate form for this purpose.
- 2. The Financial Aid Office administrative staff will promptly review the grievance or complaint in conference.
- 3. If a solution is reached as a result of the review occurring in (2), the student will be immediately informed in writing.
- 4. If a solution is not reached because the grievance or complaint is of a nature that requires some action on the part of the student, the student will:
 - a) be notified in writing of the proper action to take, or;
 - b) be asked to meet with the financial aid staff.





pg. 6-49 28 4/18/02, 2:31 PM



- 5. If the grievance or complaint is concerned with a policy or the administration of a policy or program that is within the purview of another department, the Financial Aid Office will, when it seems appropriate to do so, confer with that department on the student's behalf. In other cases, the student will be referred directly to the department.
- 6. If the student wishes to appeal any decision resulting from the procedures followed above, he/she may request a review by the Financial Aid Committee. A review may be requested by submitting an appeals form, which is available from the Student Congress Office, the Hamlin Hall reception desk and the Student Life Office.

Standards of satisfactory academic progress

Oakland University is committed to providing fair and equal access to resources to meet educational costs for students, based upon financial need. To receive federal, state and institutional financial aid at OU, you must meet the academic progress standards outlined in this statement.

The Financial Aid Office monitors the academic progress of continuing students at least once a year, after the winter semester. Your complete academic record at Oakland University will be used to determine if you satisfy the progress requirements, even if you did not receive financial aid for the enrollment period.

These progress standards are applicable to the following programs:

College Work-Study, Federal Direct Loans, Federal PLUS Loans, Michigan Adult Part-Time Grants, Michigan Competitive Scholarships, Michigan Educational Opportunity Grants, Michigan Work-Study, Oakland University Institutional Scholarships, Oakland University Grant, Pell Grants, Perkins Loans, Supplemental Educational Opportunity Grants

Some scholarships have standards stricter than those outlined here. Those standards vary for each scholarship and are explained in the **scholarship** descriptions.

Two criteria must be met in order to determine whether students are meeting the Standards of Satisfactory Academic Progress:

1. Qualitative – Students must maintain a cumulative GPA of 2.00 at all times. Students failing to meet the GPA requirement are placed on Financial Aid Warning and are given until the end of the next enrolled semester to make up the deficiency. Students who choose not to enroll at Oakland University during the warning period will be evaluated as of their next fall or winter enrollment. Students who fail to achieve the required GPA by the end of the warning semester are no longer eligible to receive financial aid.

Students who achieve a cumulative GPA of 2.00 or above regain eligibility and may apply for financial aid their next semester of enrollment.

Students who lose their eligibility due to deficient GPA may appeal if unusual or extreme circumstances exist, such as illness, severe injury, personal or family crisis, or the death of a student's relative. Appeals must be submitted to the Financial Aid Office in a timely fashion for consideration. A deadline for appeal will be provided in the letter notifying students that standards have not been met.





pg. 6-49 29 4/18/02, 2:31 PM



2. Quantitative — Students must be completing courses and making progress toward degree requirements. Students must complete a minimum of two-thirds (67%) of credit hours attempted each academic year. Students who fail to meet this requirement are placed on Financial Aid Warning and are given until the end of the next enrolled semester to make up the deficiency. Students who fail to complete at least two-thirds (67%) of attempted credit hours while in their warning semester are no longer eligible to receive financial aid.

Students may regain their financial aid eligibility by successfully completing 12 semester credit hours at their own expense.

Students who lose their eligibility due to completion may appeal and must adhere to the appeals process as stated above.

A Financial Aid Appeals Committee will be established to review Satisfactory Academic Progress appeals. This committee will be comprised of staff from Financial Aid, Academic Advising and the Dean of Students' Office. Decisions of the committee are final. Students will be responsible for providing adequate information to make their situation known to the appeals committee. Decisions will be made based on the information provided with no subsequent meeting on the part of the committee.

Calculating what you will be expected to pay

To determine what you and/or your parents will need to pay toward your bill, you should 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. Subtract this from the total you calculated in #1 above.
- 3. If there is a balance still owed, you are responsible for paying the difference by the appropriate due date.
- 4. If your aid is greater than your charges, you will receive a refund.

EXAMPLE:	tuition & fees =	\$1,950
D: 11 11 11 DD	room & board =	\$2,450
	total owed =	\$4,400
	financial aid =	\$3,500
	remaining balance =	\$ 900

Financial aid disbursement policy

Financial aid will be disbursed by crediting the student account (excluding non-disbursable aid such as work study). If <u>authorized financial aid</u>* exceeds charges, a student may elect to transfer up to \$300.00 of their excess financial aid to their Spirit Card to purchase books. These funds will be available for use at the OU Bookstore five (5) business days prior to the first day of classes. An active Spirit Card and a signed authorization is required. Authorizations can be obtained by contacting the Office of Student Financial Services in 120 North Foundation Hall or by calling 248-370-2550. If there is any remaining credit balance on the student account, a check will be mailed to the student within 14 days of the day the financial aid was applied to the account (please refer to the term calendar in the current Schedule of Classes).

* Authorized financial aid means that the financial aid is ready to be applied to the student account: all appropriate paper work is complete and handed in; the student is registered for





pg. 6-49 30 4/18/02, 2:31 PM



the appropriate number of credit hours; the student has an active housing contract on file if the aid requires dorm residency.

Return of Title IV financial aid funds

Effective July 1, 2000 new Federal regulations went into effect concerning Title IV funds paid to students who withdraw from school before the 60% completion point of the semester in which they withdraw.*

Title IV funds include: FSEOG, Pell Grants, Perkins loans, and Federal Subsidized, Unsubsidized and Parent PLUS Direct Loans.

If a student withdraws from school, a calculation will be performed to determine the "earned" amount of Title IV funds the student is entitled to keep. The calculation will determine: (1) the amount of funds disbursed to the student, (2) the length of time the student attended, (3) the amount of funds the student is entitled to keep, (4) the amount of funds to be returned to the program by the school, and (5) the amount to be returned/paid by the student.

For example: John Doe attends Oakland University summer semester 2001. Classes begin on June 26, 2001. Classes end on August 17, 2001. John receives a Federal Pell Grant of \$500.00 and an Unsubsidized loan of \$1,000.00. John's total tuition and fee assessment was \$701.20. All of John's financial aid was disbursed to his student account paying his summer tuition and fees. Excess financial aid of \$701.20 - \$1,500.00 = \$798.80 was sent to John by check. John decides to withdraw from the university on July 20, 2001. A calculation is performed to determine the amount of "earned" Title IV funds:

There are 52 days in the summer semester. John withdrew on July 20, 2001. John attended 24 days or 24/52 = 46.2% of the semester. John "earned" 46.2% of the \$1,500.00 Title IV funds disbursed to his account, or \$693.00. The difference of \$807.00 must be returned to the Title IV program. Oakland University will: (1) take away \$807.00 in Title IV funds, (2) post a charge of \$807.00 to John's student account, and (3) send \$807.00 back to the loan program to reduce the subsidized loan. The balance of \$807.00 on John's account will prevent him from registering for future semesters and prevent him from obtaining his transcripts until the balance is paid in full.

Should the calculation result in an amount to be returned to the Federal Pell Grant or Federal SEOG programs, the account will be referred to the Department of Education for repayment. A student who owes a grant repayment retains eligibility for Title IV assistance for 45 days. To continue eligibility past 45 days, the student must either pay the overpayment in full or make satisfactory arrangements to repay the Department of Education.

* Students are considered to have "earned" 100% of their Title IV funds if they withdraw after the 60% completion point of the semester in which they withdraw.

Scholarships

The wide range of scholarship opportunities at Oakland University indicates the scope of the university's commitment to academic excellence, student leadership and achievement. Scholarships are awarded on the basis of accomplishment and are not contingent upon financial need. Many awards are made in early spring for the next academic year and are only available to those students entering in the fall semester. A scholarship application is required for consideration to receive these scholarships; one is included with the application for admission. Most scholarships are renewable if recipients meet the criteria outlined at the time the scholarship was originally awarded. The process for scholarship renewal is automatic and does not require the submission of an application.





pg. 6-49 31 4/18/02, 2:31 PM



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

- Alumni Memorial Scholarship: Recognizes high academic achievement. Applicants should have a minimum of 3.75 high school GPA and a composite score of 27 or above on the ACT examination. A written essay and personal interview are also required. Scholarships may be renewed for a maximum of eight semesters as long as a 3.25 GPA is maintained.
- Anibal Excellence Scholarship: Recognizes high academic performance of entering high school students. Students must have a minimum 3.50 high school GPA. Scholarships may be renewed for a total of eight semesters as long as a recipient maintains a cumulative 3.25 GPA.
- **Auburn Hills Scholarship:** Three scholarships in the amount of tuition and fees awarded annually to students graduating from high schools serving the city of Auburn Hills. The awards are based on academic excellence and are renewable.
- **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. The scholarship is renewable.
- **David and Marion Handleman Scholarship:** Half-tuition scholarships available to Honors College students who demonstrate financial need. Scholarships are offered both to students who are demonstrated leaders and who have performed well academically, and also to students who have demonstrated academic promise.
- **Detroit Compact Scholarship:** Awarded to graduating Detroit Compact high school seniors who have met Detroit Compact criteria, which include a 3.00 high school GPA and a composite score of 21 on the ACT. Scholarships may be received for a total of eight semesters as long as a 2.50 GPA is maintained.
- **Dorothy and Walton Lewis Scholarship:** Awarded to an academically promising student from Detroit who demonstrates financial need. The scholarship is renewable.
- Florine Trumbull Scholarship: Recognizes academic achievement of entering nursing students. Recipients must be graduates of Michigan high schools. Scholarships may be renewed for a total of eight semesters as long as the recipient maintains a 3.00 GPA.
- 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.
- **Isaac Jones Memorial Scholarship:** Awarded to an academically promising student from Pontiac. The scholarship may be renewed for a total of eight semesters.
- **Kurtis Kendall Memorial Scholarship:** Recognizes achievement in the sciences for men and women entering Oakland University with goals of research in medical areas. Students should have a minimum of 3.40 high school GPA. Scholarships may be renewed for a total of eight semesters as long as a recipient maintains a 3.25 GPA and continues to major in the sciences.
- Oakland University Engineering Scholarship: Awarded to entering engineering students and based on a minimum 3.50 high school GPA and scores on a standardized test. Scholarships may be renewed for a total of eight semesters as long as a recipient maintains a 3.00 GPA and continues to major in engineering.
- Oakland University 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.





pg. 6-49 32 4/18/02, 2:31 PM



- 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 semesters.
- Oakland University Student Life Scholarship: Awarded to students who have shown leadership potential, either in high school or community college. Students must have a minimum 3.00 GPA, be active in cocurricular or extracurricular activities and reside in university residence hall. Scholarships may be renewed for a total of eight semesters for students who enter as freshmen or four semesters for students who enter as transfers.
- Oakland University Talented Scholar Awards: Awarded to high school students in recognition of outstanding academic achievement. Students must have a minimum 3.50 high school GPA. Scholarships may be received for a total of eight semesters as long as a 3.25 GPA is maintained.
- 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 nonresident high school students in recognition of academic achievement. Students must have a minimum 3.30 high school GPA, and recipients are required to live in the residence halls. Scholarships may be received for a total of eight semesters as long as a 2.00 GPA is maintained.
- 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). Students must maintain a 3.00 GPA.
- 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 received for a total of eight semesters as long as a 2.50 GPA is maintained.

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

- **Athletic Scholarship:** Awarded to men and women athletes with ability in one of the intercollegiate sports offered at Oakland. Scholarship amounts vary and are renewable for a maximum of eight semesters.
- Ben and Virginia Hawkins Scholarship: Awarded each year to a student of outstanding promise performing in the Meadow Brook Estate as selected by the Department of Music, Theatre and Dance.







- George and Elizabeth Pyle Seifert Merit Scholarship: Awarded each year to a student of outstanding promise performing in the Meadow Brook Estate as selected by the Department of Music, Theatre and Dance. The recipient must be a departmental major.
- **Gittlen Award for Achievement:** Awarded annually to two seniors who have been active in the theatre as selected by the Department of Music, Theatre and Dance.
- **Jacob Decker Dance Award:** Awarded each year to a student of dance as selected by the Department of Music, Theatre and Dance.
- Marshall Page Atkinson Endowed Memorial Scholarship: Awarded each year to a student of outstanding promise performing in the Meadow Brook Estate as selected by the Department of Music, Theatre and Dance.
- **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 Service Awards: Awarded primarily to entering students who intend to major in music, theater 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.
- **Philip M. Cherven Memorial Endowment:** Awarded each year to a student majoring in music as selected by the Department of Music, Theatre and Dance.
- **Robert W. and Elaine M. Swanson Endowed Scholarship:** Awarded each year to a student of outstanding promise performing in the Meadow Brook Estate as selected by the Department of Music, Theatre and Dance.

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

- Black Alumni Affiliate 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 his or her major and a cumulative 3.0 GPA at Oakland.
- College of Arts and Sciences Alumni Affiliate 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 his or her major and a cumulative 3.00 GPA at Oakland
- **Honors College Alumni Affiliate 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 his or her major and a cumulative 3.00 GPA at Oakland.
- School of Business Administration Alumni Affiliate 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 his or her major and a cumulative 3.00 GPA at Oakland.
- School of Education and Human Services Alumni Affiliate 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 his or her major and a cumulative 3.00 GPA at Oakland.





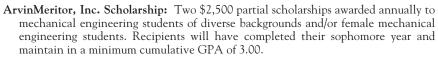
pg. 6-49 34 4/18/02, 2:31 PM

35



- School of Engineering and Computer Science Alumni Affiliate 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 his or her major and a cumulative 3.00 GPA at Oakland.
- School of Health Sciences Alumni Affiliate 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 his or her major and a cumulative 3.00 GPA at Oakland.
- School of Nursing Alumni Affiliate 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 his or her 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 \$500 per semester for up to four semesters. To qualify a student must maintain at least a 3.40 GPA in the School of Business and a cumulative 3.00 GPA at Oakland.
- **Thomas A. Yatooma Engineering Alumni Memorial Scholarship:** Awarded each year to a junior or senior with major standing in the School of Engineering and Computer Science in the amount of \$1,000 per semester for up to two semesters. To qualify a student must maintain a cumulative 3.25 GPA at Oakland and be considered a full time student.

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



- **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.





pg. 6-49 35 4/18/02, 2:31 PM



- 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 Tafralian 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.)





pg. 6-49 36 4/18/02, 2:31 PM



- **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.
- **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 each year to a student 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. 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.
- Keeper 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.





pg. 6-49 37 4/18/02, 2:31 PM



- 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 Award:** Awarded annually to an Oakland County resident who is a non-traditional student with family responsibilities. Applications are available in February from the Financial Aid Office. One award of \$250 is offered.
- **Macomb Town Hall Scholarship:** Awarded to upperclass undergraduate students from Macomb County in recognition of academic excellence. Scholarships are in the amount of \$1,000 and are awarded for one year. Recipients are selected by the Macomb Town Hall Scholarship Committee.
- Mary Kirachuk Scholarship: Two \$1,500 scholarships awarded annually to students with an interest in Slavic studies. Application information is available from the Office of the Dean of the College of Arts and Sciences.
- 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.
- Milo J. Cross Memorial Scholarship: Awarded annually to a student in recognition of academic excellence. Preference is given to the children, grandchildren or spouses of employees of the former Pontiac State Bank. The award amount varies.
- 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.
- Pagano Memorial Award: A \$5,000 scholarship awarded annually to a graduating senior from the Pontiac school district. Selection is based upon academic achievement. The scholarship is not renewable.





pg. 6-49 38 4/18/02, 2:31 PM

39



- Paul Lorenz/Texas Instruments Scholarship: Awarded annually to the student in the School of Business Administration who has achieved the highest grade point average at the completion of his/her junior year. The scholarship covers full tuition up to a maximum of 32 credits.
- **Philosophy Department Scholarship:** A scholarship of \$1,200 awarded annually to a philosophy major demonstrating academic promise. The recipient is chosen by the faculty of the Department of Philosophy.
- **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.
- **Stephan Sharf Endowed Scholarship:** Awarded annually to an employee of DaimlerChrysler Corporation or a son or daughter of an employee of DaimlerChrysler Corporation.
- 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.
- United Auto Workers Region 1B Golf Classic Scholarship: One scholarship of \$1,000 is awarded to an eligible student who shows promise of fulfilling a socially worthwhile career and contributing to the advancement of the quality of life for people in our society. Nominations for this award are sought from Oakland University faculty. A second scholarship of \$2,000 is awarded to an eligible student who is the son or daughter of a UAW member or to a UAW member meeting the same criteria. Applications for this scholarship are available in February from the Financial Aid Office. Recipients are selected by the UAW Golf Classic Scholarship Committee.





pg. 6-49 39 4/18/02, 2:31 PM



- **Upperclass Scholarship for Achievement:** Scholarships of \$500 awarded to continuing Oakland University students based on scholastic performance. Applicants must have a 3.50 GPA at the end of the previous winter semester and have earned at least 32 credits at the university during the previous academic year. Recipients must be enrolled for 16 credits in both the fall and winter semesters. Applications are available in February from the Financial Aid Office.
- **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 Campbell-Ewald Scholarship Fund George H. Gardner Scholarship Fund C. Allen Harlan Scholarship Fund Herbert M. Heidenreich Scholarship Fund Ormond E. Hunt Scholarship Fund Village Women's Club of Birmingham Scholarship Fund Ruth E. Wagner Scholarship Fund

A. Glen Wilson Scholarship Fund Matilda R. Wilson Memorial Honor Scholarship Fund Thomas E. Wilson Scholarship Fund Harry A. MacDonald Memorial Scholarship Fund Mildred Byars Matthews Memorial Scholarship Fund Oakland University Women's Club Scholarship Fund

Student Affairs and Services

The Division of Student Affairs provides an array of out-of-class support services, leisure activities and educational programs that complement and enhance students' educational experiences. The Office of the Vice President for Student Affairs is located in 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.





pg. 6-49 40 4/18/02, 2:31 PM



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 Fulbright, 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 Monday through Thursday 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.

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. 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.

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 Resource Center

The Career Resource Center, located in 154 North Foundation Hall (248-370-3263), assists students with their early career development needs. It provides a variety of career resources designed to assist students in making choices about academic majors and careers. Resources include computerized career guidance and educational planning systems, personality and interest inventories, a career and video library, topical career seminars and individual advising/counseling.





pg. 6-49 41 4/18/02, 2:31 PM



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, special testing arrangements, assistive technology, referrals to outside service agencies, assistance in identifying volunteer notetakers and volunteer readers, assistance with sign language interpreter services and with any general needs or concerns. Students with special needs are encouraged to utilize these services. 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 the Office of University Diversity and Compliance, 105 North Foundation Hall, 248-370-3496.

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 and staff. The center houses three programs (preprimary, preschool and toddler) and is located at Adams and Butler roads at the southeast corner of the campus (248-370-4100). 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 preprimary program is a kindergarten program that offers three options for the full school year: a half-day kindergarten program, a half-day prekindergarten program and an all-day kindergarten program. Extended hours are available.

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

The Center operates weekdays from 7:30 a.m. to 5:30 p.m. Space in all programs is limited. Parents are encouraged to register their children during early registration for university terms, though space may be available during regular registration. Lowry also





pg. 6-49 42 4/18/02, 2:31 PM



offers ENVIRO-EXPLORERS, a summer day camp program for children 18 months to 9 years old, focusing on mathematics, science and technology. (See the Schedule of Classes each term for details.)

Experiential Education

Experiential Education is a group of programs offered by the Department of Placement and Career Services providing students with 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), AmeriCorps, and Cooperative Education.

Career-related and Internship programs offer students the opportunity to combine classroom learning with practical work experience. AmeriCorps is a federally funded program that utilizes 40 Oakland University students to meet the educational and human services needs of youths in the Pontiac community. All students are encouraged to explore these programs.

Cooperative Education is an academic program that enables eligible students who have completed their sophomore year to gain paid work experience in their major fields. It allows students to graduate from college with valuable career-related work experience and introduces them to professionals in their prospective fields. Students often receive job offers from their co-op employers upon graduation.

There are two forms of co-op: alternating co-op, where students work full time for a four-month period and return to the classroom for the next four months; and parallel co-op, where they work part time (approximately 20 hours per week) and simultaneously continue to attend university classes. Cooperative education is available for majors in the College of Arts and Sciences, the School of Business Administration, and the School of Engineering and Computer Science, and for selected majors in the School of Education and Human Services and the School of Health Sciences. For information contact Experiential Education, 156 Vandenberg Hall West (248-370-3213).

Health Services

Oakland University students, faculty and staff may receive physician and 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 assistance, and ability to handle minor trauma and to give initial treatment to more serious emergencies. Allergy injections are given while a physician/nurse practitioner is on the premises (the patient must have a doctor's written instructions and vaccine that may be stored at the health center). Information is available on weight control, nutrition, smoking cessation, exercise and many other topics. The center will bill most insurance companies except some HMO plans. Student health insurance is available at reasonable rates.

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. 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.

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.





pg. 6-49 43 4/18/02, 2:31 PM



Oakland Center

The 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 Taco Bell, Pizza Hut and Burger King. The University Bookcenter is housed in the Oakland Center, as well as vending machines, a campus information center, a games room, Copy Stop Etc., public telephones, newspaper machines, a TV lounge and meeting rooms. Also located in the Oakland Center are the offices of Student Activities and Leadership Development, Student Affairs, Dean of Students, ARAMARK food service, the ID Card Office, student organizations, University Congress, *The Oakland Post* student newspaper and WXOU-FM, the student-operated radio station.

Office of Equity

The Office of Equity 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 office 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 Office of Equity is located in 121 North Foundation Hall (248-370-4404).

Orientation

All students new to Oakland University are expected to attend an orientation session before their first registration. During orientation, students are advised on course selection, informed about important policies and procedures, given information on services and activities available and introduced to the academic environment. At the conclusion of orientation, students select their first-term courses.

Orientations are also held for the parents of new 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 and Career Services

The Department of Placement and Career Services (275 Vandenberg Hall, West 248-370-3250) assists in identifying professional-level career-related full-time, part-time and seasonal employment opportunities for both students and alumni. Its Experiential Education 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. Its Professional Employment unit provides assistance to graduating students and alumni in locating career positions. The Career Resource Center, located in 154 North Foundation Hall (248-370-3263), provides individualized career exploration via computerized career and educational planning systems, a career library, career advising/counseling, and interest inventories.

The department provides direct access to job opportunities through on-campus interviews, job referral activities and job vacancy postings daily on the Internet. CareerConnections, a computerized system, is used to register students and alumni for referral and on-campus recruiting and to produce a professional-looking resume. Individual placement advising and career information are available to both students and alumni, including open advising during designated hours.





pg. 6-49 44 4/18/02, 2:31 PM

Placement and Career Services offers a variety of job fairs and career information/networking programs. Special seminars assist students in developing job search skills. In addition, information is publicized about internship/fellowship opportunities generated outside the university. The department also maintains a home page on the Internet that contains career resources and links to other job/career information. The Web address for Placement and Career Services is http://phoenix.placement.oakland.edu.

The department library contains both printed and videotaped employer information, plus 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.

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 advisors 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.

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 Spanish, French, German and Calculus exams during the summer orientation programs. During the academic year, the Department of Mathematics and Statistics, 368 Science & Engineering Building (248-370-3430), and the Department of Modern Languages, 418 Wilson Hall (248-370-2060), offer testing on an individual basis, usually by appointment. For more information, contact the Office of New Student Programs, 134 North Foundation Hall (248-370-3260).

Residence Halls and University Housing

Oakland University's residence halls offer a special way of life for approximately 1,400 students each year: the chance to live with different people, develop social and leisure interests, begin lifelong friendships and become involved as a student leader. Many students find it a rewarding experience, helping to further academic success.

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

There are many hall 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. The residence halls offer a variety of living options including a wellness hall, scholars' tower, an upper-division hall and 24-hour quiet floor.





pg. 6-49 45 4/18/02, 2:31 PM



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 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 and select "Campus Life and Services".

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 programs and retreats, 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/awareness, 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.

University Student Congress is an elected, campus-wide governmental body that addresses student needs. In addition to its administrative duties, University Student Congress provides funding for the Student Allocations Funding Board (SAFB), which allocates money to recognized student organizations, and for the Student Program Board (SPB), which is responsible for films, lectures, concerts and other social activities.

Many student services are provided through the Center for Student Activities Office including use of computers, locker rental, event tickets, trip sign-ups and student organization registration information. Consultation is available to students planning social, educational and cultural activities. Students are encouraged to get involved and gain experience in program development and implementation. The Office coordinates Week of Champions at Oakland University (WOCOU), blood drives, the Patio Concert Series, College Bowl, evening and weekend activities, leadership and diversity awareness programs. Additionally, the Center for Student Activities assists in planning Hispanic Celebration Week, African-American Celebration Month, OU Alcohol Awareness Week, Cultural Awareness Week, and Women's History Month.

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





pg. 6-49 4/18/02, 2:31 PM



For more information about becoming involved, contact the office or visit the Web site at: www3.oakland.edu/currentstudents/csa.

Testing Services

The Bachelor of General Studies office (416 Varner Hall, 370-3227) administers the ACT, CFP, GRE, LSAT, MCAT, NBCC 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 and provides both wages and room and board in the summer.

The GEAR UP Project (Varner House, 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 Awbrey, Ph.D.

The Office of Undergraduate Education addresses areas of the undergraduate academic experience that are university-wide. 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. OUE is responsible for the review of academic programs mandated by the University Senate. At least once every 10 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. OUE also has oversight of the university's accreditation through the North Central Association of Schools and Colleges. The office conducts an annual orientation to acquaint new faculty with Oakland University and to help ensure a productive classroom experience.

To ensure quality in a time of change, OUE has responsibility for several university task forces that are in the process of reviewing and enhancing advising, academic assessment practices, general education and international academics as well as a task force devoted to developing the first Institute for Teaching and Learning at Oakland University.





pg. 6-49 4/18/02, 2:31 PM



The Office of Undergraduate Education, through the Undergraduate Research Committee, encourages faculty to engage undergraduate students in research projects and to mentor undergraduate scholarship. OUE helps to support the College of Arts and Sciences' multi-institution initiative, Meeting of the Minds, that showcases students' scholarly achievements.

OUE in conjunction with the University Committee on Undergraduate Instruction is responsible for the implementation of the university's diversity requirement and for promoting diversity in the curriculum.

Units reporting to the Office of Undergraduate Education include: the Honors College and Bachelor of General Studies. Beginning with the 2001-2002 edition, OUE assumed responsibility for the production of the undergraduate catalog. The Office of Undergraduate Education is located in 520 O'Dowd Hall and can be reached at (248) 370-4955.

Office of Research and Graduate Study

Interim Vice Provost for Research and Graduate Study: Ranald Hansen, Ph.D.

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 Research and Graduate Study, the University Bookcenter or www.oakland.edu/grad. Prospective students should also consult the school or department in which they wish to study or the Office of Graduate Study (160 North Foundation Hall, 248-370-3167).

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, systems engineering

Doctor of Physical Therapy

Doctor of Science: 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

Master of Business Administration

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









Master of Music: composition, conducting, music education, piano pedagogy, piano performance, vocal pedagogy, vocal performance

Master of Physical Therapy

Master of Public Administration

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

Master of Science in Nursing: nurse practitioner, adult health and nurse anesthetist tracks

Master of Training and Development

Graduate certificate programs

Accounting Business Economics Clinical Exercise Science Complementary Medicine & Wellness Corporate Worksite Wellness Early Mathematics Education Educational Administration Exercise Science Family Nurse Practitioner

Finance

Human Resources

International Business

Management Information Systems

Marketing

Microcomputer Applications in Education

Orthopedic Manual Physical Therapy

Pediatric Rehabilitation

Post-Master Reading, Language Arts and Literature

Preventive Medicine

Production/Operations Management

Statistical Methods







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 published in the Schedule of Classes each term.

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 posttests, 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.





pg. 50-74 50 4/18/02, 2:32 PM



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.





pg. 50-74 51 4/18/02, 2:32 PM



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:

- 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* 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, Advising Resource Center 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).
- Students who wish to audit courses must have been admitted to the university by the Office of Admissions.
- 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.





pg. 50-74 52 4/18/02, 2:32 PM



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





pg. 50-74 53 4/18/02, 2:32 PM



passing grade in the course, by passing a competency examination or by receiving transfer credit from another institution. In certain circumstances, a requirement may be formally waived through a successful Petition of Exception (see *Petition of exception*, below).

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

Undergraduate degree requirements

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

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

All students must complete 32 credits of general education, including at least one course (three or more credits) from the list of approved courses offered in each of the following eight field categories: arts; literature; language; Western civilization; international studies; social science; mathematics, logic and computer science; and natural science and technology. (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. Writing proficiency: Students must demonstrate proficiency in writing at or within a reasonable time after entrance to Oakland University. Entering students transferring 32 or fewer credits must demonstrate writing proficiency before they accumulate 48 credits in order to register or receive credit for upper-level courses (those numbered 300 or above). Entering students transferring 33 or more credits must demonstrate proficiency before they complete 16 credits at Oakland University in order to register for upper-level courses.

Proficiency may be demonstrated in several ways:

- a. By completing RHT 160 with a grade of 2.0 or better.
- b. By transferring two college-level English composition courses (at least six credits); one course should cover academic research writing. Students who have completed such courses with grades of 2.0 or better may submit their transcripts to the registrar for evaluation. Transfer students who have at least 3 credits in one English composition course may register for RHT 160.
- c. By petitioning the Proficiency Committee of the Department of Rhetoric, Communication and Journalism with a writing portfolio including:
 - 1. Identification cover page, including certification that the portfolio writing is the student's own work (obtain from the Department of Rhetoric, Communication and Journalism, 316 Wilson Hall, 248-370-4120).





pg. 50-74 54 4/18/02, 2:32 PM



- 2. Letter (suggested limit: one page) addressed to the composition faculty at Oakland University describing one's writing experience and development: what one has written, the process(es) used and how the enclosed documents demonstrate mastery of the skills developed in Rhetoric 150 and 160 (see catalog course descriptions).
- 3. The graded originals of three single-author papers written by the student for college classes (Oakland University or other schools). One of these papers must be research writing that demonstrates competency in a standard system of documentation (preferably MLA or APA; any other system must be identified). For the research writing, include photocopies of at least three cited pages from the sources used for the paper.
- 3. Ethnic diversity: Before graduation all students must acquaint themselves with American ethnic diversity by taking at least one course designated as exploring the implications of the discipline for ethnic perspectives and interrelationships. These issues will be addressed over at least three weeks in each such course. Oakland University courses approved as meeting the ethnic diversity requirement are listed on a following page and are also indicated in the course sections of this catalog under the appropriate academic units. These courses may be used also to meet general education, major, minor, distribution, concentration, elective credit or other degree requirements.
- 4. Specific requirements: Students must 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.
- 5. Application requirement: Before or during the semester or session in which they expect to complete all academic requirements, degree candidates must file an application-for-degree form at the Cashier's Office 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).
- 6. **Residence requirement**: Students must successfully complete a minimum of 32 credits at Oakland University. They must also complete at Oakland University the last 8 (4 for Bachelor of General Studies designation) credits needed to fulfill the requirements for a baccalaureate.
- 7. **Grade point average**: Students must have a cumulative grade point average (GPA) of at least 2.00 in courses taken at Oakland University. In certain programs, additional GPA requirements must be met.
- 8. **Upper-level credit requirement:** Students must have successfully completed at least 32 credits in courses at the 300 level or above. Students transferring credits to Oakland University should consult the *Transfer student information* section.





pg. 50-74 55 4/18/02, 2:32 PM



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^a 213 minimum on computer-based TOEFL^a

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

^aSome 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 Center for American English (CAE) 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 CAE 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 Center for American English (CAE) 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 CAE 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 Center for American English to discuss any language difficulties they may have while attending Oakland University.





pg. 50-74 56 4/18/02, 2:32 PM



General Education Requirements:

Each candidate for an Oakland University baccalaureate is required to complete satisfactorily at least one approved course from each of the following field categories. Students using this catalog to meet general education requirements may also use any course subsequently approved by the General Education Committee as satisfying requirements in a particular category and published in a later catalog. If a course listed below should be removed from lists of approved courses in later catalogs, it may still be used to meet a general education requirement by students following the 2002-2003 catalog.

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

AH 100	Introduction to Western Art I
AH 101	Introduction to Western Art II
AH 104	Introduction to the Arts of Asia and the Islamic World
CIN 150	Introduction to Film
DAN 173	Dance History and Appreciation
DAN 175	Ethnic Dance in America
MUS 100	An Introduction to Music
MUS 200	Cultural Foundations and Historical Development of
	Rock Music
MUS 236	Music in African Cultures
MUS 320	Western Music History and Literature
MUS 338	Jazz and Blues: American Musics
THA 100	Introduction to Theatre
THA 301	Theatre History I
THA 302	Theatre History II

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

ENG 100	Masterpieces of World Literature
ENG 105	Shakespeare
ENG 111	Modern Literature
ENG 112	Literature of Ethnic America
ENG 224	American Literature
ENG 241	British Literature
ENG 303	Fiction
ENG 305	Bible as Literature (identical with REL 311)
ENG 306	Drama
ENG 312	Classical Mythology
LIT 100	Introduction to Asian Literature
LIT 181	European Literature I
LIT 182	European Literature II

c. Language: Language both shapes and reflects human culture. The systematic study of a foreign language or of language systems will help students become aware that people think, behave and perceive reality in ways related to the languages they speak. Students may meet this requirement either by completing any of the courses listed below or by completing a 4-credit foreign language course numbered 115 or higher (or its equivalent).





pg. 50-74 57 4/18/02, 2:32 PM



ALS 176 CHE 114 FRH 114 GRM 114 JPN 114 LIN 181 LIN 207 LTN 114 LTN 115 ML 191 ML 192	The Humanity of Language Introduction to Chinese and Chinese Culture Introduction to French and French Culture Introduction to German and German Culture Introduction to Japanese and Japanese Culture Diversity and Change in English Meaning in Language (identical with COM 207) Latin I Latin II Tutorial in a Foreign Language Tutorial in a Foreign Language
ML 192	
RUS 114 SPN 114	Introduction to Russian and Russian Culture Introduction to Spanish and Spanish Culture
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d. **Western civilization:** Courses in this category examine significant political, social, economic and intellectual developments of Western cultures from a historical perspective. Students will develop skills of critical inquiry into historical events and investigate the foundations of Western thought.

HST 101	Introduction to European History Before 1715
HST 102	Introduction to European History Since 1715
HST 114	Introduction to American History Before 1877
HST 115	Introduction to American History Since 1877
HST 210	Science and Technology in Western Culture
HST 292	History of the African-American People
PHL 101	Introduction to Philosophy
PHL 103	Introduction to Ethics
PHL 204	Ancient Greek Philosophy
PHL 205	Medieval Philosophy
PHL 206	Early Modern Philosophy
PS 377	Communism

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

Introduction to China
Introduction to Japan
Introduction to Africa
Introduction to India
Introduction to Latin America
Introduction to Russia and Eastern Europe
Introduction to the Middle East

f. Social science: Courses in this category will introduce students to major concepts in a field of social science and its methods of scientific inquiry. The social sciences examine the influences of social and cultural factors on individual or group behavior and values.

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AN 101	Human and Cultural Evolution
AN 102	Culture and Human Nature
AN 300	Culture, Society and Technology
AN 307	Culture and Society through Film
ECN 150	Economics in Today's World





pg. 50-74 58 4/18/02, 2:32 PM



ECN 200	Principles of Macroeconomics
ECN 210	Principles of Economics
PS 100	Introduction to American Politics
PS 115	United States Foreign Policy
PS 131	Foreign Political Systems
PS 323	The American People and Their Presidents
PSY 100	Foundations of Contemporary Psychology
PSY 130	Psychology and Society
SOC 100	Introduction to Sociology
SOC 206	Self and Society

g. Mathematics, logic and computer science: Courses in this category examine systematic ways of approaching, processing and analyzing data and ideas from different disciplines. While divergent in approach, these courses will help students become more familiar with means of quantification and symbolic systems.

systems.	
CSE 125	Introduction to Computer Use
CSE 130	Introduction to Computer Programming
LIN 180	Linguistic Analysis
MTH 118	Mathematical Sciences in the Modern World
MTH 121	Linear Programming, Elementary Functions
MTH 122	Calculus for Social Sciences
MTH 154	Calculus I
PHL 102	Introduction to Logic
PHL 107	Introduction to Symbolic Logic
STA 225	Introduction to Statistical Concepts and Reasoning
STA 226	Applied Statistics

h. Natural science and technology: Courses in this category will introduce students to major concepts in a field of natural science or modern technology and to the methods of scientific inquiry. Students will also gain understanding of the impact and implications of natural science and technology in the modern world. BIO 104 Human Biology

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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
CHM 167	Honors General Chemistry
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 Sciences
PHY 107	Physical Geography
PHY 120	The Physics of Everyday Life
PHY 151	Introductory Physics I
SCI 100	Physical Sciences in Life, the World and Beyond





pg. 50-74 59 4/18/02, 2:32 PM



Ethnic Diversity Requirement

Each candidate for an Oakland University baccalaureate is required to take at least one course designated as exploring the implications of the discipline for ethnic perspectives and interrelationships. Oakland University courses meeting this requirement are listed below; those identified with an asterisk (*) also satisfy a general education requirement. Students using this catalog to meet the ethnic diversity requirement may also use any course subsequently approved by the Committee on Undergraduate Instruction and published in a later catalog. If a course listed below is completed and is subsequently removed from the list of approved courses in later catalogs, it may still be used to meet the ethnic diversity requirement by students following the 2002-2003 catalog. Approved courses will be indicated in the Schedule of Classes published for each term.

College	of .	Arts	and	Sciences
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College of Arts a			
AH 308	North American Indian Art (identical with AN 308)		
AH 352	African-American Art		
ALS 374	Cross-Cultural Communication		
	(identical with AN 374)		
ALS 375	Language and Culture (identical with AN 375)		
AMS 300	American Culture		
* AN 102	Culture and Human Nature		
AN 381	Peoples of North America: Indians and Inuit (Eskimos)		
*CIN 150	Introduction to Film		
COM 385	Communication and American Multicultural Diversity		
* DAN 175	Ethnic Dance in America		
*ENG 112	Literature of Ethnic America		
ENG 341	Selected Ethnic Literature		
ENG 342	The Black Experience in Literature		
*HST 114	Introduction to American History before 1877		
*HST 115	Introduction to American History since 1877		
*HST 292	History of the African-American People		
HST 301	History of American Cities		
HST 312	The Civil War and Reconstruction		
HST 319	History of the American South		
HST 322	Women in Modern America		
HST 323	Topics in African-American History		
HST 361	History of American Families (identical with WS 361)		
HST 362	History of African-American Women (identical with WS 362)		
HST 366	Slavery and Race Relations in the New World		
HST 367	History of Mexico		
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		
*PS 100	Introduction to American Politics		
PS 203	The Politics of Race and Ethnicity		
PS 300	American Political Culture		
PS 371	American Political Thought		
*SOC 100	Introduction to Sociology		
SOC 331	Racial and Ethnic Relations (identical with AN 331)		
School of Business Administration			
ECN 201	Principles of Microeconomics		

ECN 201	Principles of Microeconomics
ECN 338	Economics of Human Resources







MKT 404 Consumer Behavior

ORG 434 Management of Human Resources

School of Education and Human Services

EED 420 Interaction Laboratory for Teacher Development

HRD 367 Cultural Diversity in HRD

School of Health Sciences

HBS 200 Health Care Dimensions

School of Nursing

NRS 302 Nursing: Vulnerable Populations NRS 450 Nursing: Vulnerable Populations for RN

Additional undergraduate degrees and majors

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

For students who have not yet received any baccalaureate degree

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

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

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

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

For students already holding a baccalaureate degree

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

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

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

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

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





pg. 50-74 61 4/18/02, 2:32 PM



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.

Transfer Student Information

Transfer admission

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

Transfer students may enter Oakland University at the beginning of any semester or session and should contact the Office of Admissions (101 North Foundation Hall, 370-3360) regarding the application deadline date for the term when they wish to enter. Applicants who were admissible to Oakland University from high school and have maintained good academic standing and a minimum of a 2.50 cumulative GPA at their previous college or university may be considered for admission. Applicants who were not admissible based on their previous high school record must complete a minimum of 24 semester hours of transferable credit with a minimum of a 2.50 cumulative GPA before they may be considered for admission.

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

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

Students considering transferring to Oakland University may arrange to meet with an academic adviser who will assist them in course selection and in planning to meet program requirements. 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.





pg. 50-74 62 4/18/02, 2:32 PM



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. Students enrolling under terms of the MACRAO agreement must complete eight





pg. 50-74 63 4/18/02, 2:32 PM



additional credits of general education because courses in English composition that have been taken previously will be applied to Oakland University's writing proficiency requirement and not to general education requirements. Students must meet with an academic adviser to plan the additional general education courses. Under this 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

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 field category, but students must still present a total of 32 credits and all eight categories must be represented.

Arts and sciences distribution requirements for transfer students

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

College-level examination program (CLEP) credits

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

Grading System

- 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 nocredit 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 norecord 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.





pg. 50-74 64 4/18/02, 2:32 PM



- 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:

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.





pg. 50-74 65 4/18/02, 2:32 PM



- 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). Final grade reports are mailed to each enrolled student at the end of each academic period. Transcripts of academic records may be obtained by completing a transcript request form at the Academic Records Office or by writing to: Transcript Request, Office of the Registrar, Oakland University, Rochester, Michigan 48309-4401. Requests should include the name under which the student attended, the student's Oakland University student number, the date the student last attended, 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.





pg. 50-74 66 4/18/02, 2:32 PM



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.

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 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.





pg. 50-74 67 4/18/02, 2:32 PM



Academic conduct policy

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

- 1. Cheating on examinations. This includes using materials such as books and/or notes when not authorized by the instructor, copying from someone else's paper, helping someone else copy work, substituting another's work as one's own, theft of exam copies, or other forms of misconduct on exams.
- 2. Plagiarizing the work of others. Plagiarism is using someone else's work or ideas without giving that person credit; by doing this students are, in effect, claiming credit for someone else's thinking. Whether students have read or heard the information used, they must document the source of information. When dealing with written sources, a clear distinction should be made between quotations (which reproduce information from the source word-for-word within quotation marks) and paraphrases (which digest the source of information and produce it in the student's own words). Both direct quotations and paraphrases must be documented. Even if students rephrase, condense or select from another person's work, the ideas are still the other person's, and failure to give credit constitutes misrepresentation of the student's actual work and plagiarism of another's ideas. Buying a paper and handing it in as one's own work is plagiarism.
- 3. Cheating on lab reports by falsifying data or submitting data not based on the student's own work.
- 4. Falsifying records or providing misinformation regarding one's credentials.
- 5. Unauthorized collaboration on computer assignments and unauthorized access to and use of computer programs, including modifying computer files created by others and representing that work as one's own.

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

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

- 1. To inform and instruct students about the procedures and standards of research and documentation required to complete work in a particular course or in the context of a particular discipline.
- 2. To take practical steps to prevent and detect cheating.
- 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.





pg. 50-74 68 4/18/02, 2:32 PM



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.
- To be certain that special rules regarding documentation of term papers, examination procedures, use of computer-based information and programs, etc., are clearly understood.
- 4. To avoid the appearance of cheating.

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

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

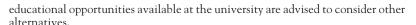
The Academic Probation and Dismissal Policy is administered by the director of the Academic Skills Center for the University Senate's Academic Standing and Honors Committee. The policy is based on the following principles and practices:

- 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
- Students are encouraged to make responsible decisions concerning their educational progress. Students who are apparently not benefiting sufficiently from the





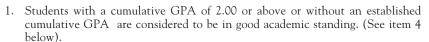
pg. 50-74 69 4/18/02, 2:32 PM



- 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.
- 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.



- 2. Students in good academic standing will be placed on probation at the end of a semester/session when their cumulative GPA is below 2.00. They will be allowed to remain at Oakland University on probationary status for at least one semester/session.
- 3. At the end of a probationary semester/session, students will be:
 - a. returned to good academic standing if their cumulative GPA is 2.00 or higher,
 - b. dismissed from the university if their cumulative GPA is below the minimum required GPA based on the total number of Oakland University and transfer credits earned (see the table below), or
 - c. continued on probation if a. and b. do not apply. For example, if at the end of a probationary semester/session, a student has accumulated 46 credits and has a cumulative GPA of 1.77, that student will be allowed to remain at Oakland University on probation.

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







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

The appeal process

Students dismissed after a probationary term may appeal the dismissal if they feel there are valid reasons to do so. To appeal, students must complete an official Dismissal Appeal Form and submit it to the Academic Standing and Honors Committee within 10 calendar days of the issuance of the dismissal notice. The forms are available in the Academic 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. Petitions of Forgiveness may be obtained from 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 Records Office (102 O'Dowd Hall) at least 45 days before the first day of regular registration of the semester or session they expect to re-enter and must pay the requisite readmission fee. (Failure to apply in this time frame will result in not being allowed to register.)





pg. 50-74 71 4/18/02, 2:32 PM



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 Records Office. 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 the 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





pg. 50-74 72 4/18/02, 2:32 PM



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:

- 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.
- 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.
- 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.





pg. 50-74 73 4/18/02, 2:32 PM



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 or race, sex, sexual orientation, age, height, weight, handicap, 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 the Office of University Diversity and Compliance, 105 North Foundation 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 or both the complainant and the individual accused.





pg. 50-74 74 4/18/02, 2:32 PM



UNIVERSITY LIBRARY

Dean: Elaine K. Didier Associate Dean: Julie Voelck

Office of the Dean: Brenda Pierce, Business Manager; Margo King, Development Officer Professor Emeriti: Indra M. David; Suzanne O. Frankie; George L. Gardiner; Janet A. Krompart

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

Assistant professors: William Cramer, Linda L. Hildebrand, Dana Juriew, Elizabeth Kraemer, Shawn Lombardo, Richard L. Pettengill, Ann M. Pogany, Daniel F. Ring

Managers: Eric Condic, Library Systems; Louann Stewart, Circulation & Reserves; 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 computer workstations to access an array of digital resources. The Library features seating for individual study, rooms for group work, meeting 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, two computer labs, and a multimedia lab.

Library Collections

The Kresge Library's collections include over 688,000 books, more than 17,000 audiovisual items, approximately 2,000 journal and newspaper subscriptions, over 215,000 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 Phone: (248) 370-2471

Send an e-mail message to a librarian: ref@oakland.edu

Reference assistance and research consultations

Librarians provide reference and research assistance in-person at the Reference Desk, by telephone, or by e-mail. Librarians also offer individualized and customized research





pg. 75-76 75 4/18/02, 2:33 PM



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.





pg. 75-76 76 4/18/02, 2:33 PM



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 the 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 the 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 the University Center, please consult Oakland University's undergraduate and graduate catalogs. Additional information about the Oakland University programs at the University Center or Oakland University services available to University Center students, please call the University Center office, (810) 263-6242, or the Oakland University Evening and Extension Program, 248-370-4010.

Oakland University offers evening undergraduate and graduate courses at various sites within southeast Michigan, including: Avondale School District, Rochester Hills and Seaholm High School, Birmingham.

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 legal assistant and to sit for the CFP® (Certified Financial Planner) Examination.

The Legal Assistant Certificate Program, approved by the American Bar Association, is an evening program that trains paraprofessionals to perform law-related duties for





pg. 77-79 77 4/18/02, 2:34 PM



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 continuing education program manager in the College of Arts and Sciences.

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 College of Arts and Sciences.

Conferences and seminars

Conferences on topical subjects are offered throughout the year. Included among the offerings are: the Writers' Conference, which has been conducted each October for more than 41 years, and conference, seminar and corporate training programs of the Center for Executive and Continuing Education.

Air Force 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 2002-2003 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. Or you can access the AFROTC Det 390 web site at www.umich.edu/~det390.





pg. 77-79 78 4/18/02, 2:34 PM



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 compete against Michigan State, Central Michigan, Eastern Michigan, Western Michigan, Michigan, Ohio, Toledo, Bowling Green, UD-Mercy, Boston College, Purdue, Florida, Dartmouth, Georgia and Air Force 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 two years of Mid-Con Competition, the Golden Grizzlies claimed 11 regular-season titles and one tournament championship. 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:

William A. Macauley, associate dean; Mary A. Papazian, associate dean; William W. Connellan, associate dean; Janice M. Baker, administrative assistant; Gloria J. Boddy, continuing education program manager; Janice S. Elvekrog, assistant dean; Thomas F. Kirchner, assistant dean; Emily Kolb, special project coordinator; Renee Ligeski, academic adviser; Julie M. Litchenberg, development officer; Cheryl A. Sullivan, advising coordinator; Tricia Westergaard, 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





pg. 80-87 80 4/18/02, 2:34 PM



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:

- 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 physical education will count toward a degree in the College of Arts and Sciences.
- 2. Complete the requirements for a major offered by the College of Arts and Sciences with a cumulative grade point average of at least 2.00.
- 3. Complete at least 32 of these credits at Oakland University, of which at least 16 credits must be in the student's elected major.
- 4. Complete at least 32 credits in courses at the 300 level or above.
- 5. Complete the last 8 credits at Oakland University.
- Earn a cumulative grade point average of at least 2.00 in courses taken at Oakland University and in the major(s) and any elective minor(s).
- 7. Complete the writing proficiency requirement (see *Undergraduate degree requirements*).
- 8. Complete the university's general education requirement (see *Undergraduate degree requirements*).
- Complete the university's ethnic diversity requirement (see Undergraduate degree requirements).
- 10. Complete the college distribution requirements described below.

College distribution requirements

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

Candidates for the Bachelor of Music degree must complete 4 credits in foreign language. None of these requirements may be met by independent study courses, internships, 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.





pg. 80-87 81 4/18/02, 2:34 PM



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.
- 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.)
- Mathematics: An additional 4 credits in mathematical sciences courses (MTH, APM, STA, MOR but not MTE) numbered 118 or higher.
- Science: An additional 4 credits in biology, chemistry, environmental health or physics.

Notes

- 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. 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.

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





pg. 80-87 82 4/18/02, 2:34 PM



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:

Environmental Health (B.S.)	Music (B.A. or B.Mus.)
History (B.A.)	Performing Arts (B.A.)
International Studies (B.A.)	Philosophy (B.A.)
Journalism (B.A.)	Physics (B.A. or B.S.)
Linguistics (B.A.)	Political Science (B.A.)
Mathematics (B.A. or B.S.)	Psychology (B.A.)
Medical Physics (B.S.)	Public Administration (B.S.)
Modern Languages	Sociology (B.A.)
and Literatures (B.A.)	Women's Studies (B.A.)
	History (B.A.) International Studies (B.A.) Journalism (B.A.) Linguistics (B.A.) Mathematics (B.A. or B.S.) Medical Physics (B.S.) Modern Languages

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's departmental listing. For information about other programs, consult with the center's interim director, William A. Macauley (248-370-2140).

Biochemistry program

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

Environmental Health program

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

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





pg. 80-87 83 4/18/02, 2:34 PM



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.

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. 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. 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.





pg. 80-87 84 4/18/02, 2:34 PM



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 *Other Academic Options* at the end of College of Arts and Sciences' Section).

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, Russian, Spanish), physics, political science and sociology. A secondary teaching minor in computer science is offered by the School of Engineering and Computer Science (see Department of Computer Science and Engineering).

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. 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; Michigan studies; preprofessional studies in medicine, dentistry, and optometry, and veterinary medicine; religious studies; social services; and urban





pg. 80-87 85 4/18/02, 2:34 PM



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 one of the departments participating in this program: art and art history; biological sciences; history; modern languages and literatures; psychology; rhetoric, communication and journalism; and sociology and anthropology.

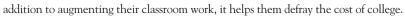
Cooperative education

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





pg. 80-87 86 4/18/02, 2:34 PM



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.







307 WILSON HALL

(248) 370-3375

Fax: (248) 370-4208

Chairperson: *Janice* G. *Schimmelman*

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 professor: Bonnie F. Abiko (Art History)

Assistant professor: Tamara Machmut-Jhashi (Art History)

Special instructors: Andrea Eis (Art History and Studio Art), Stephen Goody (Studio Art)

Lecturers: Lisa B. Ashby (Art History), Lynn M. Galbreath (Studio Art),

Keri Grayson (Studio Art), Sally S. Tardella (Studio Art), Louisa Ngote (Art History),

Paul Webster (Studio Art)

Chief adviser: Susan E. Wood

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

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, Michigan studies, religious studies, urban studies and women's studies.

The department offers a program of study leading to the Bachelor of Arts degree with a major in art history. This program is intended for students who wish directed study in art history and for students who are contemplating a career in one of the fields for which art history is a basis: aesthetics and criticism, archaeology, architecture, college teaching, special library collections, art publishing, fine arts, conservation, historic preservation, museum curatorship and urban design. A minor in art history is available. The department also offers a minor in studio art. This program provides basic principles and methods of drawing, painting, sculpture and photography. The studio art program complements the art history program and provides the tools for further study of the visual arts.

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

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

- 1. AH 100, 101 and 104
- 2. AH 300, which should be taken early in the student's major course work; normally no more than 20 credits in the art history major may be taken prior to this course.
- 3. 16 credits from the following (at least one course must be selected from each category):

Non-Western: Ancient/medieval:

AH 301, 304, 305, 308, 309 AH 310, 312, 314, 322, 326





pg. 88-94 4/18/02 2:36 PM



Renaissance/baroque: AH 330, 334, 340, 348

American/modern: AH 350, 352, 360, 361, 362, 363, 366, 367, 370

- 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.

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 3.60 or higher in the major, must submit a significant research paper after consultation with a full-time member of the art history faculty, and must have demonstrated citizenship within the department or field, as evidenced by such activities as active participation in La Pittura, success in a departmental field experience, serving as a docent at Meadow Brook Hall or as a volunteer at the Meadow Brook Art Gallery or participation in area arts organizations.

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).

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 Renaissance/baroque: AH 330, 334, 340, 348

American/modern: AH 350, 352, 360, 361, 362, 363, 366, 367, 370

3. Four elective credits from AH courses.

Requirements for the liberal arts minor in studio art

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

- 1. SA 206
- 2. 16 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 arts.





pg. 88-94 89 4/18/02, 2:36 PM



AH 101 Introduction to Western Art II (4)

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

AH 104 Introduction to 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 arts.

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

Practice in writing about art from various points of view, basic research and word processing techniques, and analytical reading of art history texts. AH 300 should be taken early in the student's major course work; normally no more than 20 credits in the art history major may be taken prior to this course. Prerequisite: RHT 160 or equivalent, and written permission of the instructor.

AH 301 Japanese Art (4)

The development of architecture, sculpture and painting in Japan from prehistoric to modern times. Prerequisite: AH 104 or IS 220.

AH 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. Satisfies the university ethnic diversity requirement. Identical with AN 308.

Prerequisite: 4 credits in art history.

AH 309 Pre-Colombian 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.





pg. 88-94 90 4/18/02, 2:36 PM



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)

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

Prerequisite: AH 101.

AH 348 English Art (4)

The development of architecture, sculpture and painting in Britain from the Renaissance through the 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. This course satisfies the university ethnic diversity requirement.

Prerequisite: AH 101.

AH 355 Michigan Architecture (4)

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

AH 360 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.





pg. 88-94 91 4/18/02, 2:36 PM



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 366 History of Photography (4)

The development of still photography as an art and its relationship to other visual arts since 1830. Prerequisite: AH 101 or SA 261.

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 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: 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 will include life studies from the nude: SA 206, 215, 241, 261, 306, 315, 341.

SA 106 Introduction to Drawing (4)

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

SA 115 Introduction to Painting (4)

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

Prerequisite: SA 106

SA 161 Introduction to Photography (4)

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

SA 206 Drawing I (4)

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

Prerequisite: SA 106

SA 215 Painting I (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 221 Watercolor I (4)

Introduction to basic design and color using watercolor on paper, transparent and opaque use of the medium.

Prerequisite: SA 206.

SA 232 Mixed Media I (4)

Introduction to mixed media, combination of different types of materials and methods in two-dimensional works.

Prerequisite: SA 206.

SA 241 Historic Painting Techniques I (4)

Experimentation with historic techniques, such as tempera on panel, fresco and oil glazes. Prerequisite: SA 206 or AH 101.

SA 261 Photography I (4)

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

Prerequisite: SA 161







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 261 or CIN 150.

SA 284 Sculpture I (4

Introduction to the methods used in creating three-dimensional structures, using clay and plaster. Prerequisite: SA 206.

SA 306 Drawing II (4)

Continuation of Drawing I, with emphasis on individual development.

Prerequisite: SA 206.

SA 315 Painting II (4)

Continuation of Painting I, with emphasis on individual development.

Prerequisite: SA 215.

SA 321 Watercolor II (4)

Continuation of Watercolor I, with emphasis on individual development.

Prerequisite: SA 221.

SA 332 Mixed Media II (4)

Continuation of Mixed Media I, with emphasis on individual development.

Prerequisite: SA 232.

SA 341 Historic Painting Techniques II (4)

Refining skills in one historic painting technique, either tempera on panel, fresco or oil glaze. Prerequisite: SA 241.

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SA 361 Photography II (4)

Continuation of Photography I, exploring black and white photographic techniques and alternative processes. Students are required to supply their own 35 mm SLR (single lens reflex) camera.

Prerequisite: SA 261.

SA 368 Video Art II (4)

Continuation of Video Art I, with emphasis on individual development and advanced editing. Prerequisite: SA 268.

SA 384 Sculpture II (4)

Continuation of Sculpture I, with emphasis on exploring new media and individual development. Prerequisite: SA 284.

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 minors 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: 16 credits in studio art, of which 8 must be at the 300 level, 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: John D. Cowlishaw

Professors emeriti: Frances M. Butterworth, William C. Forbes, Esther M. Goudsmit, Egbert W. Henry, Nalin J. Unakar

Professors: George J. Gamboa, R. Douglas Hunter, Charles B. Lindemann, Virinder K. Moudgil, Asish C. Nag, John R. Reddan

Associate professors: Keith A. Berven, G. Rasul Chaudhry, John D. Cowlishaw, Sheldon R. Gordon, Thaddeus A. Grudzien, Feona M. Hansen-Smith, Barkur S. Shastry, Satish K. Walia

Assistant professors: Arik Dvir, Anne L. Hitt, Shailesh K. Lal, Gabrielle Stryker, Douglas L. Wendell, Jill Zeilstra-Ryalls

Adjunct professors: Jeffrey L. Garvin, Tom Madhavan

Adjunct associate professor: Nalini Motwani

Special lecturers: Mary Ann Bednarski, Thomas G. Fishwild, Howard J. Spector

Lecturers: Phillip T. Clampitt, Sumit Dinda, Andrew F.X. Goldberg, Howard J. Normile, Mary Tracy, Tracy L. Wacker

Chief adviser: Thaddeus A. Grudzieu

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





pg. 95-105 95 4/18/02, 2:37 PM

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

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 and 158 or 167-168, 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.

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

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 or 167-168; 234-235 and 237)
- 5. 10 credits of physics (PHY 101-102 or 151-152, depending on MTH option, and PHY 158)





pg. 95-105 96 4/18/02, 2:37 PM



- 6. MTH 141 plus one of the following: MTH 154 and 155; or MTH 122 and either STA 225 or 226
- 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: Asish C. Nag

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

Requirements for a modified major in biology (B.S.) with a specialization in 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, 465 and 466. 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).

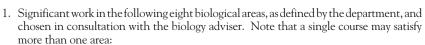
Secondary Teacher Education Program (STEP): Biological Sciences

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:





pg. 95-105 97 4/18/02, 2:37 PM



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, 313, 327 or 373 Ecology: BIO 301, 303, 375 or 387

Genetics: BIO 341

Microbiology: BIO 307, 319, 421 or 465

Evolution: BIO 113 or 387

- 2. A minimum of four biology laboratory courses
- 3. One course in earth science such as ENV 308, 373, PHY 106, 107
- One course in science, technology and society, such as AN 300; ENV 308, 312, 373; PHL 318.

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 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of Biological Sciences and the School of Education and Human Services advising office (141 O'Dowd 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 $_{\mbox{\scriptsize COUTCO}}$
- 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.





pg. 95-105 98 4/18/02, 2:37 PM



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). Note: transferred general biology courses that present introductory biology in one 3 or 4-credit course may not be used for the minor, despite transferring into OU as "equivalent to BIO 111". 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.

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.

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 natural science and technology.

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 natural science and technology.

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.

Biology and Society (4)

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





pg. 95-105 4/18/02 2:37 PM



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 natural science and technology.

BIO 113 Biology (4)

Introduction to the structure and function of plants and animals; nutrient acquisition, gas exchange, internal transport, excretion, chemical and nervous control, reproduction, behavior, ecology, evolution, and a synopsis of the major phyla. Offered fall and winter semesters. Satisfies the university general education requirement in natural science and technology.

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. Prerequisite: BIO 111.

BIO 300 Biology and Society (4)

See description above under nonmajor courses.

BIO 301 Ecology (5)

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

Prerequisite: BIO 111, 113, 116.

BIO 303 Field Biology (4)

An ecological and taxonomic study of the fauna of southeastern Michigan. Aims include competence in use of illustrated handbooks and keys, and skills in collecting, preserving and identifying. Offered spring and summer semesters.

Prerequisite: BIO 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 (2)

Microscopic examination and identification of vertebrate tissues and organs. Preparation of histological slides. To accompany BIO 305.





pg. 95-105 100 4/18/02, 2:37 PM



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, CHM 157.

BIO 310 Biology of the Cell Laboratory (1)

Laboratory experience in cellular biology.

Prerequisite: BIO 111, CHM 157.

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 313 Plant Morphology (5)

Structure, reproductive mechanisms and evolutionary relationships of the plant groups. Ultrastructure of cells and their walls. Preparation of plant materials for microscopic examination. Cytochemistry and histogenesis of selected specimens. Includes laboratory experience.

Prerequisite: BIO 111, 113, 116.

BIO 317 Vertebrate Zoology (5)

A comparative study: gross and histological anatomy, taxonomy, unique physiological adaptations to habitats, evolution and paleontology. Includes laboratory experience. Offered winter semester. Prerequisite: BIO 111, 113.

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 113; 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.





pg. 95-105 101 4/18/02, 2:37 PM



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.

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 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.





pg. 95-105 102 4/18/02, 2:37 PM



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 393 Endocrinology (4)

The interrelationship of various endocrine systems with vertebrate physiology; examination of control processes, the mechanism of hormone action, and the role of hormones in cancer, reproduction, differentiation, and growth.

Prerequisite: BIO 207 or 321.

BIO 399 Occupational Experience in Biology (4)

Occupational experience in biology with faculty supervision that incorporates student performance in an professional setting.

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

BIO 401 Advanced Human Physiology (4)

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

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 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 (3)

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 111, 113; BIO 309 recommended.

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 nuceic 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 mutliplication, and pathogenesis. Laboratory exercises to be included.

Prerequisite: BIO 309, 319, or 325.





pg. 95-105 103 4/18/02, 2:37 PM



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 (3)

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 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, adaptions of desert animals, allelopathy, energy cost of animal activities, and communication on an organismal level. Offered alternate fall 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 winter semesters.

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





pg. 95-105 104 4/18/02, 2:37 PM



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, predatorprey 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.

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.

Prerequisite: Written agreement with a biology faculty supervisor.





pg. 95-105 105 4/18/02, 2:37 PM



DEPARTMENT OF CHEMISTRY

260 SCIENCE AND ENGINEERING BUILDING

(248) 370-2320

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Chairperson: Michael D. Sevilla

Professors emeriti: Kenneth M. Harmon, Steven R. Miller, Robert L. Stern **Professors:** Gottfried Brieger, Maria Szczesniak Bryant, Arthur W. Bull,

Denis M. Callewaert, Dagmar Cronn, Isaac Eliezer, Kathleen Moore, Joel W. Russell,

Mark W. Severson, Michael D. Sevilla, R. Craig Taylor, Paul Tomboulian

Associate professor: Julien Gendell

Assistant professors: Amanda Bryant-Friedrich, Ferman Chavez, Roman Dembinski, John V. Seeley, Linda Schweitzer, Xianggun Zeng

Adjunct professors: David Becker, Grzegorz Chalasinski, Anna C. Ettinger, Jiri Kresta,

Gholam-Abbas Nazri, Fazlul Sarkar, Han Xiao

Adjunct associate professor: Ghassan Saed

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

Lecturers: R. Terry Begnoche, Raymond R. Heald, Robert R. Matheson, Robert MacDonald, Abul Molla, Thomas Ott, Hari Prasad, Seqwana Pryor, Mark Richardson, William Robert, Cole Shoemaker, Douglas Thiel, Jennifer Tillinger

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.





pg. 106-114 106 4/18/02, 2:38 PM



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 157-158	General Chemistry	10
(or 167-168)		
CHM 220	Introduction to Computational Chemistry	2
CHM 234-235	Organic Chemistry	8
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 course	es:	
MTH 154-155	Calculus	8
PHY 151-152	Introductory Physics	8
CSE 130 is a recor	nmended 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





pg. 106-114 107 4/18/02, 2:38 PM



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 full degree requirement for the Bachelor of Science degree with a major in chemistry are detailed below:

Core curriculum		
CHM 157-158	General Chemistry	10
(or 167-168)		
CHM 220	Introduction to Computational Chemistry	2
CHM 234-235	Organic Chemistry	8
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 ch (2 credits must l	emistry courses (400 or above) pe laboratories)	8
Corequisite courses	:	
MTH 154-155	Calculus	8
PHY 151-152	Introductory Physics	8
CSE 130 is a recom	mended 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 or geography, such as PHY 106, 107 or ENV 373
- 2. One course in science, technology and society, such as AN 300, ENV 308, 373 or PHL 318
- 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 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of Chemistry and the School of Education and Human Services Advising Office (141 O'Dowd 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 and 490. In addition, employment opportunities or fellowships are often available. Such research experience is of particular value to students preparing for graduate study or industrial employment.

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

Departmental honors

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

Advanced courses in chemistry

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"),





pg. 106-114 109 4/18/02, 2:38 PM



CHM 553 and 554 ("Advanced Biochemistry" and "Topics in Biochemistry"), and CHM 563 and 564 ("Advanced Inorganic Chemistry" and "Topics in Inorganic Chemistry"). See the Oakland University Graduate Catalog for course descriptions.

Biochemistry program

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

Requirements for the liberal arts minor in chemistry

Students in other departments or the Bachelor of General Studies program who wish to minor in chemistry must take CHM 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

Twenty credits in chemistry courses are required for the secondary teaching minor in chemistry. These must include CHM 157-158 (or 167-168), plus 10 credits of CHM courses numbered at the 200 level or above. Non-science majors must complete an additional 4 credits in science for a total of 24 credits. 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.





pg. 106-114 110 4/18/02, 2:38 PM



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 145, 158, 163 or 168. Credit will not be allowed in major and minor programs in chemistry, biology or physics for 090, 201 and 300.

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 natural sciences and technology.

Prerequisite: None

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 natural science and technology.

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 157-158 General Chemistry (5 each)

Integrated lecture-laboratory. States of matter, atomic structure, bonding and molecular structure, chemical reactions, kinetics, equilibrium, acid-base chemistry, thermodynamic and electrochemistry. [Formerly CHM 144 and 147; 145 and 148] 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 natural science and technology. Offered fall and winter.

Prerequisite: Score of 20 or higher on ACT mathematics exam; or MTH 012; or CHM 090. For CHM 158: CHM 144 and 147 or 157.

CHM 162-163 Honors General Chemistry for Engineers (4 each)

Intensive introduction to chemistry in a small-class setting including selected research areas in chemistry. These courses have common lectures with CHM 167-168 and are recommended for engineering majors with strong high school preparation in chemistry, physics and mathematics. CHM 162-163 does not satisfy the university general education requirement in natural science and technology.

Prerequisite: One year of high school chemistry and physics and placement in MTH 154 or higher or math ACT score of 25 or higher.





pg. 106-114 111 4/18/02, 2:38 PM



CHM 167-168 Honors General Chemistry (5 each)

Integrated lecture-laboratory. Intensive introduction to chemistry in a small-class setting including an investigation of selected areas of current research in chemistry. CHM 167 satisfies the university general education requirement in natural science and technology.

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 201 Introduction to Organic and Biological Chemistry (4)

Brief survey of organic and biological chemistry, emphasizing applications to human physiology. CHM 201 may not be used for major or minor credit in chemistry, biology or physics. Prerequisite: CHM 104.

CHM 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 234-235 Organic Chemistry (4 each)

Introduction to the structure, properties and reactivity of organic compounds. CHM 234 must be taken first. Prerequisite: CHM 158 or 168.

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. Does not count toward chemistry major or minor requirements.

Introduces non-science majors to the world of chemistry. 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 natural science and technology.

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.

4/18/02 2:38 PM

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.





pg. 106-114 113 4/18/02, 2:38 PM



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 Macromolecular Chemistry (3)

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

Prerequisite: CHM 235.

CHM 472 Physical Chemistry of Macromolecules (3)

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

Prerequisite: CHM 471 and 343 or 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)

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

Prerequisite: Permission of instructor.

CHM 497 Apprentice College Teaching (2)

Supervised participation in teaching an undergraduate course 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: Miron Stano

Professor emeritus: Eleftherios N. Botsas

Professors: Louis Esposito, Augustin K. Fosu, Oded Izraeli, Kevin J. Murphy, Anandi P. Sahu, Miron Stano

Associate professors: Addington Coppin, Sherman Folland, Lee R. Mobley, Nivedita Mukherji, Ronald L. Tracy

Assistant professor: Joann Bangs

Visiting assistant professor: David Kalist

Chief adviser: Miron Stano

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 business and economics, an education in economics is excellent preparation for entry into law school, a graduate school of public administration or management, or a Master of Business Administration (MBA) program. Economics is a flexible choice for students seeking a rigorous, well-respected and relevant major without specializing in a narrowly defined area.

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 allows a student to earn a degree in business while providing educational and career flexibility not offered by other business degrees. 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:





pg. 115-118 115 4/18/02, 2:38 PM



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	6
Required courses		
ECN 200	Principles of Macroeconomics	
and ECN 201	Principles of Microeconomics	
or ECN 210	Principles of Economics (combines ECN 200 and 201)	6-8
ECN 302	Intermediate Macroeconomics	3
ECN 303	Managerial Economics	3
FCN 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.
- 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.
- 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 338 (3); ECN 367 (3); ECN 378 (3); ECN 385 (3)

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 sciences.

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

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.





pg. 115-118 117 4/18/02, 2:38 PM

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 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 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

(248) 370-2250 Fax: (248) 370-4429

Chairperson: Brian A. Connery

Distinguished professor emerita: Gertrude M. White

Professors emeriti: Joseph W. DeMent, Thomas Fitzsimmons, Nigel Hampton, James F. Hoyle, David W. Mascitelli, Donald E. Morse, Joan G. Rosen, William Schwab

Professors: Jane D. Eberwein, Robert T. Eberwein, Edward Haworth Hoeppner, Brian F. Murphy

Associate professors: Natalie B. Cole, Brian A. Connery, Kevin T. Grimm, Susan E. Hawkins, Niels Herold, Bruce J. Mann, Jude V. Nixon, Mary A. Papazian

Assistant professors: Robert F. Anderson, Gladys Cardiff, Annette M. Gilson, Kathleen A. Pfeiffer, Christopher C. Warley

Special instructors: Linda McCloskey, Jimmy T. McClure, Rachel Smydra

Lecturers: Maureen Dunphy, Matthew D. Ferguson, Frances A. Kranz, Pamela T. Mitzelfeld, Stephen L. Rosenquist

Chief adviser: Susan E. Hawkins

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 "Advising Memo," available in preregistration periods in the department office. Faculty advisers provide specific guidance and help students develop comprehensive educational plans; students should consult their advisers regularly.

Listed below are undergraduate programs of study leading to the Bachelor of Arts degree with a major in English, a modified major in English with a linguistics concentration, a liberal arts minor in English and a secondary teaching minor in English. The department offers a program leading to the Master of Arts degree in English; the program and course offerings are described in the Oakland University Graduate Catalog.





pg. 119-126 119 4/18/02, 2:39 PM



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, 498 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.

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

Requirements for the modified major in English with a linguistics concentration

The modified English/linguistics major requires 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 498 and 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.





pg. 119-126 120 4/18/02, 2:39 PM



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
- 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. Four credits in advanced writing selected from ENG 380, 383, 384, 386
- 9. Four credits in a 400-level seminar (excluding Eng 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.

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, 501 and FE 602 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 (141 O'Dowd Hall, 248-370-4182).

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
- 3. ENG 224 American Literature
- 4. ENG 241 British Literature
- 5. A writing course selected from ENG 380, 383, 384, 386
- 6. ENG 398 Approaches to Teaching Literature and Composition





pg. 119-126 121 4/18/02, 2:39 PM



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. For students seeking an English elective or a course to satisfy the university general education requirement in literature.

ENG 105 Shakespeare (4)

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

ENG 111 Modern Literature (4)

A general introduction to modern literature. For students seeking an English elective or a course to satisfy the university general education requirement in literature.

ENG 112 Literature of Ethnic America (4)

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

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. For students seeking an English elective or a course to satisfy the university general education requirement in literature.

ENG 241 British Literature (4)

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

ENG 250 Film: A Literary Approach (4)

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

ENG 300 Special Topics in Literature and Language (4)

Special problems or topics selected by the instructor.

ENG 301 Poetry (4)

The major forms of poetic expression studied from generic and historical points of view.

ENG 302 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 literature.

Prerequisite: Junior standing.

ENG 304 Studies in Literary Mode (4)

A major literary mode (such as tragedy, comedy, epic, romance, satire) studied from generic and historical points of view.

ENG 305 The Bible as Literature (4)

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

Prerequisite: Junior standing.

ENG 306 Drama (4)

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

Prerequisite: Junior standing.

ENG 307 Modern Drama (4)

Studies in English, American and Continental drama since Ibsen.

ENG 308 Playwriting (4)

 $Creative\ writing\ for\ the\ theatre, emphasizing\ fundamentals\ of\ scene, character, and\ dialogue\ development.$ Identical with THA 340.

ENG 311 Chaucer (4)

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

ENG 312 Classical Mythology (4)

The principal Greek and Roman myths and their uses in classical and post-classical art and literature. Satisfies the university general education requirement in literature.

Prerequisite: Junior standing.

ENG 313 Myth in Literature (4)

Study of the mythic content and/or structure of literature.





pg. 119-126 123 4/18/02, 2:39 PM



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 turn of the century. The course may emphasize American or British in any given semester 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 ethnic diversity requirement.

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, Chesnutt, Du Bois, Ellison, Petry and Morrison.

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.





pg. 119-126 124 4/18/02, 2:39 PM



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 of the 20th Century (4)

British and anglophonic literature of the 20th century. 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, Bryon, 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 techniques of persuasion including analysis, argument and the study of rhetorical context.

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 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

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, Robert C. Howes, 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: De Witt S. Dykes, Jr., Todd A. Estes, James D. Graham, Roy A. Kotynek, Karen A. J. Miller, Seán Farrell Moran

Assistant professors: Sara E. Chapman, Daniel J. Clark, Don Matthews, Mark Metzler

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 24 credits numbered 300 or above including HST 300 and:
 - One course in American history
 - One course in European history
 - One course in African, Asian or Latin American history
- 3. One senior capstone course (HST 494, 495, 496 or 497) is required
- 4. No more than 12 credits in independent study (HST 391 and 491) may be counted toward the major.
- 5. At least 20 credits in history courses must be taken at Oakland.





pg. 127-136 127 4/18/02, 2:40 PM



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 24 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, 361, 362, 366 or 375
- e. Two of the following: IS 210, 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; SE 501 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of History and the School of Education and Human Services advising office (141 O'Dowd 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





pg. 127-136 128 4/18/02, 2:40 PM



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

HST 102 Introduction to European History since 1715 (4)

Surveys the history of Europe from the Enlightenment to the present. This course satisfies the university general education requirement in Western civilization.

HST 114 Introduction to American History before 1877 (4)

Surveys American history from colonial times through the Reconstruction era, focusing upon the formation of the United States and the forces promoting unity and division in the new nation. This course satisfies the university ethnic diversity requirement. It also satisfies the university general education requirement in Western civilization.

HST 115 Introduction to American History since 1877 (4)

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

HST 210 Science and Technology in Western Culture (4)

A survey of the development of science from antiquity to the present with reference to its technological consequences and influence upon society. This course satisfies the university general education requirement in Western civilization.





pg. 127-136 129 4/18/02, 2:40 PM



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. This course satisfies the university ethnic diversity requirement. It also satisfies the university general education requirement in Western civilization.

HST 300 Seminar in Historical Research (4)

The development of critical judgment regarding the nature and use of historical evidence: historiographical readings, library investigation into specific topics within a general historical subject, a research paper and a presentation of the paper to the seminar.

Prerequisite: One history course, 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 ethnic diversity requirement.

HST 302 American Labor History (4)

The economic, social and political history of the American work force with emphasis on the history of organized labor.

HST 304 History of the American Industrial Economy and Society (4)

The development of the American industrial system and its impact on business organization, labor, government and the international economy.

HST 305 History of American Mass Media (4)

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

HST 306 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.





pg. 127-136 130 4/18/02, 2:40 PM



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 ethnic diversity requirement.

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 ethnic diversity requirement.

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. This course satisfies the university ethnic diversity requirement.

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

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

HST 321 History of American Foreign Relations in the Twentieth Century (4)

American foreign policy and diplomacy from the Spanish-American War to the present, including American imperialism, Caribbean and Far Eastern policies, involvement in the world wars and the Cold War, and nuclear diplomacy.

HST 322 Women in Modern America (4)

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

HST 323 Topics in African-American History (4)

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

HST 324 Ancient Greece and Rome (4)

An overview of the various intellectual, political and cultural legacies of ancient Greece and Rome, ranging in aspect from Homeric warfare, the mysteries of Dionysus and Delphi, Platonic and Aristotelian inquiry, Hellenic artistic ideals and Athenian democracy, to Roman legalism and jurisprudence, ideologies of imperial political control and Christianity. Prerequisite: HST 101 or equivalent.

HST 325 Medieval Europe 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.





pg. 127-136 131 4/18/02, 2:40 PM



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.





pg. 127-136 132 4/18/02, 2:40 PM



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 regime in France from the end of the wars of religion to the beginning of the Revolution (1589-1789).

HST 350 The European Mind to 1700 (4)

Major developments in European thought from the God-oriented world views of the Middle Ages to the development of scientific concepts in the 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 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 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. Satisfies the university ethnic diversity requirement. Identical with WS 361.

HST 362 History of African-American Women (4)

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

HST 363 History of Southern South America (4)

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





pg. 127-136 133 4/18/02, 2:40 PM



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 ethnic diversity requirement.

HST 367 History of Mexico (4)

The scope and achievements of pre-Colombian 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 ethnic diversity requirement.

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 381 History of India (4)

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





pg. 127-136 134 4/18/02, 2:40 PM



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 384 Global Environmental History (4)

Examines the way humans have shaped, used, and misused the environment. Topics range from the Neolithic Revolution to the Industrial Revolution and the rise of conservationism and ecology. Identical with ENV 384.

HST 385 Ancient Egypt and Africa (4)

A cultural history of ancient Åfrican 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: 24 credits in history, of which at least 8 must be at the 300-400 level.





pg. 127-136 135 4/18/02, 2:40 PM



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

430 WILSON HALL

(248) 370-2154

Fax: (248) 370-4208

Interim Director: William Macauley (Associate Dean)

International Studies Executive Committee: Bonnie F. Abiko (Art and History), Peter J. Bertocci (Sociology and Anthropology), Carlo Coppola (Modern Languages and Literatures), Vincent B. Khapoya (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.

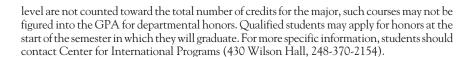
Departmental honors

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





pg. 137-142 137 4/18/02, 2:40 PM



Requirements for the liberal arts minors in international studies

Minors in international studies consist of a minimum of 20 credits in a single world of study distributed as follows: appropriate introductory course, appropriate special topics course, appropriate seminar and 8 additional credits chosen from the appropriate program offerings.

African and African-American studies, B.A. program

Coordinator: Vincent B. Khapoya (Political Science)

Faculty: De Witt S. Dykes, Jr. (History), James D. Graham (History), 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), Sheldon L. Appleton (Political Science), Linda Benson (History), Mark Metzler (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, 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; IS 383, 386; 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), John Paul Spicer-Escalante (Spanish)

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: Bonnie Abiko, Department of Art and Art History, 321 Wilson Hall, (248) 370-3382 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: Bonnie Abiko, Department of Art and Art History, 321 Wilson Hall, Oakland University, (248) 370-3382.





pg. 137-142 139 4/18/02, 2:40 PM



Vienna Study Abroad Program. One-semester and two-semester program. No language proficiency required. Courses taught in English. Housing with Viennese family. Interim coordinator: William Macauley, Center for International Programs, 430 Wilson Hall, (248) 370-2154.

Macerata, Italy, Study Abroad Program. One-semester and two-semester program. No language proficiency required. Courses taught in English. Housing with Italian family. Interim coordinator: William Macauley, Center for International Programs, 430 Wilson Hall, (248) 370-2154.

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. Interim coordinator: William Macauley, Center for International Programs, 430 Wilson Hall, (248) 370-2154.

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: Professors Barbara Mabee and Christopher Clason, Department of Modern Languages and Literatures, 418 Wilson, (248) 370-2099 or messages at 370-2060. Offered in the Department of Modern Languages and Literatures.

British Studies at Corpus Christi College, Oxford University, Oxford, England. Two three-week summer sessions. No language proficiency required. Courses taught in English. Housing in college's private rooms. Coordinator: Margaret B. Pigott, Department of Rhetoric, Communication and Journalism, 322 Wilson Hall, (248) 370-4131 or messages at 370-2154.

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

Course Offerings

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

IS 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. 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 international studies. Identical with GEO 210.

IS 220 Introduction to Japan (4)

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

IS 230 Introduction to Africa (4)

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









Introduction to India (4)

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

Introduction to Latin America (4)

An interdisciplinary study of the peoples of Latin America and their traditional and modern civilizations. Satisfies the university general education requirement in international studies. Identical with GEO 250.

Introduction to Russia and Eastern Europe (4)

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

Introduction to the Middle East (4)

An interdisciplinary study of the peoples of the Middle East and their traditional and modern civilizations. Satisfies the university general education requirement in international studies. Identical with GEO 270.

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.

Japan Exchange Program II (16-18 each) IS 363-364

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.

Japan Program: Shiga I (4-18 each) IS 365-366

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.

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

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.

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.

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.

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 professor: Michael B. Smith

Assistant professors: Madelyn J. Kissock, Samuel Rosenthall

Associated faculty: Professors Carlo Coppola (Modern Languages and Literatures, Linguistics), Alice S. Horning (Rhetoric, Communication and Journalism; Linguistics)

Special Instructor: Kathleen A. Malin

Chief adviser: Madelyn J. Kissock

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:

- 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





pg. 143-150 143 4/18/02, 2:41 PM



- At least 12 additional credits from LIN or ALS courses or from ENG 215, 376; MTH 302, 415, 475; FRH 215, 312, 314; RUS 314; SPN 313, 314; PHL 107, 329, 333, 370, 437; PSY 316, or CSE 416.
- 3. Either (a) two years of foreign language study, or (b) one year of foreign language study and LIN 410. 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.

Requirements for the modified major in linguistics with a minor in computer science, B.A. program

To earn the minor, students must complete:

- A minimum of 24 credits in linguistics courses to include LIN 201, 303, 304, and either 403 or 404.
- A minimum of 20 credits in CSE courses as follows: 8 credits from CSE 125, and 130 or 141; 12 credits from CSE 220, CSE courses numbered 232 through 245, CSE 340 and 345. See requirements for the minor in computing in the School of Engineering and Computer Science section of this catalog.
- 3. PHL 370.

Departmental honors

The Department of Linguistics offers departmental honors to students who achieve a grade point average of 3.60 or above in specified courses. In the case of the liberal arts major, the courses include the 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

A minimum of 20 credits in linguistics courses, 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.

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 401 (communication), ENG 376 (English), LIN 307 or 407 (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 credits: LIN 201, ALS 418 and ALS 419 or the equivalents. In any case a student must complete 12 credits in linguistics courses at OU to obtain the certificate. Students interested in this certificate should contact an adviser in the Department of Linguistics.





pg. 143-150 144 4/18/02, 2:41 PM



Course Offerings

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

APPLIED LANGUAGE STUDIES

ALS 102 Studies in Vocabulary and Etymology (4)

A basic course in vocabulary building. The origin of scientific and literary terms, foreign phrases in current use, borrowing of words into English from other languages, and the relationship between meaning and culture and meaning and context. Course not applicable to LIN programs.

ALS 176 The Humanity of Language (4)

An introduction to the interrelationships of language and other cultural subsystems. Linguistic knowledge, the child's acquisition of language, sound and writing systems, meaning and communication, language and social groups are among the topics discussed. Satisfies the university general education requirement in language.

ALS 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.

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. Satisfies the university ethnic diversity requirement. Identical with AN 374.

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. Satisfies the university ethnic diversity requirement. 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.





pg. 143-150 145 4/18/02, 2:41 PM



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)

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

Prerequisite: LIN 201 and either ALS 418/518 or 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)

An introduction to formal linguistic theory and analysis through the study of linguistic data and development of the formal rules of language. Problems in language analysis will provide the basis for discussions of the rules of phonology, syntax and meaning. Satisfies the university general education requirement in mathematics, logic and computer science.

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 language.

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 natural science and technology.

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 language.

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.





pg. 143-150 146 4/18/02, 2:41 PM



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. Exploration of the sound system of English and its historical development.

Prerequisite: LIN 201.

LIN 304 Introduction to Syntax (4)

Fundamentals of syntactic analysis using data from English and other languages. Prerequisite: LIN 201.

LIN 307 Introduction to Semantics (4)

An introduction to the study of meaning and how it is encoded in human language. Survey of classic and recent approaches to the analysis and description of semantic structures in natural 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. Identical with CSE 315. Prerequisite: LIN 201 and CSE 130 or 131.

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 instructor's permission.

LIN 376 History of the English Language (4)

Identical with ENG 376.

Prerequisite: RHT 160.

LIN 401 Phonetic Theory (4)

An introduction to articulatory and acoustic descriptions of spoken language, and training in the recognition and production of sounds found in languages other than English. Prerequisite: LIN 201.

LIN 403 Phonological Theory (4)

A presentation of theory and application of phonological analysis with emphasis on original work. Prerequisite: LIN 303.

LIN 404 Syntactic Theory (4)

A presentation of theory and application of morphological and syntactic analysis, with emphasis on original work.

Prerequisite: LIN 304.

LIN 407 Semantic Theory (4)

An inquiry into contemporary efforts to formulate and articulate a theory of meaning adequate for the analysis of natural language, with emphasis on the relation between syntactic and semantic analysis. Prerequisite: LIN 307.

LIN 410 Studies in the Structure of a Language (4)

A study of the structural aspects of an individual language to be determined by the instructor. Among the languages for study are French, German, Hindi-Urdu and Sanskrit.

Prerequisite: LIN 201.

LIN 475 Philosophy of Language (4)

Identical with PHL 475.







LIN 480 Seminar in Linguistics (4)

Topics and problems selected by the instructor.

Prerequisite: LIN 201 and permission of the Department of Linguistics.

LIN 490 Independent Study (2 or 4)

Special research projects in linguistics.

Prerequisite: LIN 201 and permission of the Department of Linguistics.

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 satisfy the university general education requirement in language.

ENGLISH AS A SECOND LANGUAGE

The Center for American English 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 Center for American English for placement in appropriate classes.

Course Offerings

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





pg. 143-150 148 4/18/02, 2:41 PM



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.





pg. 143-150 149 4/18/02, 2:41 PM



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

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Professors: Kevin T. Andrews, Baruch Cahlon, Charles C. Cheng, J. Curtis Chipman, Jerrold W. Grossman, Ravindra Khattree, Devadatta Kulkarni, Marc J. Lipman, 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, Robert H. Kushler, Theophilus Ogunyemi, Guohua (James) Pan, Hyungju (Alan) Park, Ananda Sen, Peter Shi

Assistant professors: Bo-nan Jiang, Anna Spagnuolo, Serge Kruk, Wen Zhang

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

Associated faculty: Babette Benken (Curriculum, Instruction and Leadership)

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.





pg. 151-160 151 4/18/02, 2:42 PM



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 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.





pg. 151-160 152 4/18/02, 2:42 PM



- 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; SE 501 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of Mathematics and Statistics and the School of Education and Human Services advising office (141 O'Dowd Hall, 248-370-4182).





pg. 151-160 153 4/18/02, 2:42 PM



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 428. 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.





pg. 151-160 154 4/18/02, 2:42 PM



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 mathematics, logic and computer science. Formerly MTH 185.

MTH 121 Linear Programming, Elementary Functions (4)

Systems of equations, matrices, and linear programming (simplex method); rational, exponential and logarithmic functions. Satisfies the university general education requirement in mathematics, logic and computer science.

Prerequisite: MTH 012 or placement.

MTH 122 Calculus for the Social Sciences (4)

The basic concepts, theorems and applications to the social sciences of the differential and integral calculus of one and several variables. Satisfies the university general education requirement in mathematics, logic and computer science.

Prerequisite: MTH 121 or 141 or placement.

MTH 141 Precalculus (4)

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

Prerequisite: MTH 012 or placement.

MTH 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





pg. 151-160 155 4/18/02, 2:42 PM



MTH 154-155 Calculus (4 each)

A comprehensive study of analytic geometry, limits, differentiation and integration of functions of one real variable, including transcendental functions, infinite series, indeterminate forms, polar coordinates, numerical methods and applications. Each is offered fall and winter semester. MTH 154 satisfies the university general education requirement in mathematics, logic and computer science. Prerequisite: MTH 141 or placement.

MTH 254 Multivariable Calculus (4)

A study of vectors, polar coordinates, three-dimensional geometry, differential calculus of functions of several variables, exact differential equations, multiple integrals, line and surface integrals, and vector fields.

Prerequisite: MTH 155.

MTH 256 Introduction to Linear Algebra (3)

An introduction to the theoretical and computational aspects of linear algebra. Topics covered include linear equations, vectors and matrices, matrix algebra, determinants, eigenvalues and eigenvectors, linear transformations, vector spaces and inner product spaces.

Prerequisite: MTH 155.

MTH 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 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. *Replaces APM 331*. Offered every fall.

Prerequisite: MTH 254 and 302 or permission of department.

MTH 352 Complex Variables (4)

A study of analytic functions of a complex variable including differentiation and integration, series representations, the theory of residues and applications. Prerequisite: MTH 254.

MTH 361 Geometric Structures (4)

A study of topics from Euclidean geometry, projective geometry, non-Euclidean geometry and transformation geometry. Offered every fall.

Corequisite: MTH 302 or permission of department.

MTH 372 Number Theory (4)

Number-theoretic functions, diophantine equations, congruences and quadratic residues. Prerequisite: MTH 155.

MTH 405 Special Topics (2 or 4)

Advanced study of 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.





pg. 151-160 156 4/18/02, 2:42 PM



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.



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 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.





pg. 151-160 157 4/18/02, 2:42 PM



APM 407 Mathematics for Engineering (4)

Elementary ordinary differential equations, linear algebra, matrix operations and numerical methods. Closed to math majors and minors. Prerequisite: MTH 155.

APM 433 Numerical Methods (4)

Propagation of errors, approximation and interpolation, numerical integration, methods for the solution of equations, Runge-Kutta and predictor-corrector methods. Credit will not be granted for both APM 433 and CSE 417. Offered fall of even-numbered years.

Prerequisite: MTH 256, APM 257 and knowledge of a scientific programming language, or permission of the instructor.

APM 434 Applied Numerical Methods: Matrix Methods (4)

Systems of linear equations, Gaussian elimination, LU factorization, approximation and curve fitting, eigenvalue problems, and nonlinear systems. Credit will not be granted for both APM 434 and CSE 418. Offered winter of odd-numbered years.

Prerequisite: MTH 254, 256 and knowledge of a scientific programming language, or permission of the instructor.

APM 455 Intermediate Ordinary Differential Equations (4)

Review of elementary techniques, existence and uniqueness theory, series methods, systems of equations, oscillation and comparison theorems, Sturm-Liouville theory, stability theory and applications. Prerequisite: APM 257 and MTH 351.

APM 463 Graph Theory and Combinatorial Mathematics (4)

Introduction to combinatorics. Topics include techniques of enumeration, fundamental concepts of graph theory, applications to transport networks, matching theory and block design. Offered every fall. Prerequisite: MTH 256 and APM 263.

APM 477 Computer Algebra (4)

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

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

APM 490 Independent Study (2 or 4)

Reading or research on some topic in applied mathematics. May be repeated for additional credit. Prerequisite: Permission of department.

STATISTICS

STA 225 Introduction to Statistical Concepts and Reasoning (4)

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

Prerequisite: MTH 012 or placement.

STA 226 Applied Statistics (4)

Introduction to statistics as applied to the physical, biological and social sciences and to engineering. Applications of special distributions and nonparametric techniques. Regression analysis and analysis of variance. Satisfies the university general education requirement in mathematics, logic and computer science. Corequisite: MTH 122 or 154.

STA 322 Regression Analysis (4)

Basic results from probability and statistics, linear regression, model testing and transformations, matrix methods in multiple regression, polynomial regression, indicator variables, stepwise and other search procedures. Offered every fall.

Prerequisite: STA 226 or permission of instructor.





pg. 151-160 158 4/18/02, 2:42 PM



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.









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

(248) 370-2060 Fax: (248) 370-4208

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), Helen Kovach-Tarakanov (Russian), Munibur Rahman (Hindi-Urdu), Robert E. Simmons (German), Amitendranath Tagore (Chinese), Carmen Urla (Spanish)

Professors: Carlo Coppola (Hindi-Urdu), David Jaymes (French), Barbara Mabee (German)

Associate professors: Nicole Buffard-O'Shea (French), Christopher Clason (German), Stacey L. Hahn (French), Frances Meuser (Spanish), Estela Moreno-Mazzoli (Spanish), Seigo Nakao (Japanese), Ronald F. Rapin (Spanish)

Assistant professors: Ingrid Rieger (German), John Paul Spicer-Escalante (Spanish), Maria Spicer-Escalante (Spanish)

Special Instructors: Dikka Berven (French), Julie Urla (Spanish)

Chief adviser: Nicole Buffard-O'Shea

The Department of Modern Languages and Literatures offers programs leading to the Bachelor of Arts degree. The aim of the modern language curriculum is to help students acquire competence in the language of a given country or countries and, through the study of literature and civilization, to acquaint them with the cultural background of the country or countries. It also prepares students for graduate work, teaching and careers in business or government service. The department houses a new interactive video, audio and computer language-technology facility, in which students have access to a broad variety of tutorials, exercises and multimedia activities supporting their classroom learning experiences.

Students may wish to investigate the advantages of combining a knowledge of foreign languages and cultures with competence in other fields. Majors such as political science, English, linguistics, art and music are enriched by the knowledge of a foreign language and culture. Students interested in study or work abroad, graduate study or non-academic careers should get help from special advisers in the department familiar with the possibilities in these areas.

The selection of a foreign language should be a reasoned one. It is usually best to continue with a language begun in high school. However, students who wish to learn a language not widely taught at the secondary level should not hesitate to change to a new language. Those who need advice about these choices should consult with a department faculty member.

All majors must participate in departmental assessment activities.









Placement examinations

A modern language placement test is administered by the Office of New Student Programs. Students who enter Oakland University with high school work in French, German, Japanese, Russian 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 or 451; 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.

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, Russian and Spanish, courses numbered 314, 316, 318, 355, 408 and 455 are required. German must include courses numbered 301, 316, 318, 355, 408 and 455.

Three collateral courses are required: LIN 301 and two courses in history or civilization, one in each language area, to be approved by the student's department adviser. LIT 181 and LIT 182 are recommended. Students are strongly advised to complete a minor in a complementary field. Most traditional graduate programs in language and literature will require students in this major to fulfill additional prerequisites in literature.

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

Students must complete a minimum of 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.





pg. 161-176 162 4/18/02, 2:42 PM



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, Russian 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; SE 501 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of Modern Languages and Literatures and the School of Education and Human Services advising office (141 O'Dowd 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, Russian and Spanish with majors or minors in economics, general business, international management, engineering, computer science or computing. (Students with majors or minors in one of the other professional schools may petition the department for a modified major.) The requirement in French, Russian 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.)

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, 370 and 408 and 20 credits in Latin American studies courses, including IS 250.

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

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

Departmental honors and scholarships

At the discretion of the department, departmental honors in a foreign language may be awarded to graduating seniors who complete a writing project, usually either a critical paper or a translation, of high quality and who maintain a grade point average in major courses of at least 3.60. Students who wish to be nominated for honors should consult a departmental adviser one year before graduation.





pg. 161-176 163 4/18/02, 2:42 PM



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.

Translation program

Students may qualify for a translation certificate by completing language courses numbered 355, 455 and 491, and may then become candidates for the American Translators Association Accreditation Test. A 491 course does not apply toward the major.

Requirements for the liberal arts minor in a modern language and literature

A student planning a minor in the department must apply in the department office, 418 Wilson Hall, after consultation with an adviser. Minors are available in French, German, Russian or Spanish language and literature. The requirement is a minimum of 20 credits beyond the 115 level, including 370 and 380 in French, Russian and Spanish; and 371 and 381 in German.

Requirements for the liberal arts minor in a modern language

Minors are available in French, German, Russian or Spanish language. The requirement is a minimum of 20 credits beyond 114-115. French, Russian and Spanish must include courses numbered 314, 316, 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.

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 440. LIT 181 or 182 is also required.

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 plus IS 220, a corequisite course.

Concentration in French studies

Coordinator: Nicole Buffard-O'Shea

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, Russian and Spanish and 301, 316, 318 and 371 in German. 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.





pg. 161-176 164 4/18/02, 2:42 PM



Requirements for an elementary teaching major in a modern language

For students who wish to teach a foreign language at the elementary or junior high school level, the requirements are a minimum of 36 credits with at least 20 credits at the 300-400 level. For complete details on other requirements, including courses in education, consult the Department of Curriculum, Instruction and Leadership 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. For complete details on other requirements, including courses in education, consult the *Department of Curriculum*, *Instruction and Leadership* 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.

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 Germany Munich Program with Wayne State University. Students majoring in Spanish wishing to participate in the Junior Year or summer session in Valencia should see Professor Rapin. Students majoring in French may participate in the exchange program with the University of Orléans in France. 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.

Course Offerings

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

CHINESE LANGUAGE

CHE 114-115 Introduction to Chinese and Chinese Culture (4 each)

A two-semester sequence in the fundamentals of modern Mandarin Chinese (kuo-yu) and Chinese culture. A beginning course. CHE 114 must be taken first. CHE 114 or 115 satisfies the university general education requirement in language.

CHE 214-215 Second Year Chinese (4 each)

A two-semester sequence continuing the work of CHE 114-115, with the addition of cultural and literary readings. CHE 214 must be taken first.

Prerequisite: One year of college Chinese or equivalent.





pg. 161-176 165 4/18/02, 2:42 PM



FRENCH LANGUAGE AND LITERATURE

FRH 114-115 Introduction to French and French Culture (4 each)

A two-semester sequence in the fundamentals of French and French culture. A beginning course. FRH 114 must be taken first. FRH 114 or 115 satisfies the university general education requirement in language.

FRH 214 Second Year French (4)

Continuation of the work started in FRH 114-115.

Prerequisite: One year of college French or equivalent.

FRH 215 Intermediate French Grammar (4)

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

Prerequisite: FRH 214.

FRH 216 Basic French Conversation (2)

Designed to develop the student's ability to organize and express ideas in French with a minimum of inhibition.

Prerequisite: FRH 115.

FRH 290 Directed Readings in French (2 or 4)

A reading course for nonmajors in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor.

Prerequisite: FRH 215.

FRH 312 French Phonetics and Listening Comprehension (2)

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

Prerequisite: FRH 215.

FRH 314 Advanced French Grammar (4)

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

Prerequisite: FRH 215.

FRH 316 Intermediate French Conversation (2)

Practice in speaking at intermediate level. Format may include oral presentations and phonetics. Offered winter semester.

Prerequisite: FRH 215.

FRH 318 French Composition (2)

 $Practice \ in \ written \ composition. \ Techniques \ of \ textual \ analysis \ and \ exposition \ are \ introduced. \ Offered \ fall \ semester.$

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.





pg. 161-176 166 4/18/02, 2:42 PM



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 451 Modern French Identity (4)

An examination of the origins and development of the twentieth century French identity. Readings address cultural issues from the period just prior to the French Revolution to the present day. Conducted in French. Offered in alternate years. This course does not replace a literature requirement. Prerequisite: FRH 370 and 380.

FRH 455 Translation into French (4)

Translation from English into French of a wide variety of materials that may range from commercial and technical to literary. Offered fall semester in alternate years. Prerequisite: FRH 314, 316, 318 and 355.

FRH 480 Undergraduate Seminar (2 or 4)

Study of individual authors, selected themes or critical problems. Conducted in French. Prerequisite: FRH 314, 370 and 380.

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

Directed individual research and reading for advanced French majors. May be repeated for a total of 8 credits.

Prerequisite: Two 400-level French literature courses and permission of department.







FRH 491 Independent Translation Project (4, 6 or 8)

Directed annotated translation from French into English of a major work in the student's field. May not be counted toward the major.

Prerequisite: FRH 355 and 455 and permission of department.

GERMAN LANGUAGE AND LITERATURE

GRM 114-115 Introduction to German and German Culture (4 each)

A two-semester sequence in the fundamentals of German and German culture. A beginning course. GRM 114 must be taken first. GRM 114 or 115 satisfies the university general education requirement in language.

GRM 214-215 Second Year German (4 each)

A two-semester sequence continuing the work of GRM 114-115, with the addition of cultural and literary readings. GRM 214 must be taken first.

Prerequisite: One year of college German or equivalent.

GRM 290 Directed Readings in German (2 or 4)

A reading course for nonmajors interested in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor. Prerequisite: GRM 215.

GRM 301 Intermediate German (4)

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

Prerequisite: GRM 215 or equivalent.

GRM 316 Intermediate German Conversation (2)

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

A sampling of critical approaches to the study of 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 392 Germany Exchange Program: Language I (4)

Course is taught at the University of Oldenburg in Germany and includes the study of German grammar. German is the language of instruction.

Prerequisite: Permission of program coordinator.

GRM 393 Germany Exchange Program: Literature I (4)

Course is taught at the University of Oldenburg in Germany and includes the study of German literature. German is the language of instruction.

Prerequisite: Permission of program coordinator.

GRM 394 Germany Exchange Program: Conversation, Comprehension, Writing I (4)

Course is taught at the University of Oldenburg in Germany and includes German conversation, comprehension and writing. German is the language of instruction.

Prerequisite: Permission of program coordinator.

GRM 395 Germany Exchange Program: German Culture I (4)

Course is taught at the University of Oldenburg in Germany and includes German history, geography and contemporary civilization. German is 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.

Trerequisite. ORWI 571 and 561.

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.





pg. 161-176 169 4/18/02, 2:42 PM



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.

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.

Germany Exchange Program: German Language II (4)

Course is taught at the University of Oldenburg in Germany and includes the study of German grammar. German is the language of instruction.

Prerequisite: Permission of program coordinator.

Germany Exchange Program: Literature II (4)

Course is taught at the University of Oldenburg in Germany and includes the study of German literature. German is the language of instruction.

Prerequisite: Permission of program coordinator.

Germany Exchange Program: Conversation, Comprehension, Writing II (4)

Course is taught at the University of Oldenburg in Germany and includes the study of German conversation, comprehension and writing. German is the language of instruction.

Prerequisite: Permission of program coordinator.

Germany Exchange Program: German Culture II (4)

Course is taught at the University of Öldenburg in Germany and includes the study of German history, geography and contemporary civilization. German is the language of instruction.

Prerequisite: Permission of program coordinator.

HINDI-URDU LANGUAGE

Introduction to Hindi and Urdu Languages and Cultures (4 each) HIU 114-115

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

ITALIAN LANGUAGE AND LITERATURE

Introduction to Italian and Italian Culture (4 each)

A two-semester sequence of the fundamentals of Italian and Italian culture. A beginning course. IT 114 must be taken first. IT 114 or 115 satisfies the university general education requirement in language.

IT 214-215 Second Year Italian (4 each)

A two-semester sequence continuing the work of IT 114-115 with the addition of cultural and literary readings. IT 214 must be taken first.

Prerequisite: One year of college Italian or equivalent.

Directed Readings in Italian (2 or 4)

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

Prerequisite: Permission of instructor.









JAPANESE LANGUAGE AND LITERATURE

JPN 114-115 Introduction to Japanese and Japanese Culture (4 each)

A two-semester sequence in the fundamentals of Japanese and Japanese culture. A beginning course. JPN 114 must be taken first. JPN 114 or 115 satisfies the university general education requirement in language.

JPN 214-215 Second Year Japanese (4 each)

A two-semester sequence continuing the work of JPN 114-115, with the addition of cultural and literary readings. JPN 214 must be taken first.

Prerequisite: One year of college Japanese or equivalent.

JPN 316 Intermediate Japanese Conversation (2)

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

Prerequisite: JPN 215.

JPN 318 Japanese Composition (2)

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

Prerequisite: JPN 215.

JPN 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, with emphasis on idiomatic English.

Prerequisite: JPN 316 and 318.

JPN 390 Directed Readings in Japanese (2 or 4)

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

Prerequisite: Permission of instructor.

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 language.

RUS 214-215 Second Year Russian (4 each)

A two-semester sequence continuing the work of RUS 114-115, with the addition of cultural and literary readings. RUS 214 must be taken first.

Prerequisite: One year of college Russian or equivalent.

RUS 290 Directed Readings in Russian (2 or 4)

A reading course for nonmajors interested in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor. Prerequisite: RUS 215.

RUS 314 Grammar Review Through Translation (4)

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

Prerequisite: RUS 215.





pg. 161-176 171 4/18/02, 2:42 PM



RUS 316 Intermediate Russian Conversation (2)

Provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language. Should be taken concurrently with RUS 318. Prerequisite: RUS 215.

RUS 318 Russian Composition (2)

Practice in written composition. Techniques of textual analysis and exposition are introduced. Should be taken concurrently with RUS 316. Prerequisite: RUS 215.

RUS 355 Translation: Russian (2)

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

Prerequisite: RUS 314.

RUS 370 Introduction to Russian Literature (4)
A sampling of critical approaches to the study of some masterpieces of Russian literature. Conducted in Russian.

Prerequisite: RUS 215.

RUS 380 Survey of Russian Literature (4)

Masterpieces of Russian literature. Conducted in Russian.

Prerequisite: RUS 370.

RUS 400 Special Topics in Language (2 or 4)

Special problems or topics selected by the instructor. May be repeated for a total of 4 credits. Prerequisite: RUS 314, 316 and 318.

RUS 408 Advanced Russian Conversation (2)

Practice in speaking at an advanced level, which may include style and delivery appropriate to formal and informal speaking situations. May include oral presentations, self-recording and critique. Prerequisite: RUS 316.

RUS 420 The Twentieth Century (4)

A study of works in all genres by Russian authors of the period, including Bunin, Zamiatin and Solzhenitsin. Conducted in Russian.

Prerequisite: RUS 370 and 380.

RUS 455 Translation into Russian (4)

Translation from English into Russian of a wide variety of materials ranging from commercial and technical to literary. Individual students may emphasize area of interest. Prerequisite: RUS 318 and 355.

RUS 480 Undergraduate Seminar (2 or 4)

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

Prerequisite: RUS 370 and 380.

RUS 490 Independent Reading and Research (2, 4 or 8)

Directed individual research and reading for advanced Russian majors. May be repeated for a total of 8 credits.

Prerequisite: Two 400-level Russian literature courses and permission of department.

RUS 491 Independent Translation Project (4, 6 or 8)

Directed annotated translation from Russian into English of a major work in the student's field. May not be counted toward the major.

Prerequisite: RUS 355 and 455 and permission of department.

SPANISH LANGUAGE AND LITERATURE

SPN 114-115 Introduction to Spanish and Spanish Culture (4 each)

A two-semester sequence in the fundamentals of Spanish and Spanish culture. A beginning course. SPN 114 must be taken first. SPN 114 or 115 satisfies the university general education requirement in language.





pg. 161-176 172 4/18/02, 2:42 PM



SPN 214-215 Second Year Spanish (4 each)

A two-semester sequence continuing the work of SPN 114-115, with the addition of cultural and literary readings. SPN 214 must be taken first.

Prerequisite: One year of college Spanish or equivalent.

SPN 290 Directed Readings in Spanish (2 or 4)

A reading course for nonmajors interested in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor. Prerequisite: SPN 215.

SPN 313 Spanish Phonetics (2)

Group and individual practice in the sound system of Spanish, with specific reference to interference from English. Both written and laboratory work required. Prerequisite: SPN 215.

SPN 314 Grammar Review (4)

Review of Spanish grammar and syntax through translation, reading, composition, and directed conversation.

Prerequisite: SPN 215.

SPN 316 Intermediate Spanish Conversation (2)

Provides a transition between the carefully structured drills and free manipulation of the spoken language. Offered winter semester. Must be taken with SPN 318. Prerequisite: SPN 314.

SPN 318 Spanish Composition (2)

Development of written composition skills including description, narration and exposition. Offered winter semester. Must be taken with SPN 316.

Prerequisite: SPN 314.

SPN 351 Spanish Civilization (3)

Historical approach to Spanish culture and civilization, with emphasis on geography, social structure, philosophical thought, music, art and architecture.

Prerequisite: SPN 215.

SPN 355 Translation: Spanish into English (4)

Introduction to translation utilizing a variety of materials (commercial, technical and literary). Offered winter semester.

Prerequisite: SPN 314.

SPN 369 Field Experience in Teaching Spanish in Elementary and Middle Schools (2 or 4)

Provides supervised experience in teaching Spanish in elementary and middle schools. Graded S/U. May be repeated for credit once. Does not carry credit toward departmental major. Prerequisite: SPN 215.

SPN 370 Introduction to Spanish Literature (4)

A study of literary genres and movements based on selected masterpieces of Spanish literature. Conducted in Spanish. Offered fall semester.

Prerequisite: SPN 215.

SPN 380 Introduction to Spanish-American Literature (4)

Further study of literary genres and movements based on selected masterpieces of Spanish-American literature. Conducted in Spanish. Offered winter semester. Prerequisite: SPN 370.

SPN 390 Directed Readings in Spanish (2 or 4)

Directed individual readings in Spanish. May be repeated for a total of 8 credits. Prerequisite: Permission of instructor.

SPN 408 Advanced Spanish Conversation and Composition (4)

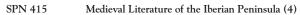
Development of advanced writing and conversational skills with emphasis on appropriate vocabulary, style, grammar and syntax. Offered fall semester.

Prerequisite: SPN 316 and 318.





pg. 161-176 173 4/18/02, 2:42 PM



Socio-historic and literary analyses of the Mozarabic *jarchas*, several archetypes of the Iberian epic, Medieval *ejempla*, 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 LaMancha* and other representative works of the prolific Spanish author, 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)

Further development of translation skills utilizing a variety of materials (commercial, technical and literary). 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.





pg. 161-176 174 4/18/02, 2:42 PM



LITERATURES IN TRANSLATION

LIT 100 Introduction to Asian Literature (4)

A survey of the four great Asian literary traditions: China, Japan, India and Middle East. Satisfies the university general education requirement in literature.

LIT 181 European Literature I (4)

A study of the main literary currents as reflected in continental European masterpieces up to 1850. All works read in English translations. Satisfies the university general education requirement in literature.

LIT 182 European Literature II (4)

A study of the main literary currents as reflected in continental European masterpieces from 1850 to the present. All works read in English translations. Satisfies the university general education requirement in literature.

LIT 251 Studies in Foreign Film (4)

A study of film as a mirror of the cultures and aesthetics of various societies. Topics to be selected by the instructor.

LIT 375 Topics in Foreign Literature (4)

A study of the main literary currents of a particular century or era of a major foreign literature. All works read in English translation. May not be used to satisfy requirements in the Department of Modern Languages and Literatures. May be repeated for credit with readings from a different foreign literature in English translation.

MODERN LANGUAGE

ML 191-192 Tutorial in Foreign Language (4 each)

Instruction in the elements of a spoken or written foreign language such as Arabic, Bengali, Czech, Sanskrit, Catalan, etc. for which no regular course sequence exists at Oakland University. May be repeated for credit in a different language each time. Satisfies the university general education requirement in language. Prerequisite: Permission of instructor.

ML 211 Diction for Singers, First Semester (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.





pg. 161-176 175 4/18/02, 2:42 PM



Field experience in an appropriate employment setting correlated with directed study assignments relating the experience to the knowledge and skills developed by the foreign language student. May not be repeated for credit.

 $Prerequisite: FRH\ or\ SPN\ 314, 316\ and\ 318; or\ GRM\ 316\ and\ 318.$

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

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

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







DEPARTMENT OF MUSIC, THEATRE AND DANCE

315 VARNER HALL

(248) 370-2030 Fax: (248) 370-2041

Chairperson: Karl Boelter

Professors emeriti: David Daniels, John Dovaras, Robert Facko, Adeline G. Hirschfeld-Medalia, Stanley Hollingsworth

Professors: Laurie Eisenhower, Carol Halsted, Flavio Varani, John Paul White

Associate professors: Lettie Alston, Karl Boelter, Michael Gillespie, Gregory Patterson, Karen Sheridan, Jacqueline Wiggins

Assistant professors: Gregory Cunningham, David Kidger, Kerro Knox, Michael Mitchell, Kathryn Wagner

Instructors: Diane Helfers Petrella, James W. Wells

Visiting assistant professor: Mariah Malec

Adjunct assistant professors: Janice Albright, Edith Diggory

Special lecturers: Danny Jordan, Mark Stone, Thomas Suda, Phyllis White

Lecturers: Barbara Bland, Donna Buckley, William Cable, Terry Carpenter, Rick Carver, Frederic DeHaven, Candace deLattre, Nadine DeLeury, Ronald DeRoo, Kitty Dubin, Connie Dugger, Patricia Gibbons, John Hall, Rebecca Happel, Suzanne Hawkins, Terry Herald, Iacob Lascu, Ruth LeBay, Lynnae Lehfeldt, Alice Lenaghan, Roberta Lucas, Angel Maclean, Thomas Mahard, Eric Maher, John Manfredi, Daniel Maslanka, Lisa McCall, Cheryl Ogonowski, Ava Ordman, Patrick O'Sullivan, Diane Raymond, David Reed, Phyllis Relyea, Alayne Rever, Elizabeth Rowin, Debra Siegel, August Thoma, Debra Wicks, 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), Kirkland Ferris (bassoon), Shari Fiore (accompanist), John Hall (guitar), Rebecca Hammond (oboe), Rebecca Happel (piano accompanist), Maxim Janowsky (double bass), Danny Jordan (jazz piano), Vladimir Kalmsky (accompanist), Mark Kieme (jazz saxophone), James William King (clarinet), Rich Kowalewski (bass guitar, jazz double bass), Alice Lenaghan (flute), Daniel Maslanka (percussion, jazz percussion), Ava Ordman (trombone, tuba), Elizabeth Parcells Becker (voice), Alayne Rever (saxophone), Elizabeth Rowin (violin, viola), Mary Siciliano (piano), Gordon Simmons (trumpet), Flavio Varani (piano), Corbin Wagner (French horn), John Paul White (voice), 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 a major in performing arts, which includes specializations in dance, music theatre, theatre performance, and theatre production; Bachelor of Music with majors in music education, 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.





pg. 177-203 177 4/18/02, 2:43 PM



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 and composition. 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 *Music Handbook*. Students should consult with a departmental adviser 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.

A.	Liberal arts requirements:	Credits
	Writing proficiency (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 Ethnic diversity requirement (may be satisfied by general education	8
	or distribution course, if chosen from appropriate list)	0-4
	Language: Modern language course (115 or higher) Note: this major requirement will fulfill both general education and distribution language requirements.	4-8
в.	Music requirements:	
	MUT 112/113, 114/115, 212/213, 214/215 Music Theory/Ear Training	16
	MUT course selected from MUT 311, 312, 410, 411	4
	MUS 120 Introduction to Non-Western Music	2
	MUS 121 Introduction to Western Music	2 2 8
	MUS 320, 321 Western Music History and Literature I, II	8
	MUE (Ensembles): Four semesters; two must use applied major	4
	Applied music (may include conducting and up to 4 credits in keyboard	
	techniques)	16





pg. 177-203 178 4/18/02, 2:43 PM



Music history or music theory electives chosen from: MUS 200, 236, 336, 338, 428, 429 or MUT 260, 261, 311, 312, 314, 410, 411

8

Non-credit requirements:

Participation in band, orchestra, chorale or chorus (must enroll every semester of major)

Ear training proficiency

Events attendance requirement

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

This degree is intended for students who wish to pursue careers in the general 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 a departmental adviser to plan their degree program. This degree program requires a minimum of 124 credits. The following course work is required, with the core pertaining to all four specializations.

A. Liberal arts requirements:	Credits
Writing proficiency (RHT 150/160 or equivalent)	0-8
University general education requirements (music, theatre and dance	
courses used to satisfy the core may not be used to fulfill the arts category)	32
College distribution requirements: 3 additional courses from any two of	
the distribution categories except art/literature	12
Ethnic diversity requirement (may be satisfied by general education or	
distribution course, if chosen from appropriate list)	0-4
Language: one semester of a modern language course	4
Note: this major requirement will fulfill the general education requirement.	

B. Core:

MUA, MUE, MUS, MUT, THA, AH and SA courses in consultation with the student's adviser

C. Specialization requirements (Choose one specialization):

Dance specialization:

DAN 170	Dance Improvisation/Choreography I	7
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 20th Century Dance	2
DAN 428	Opportunities and Careers in Dance	2
DAN 441	Dance Pedagogy	4
DAN 472	Choreography III	4
Dance electives from	DAN 200, 300, 210, 310, 220, 320, 130,	
	373, 374, 430, 490, 497	6
MUT 110	Musical Form and Comprehension	2
		4.4





pg. 177-203 4/18/02, 2:43 PM



N	on-credit	requirements:
LΝ	on-crean	reautientents.

Senior interview in dance

Performance production requirement Events attendance requirement

Music	theatre	specia	lization
Music	tneatre	specia	nzauon

THA 110	Acting: Fundamentals	2
THA 120	Stagecraft or THA 121: Costume Craft	2
THA 220	Theatre Ensemble (2 semesters)	4
THA 305	History and Performance of Music Theatre	4
THA 310	Acting: Realism	2
MUA 160	Vocal Techniques	2
MUA 100-300	Applied voice	10
MUT 110	Musical Form and Comprehension	2
MUT 111	Notation of Musical Ideas	2
MUE 350	Opera Workshop and/or MUE 351 Musical Theatre I	
	Workshop (2 semesters)	2
DAN 373	Dance for the Musical Theatre I	2
Dance technique of	course (may not be satisfied by DAN 130)	2
Music ensemble el	ective(s) from any MUE course(s)	2
Electives from any	departmental course: MUA, MUE, MUS, MUT, DAN,	
THA		6
		44

Non-credit requirements:

Senior interview in theatre performance Performance production requirement Events attendance requirement

Theatre performance specialization:

THA 110	Acting: Fundamentals	2
THA 120	Stagecraft	2
THA 121	Costume Craft	2
THA 220	Theatre Ensemble (2 semesters)	4
THA 301, 302	Theatre History I, II	8
THA 310	Acting: Realism	2
THA 330	Stage Management	2
THA 331	Stage Manager Project	2
THA 405	Directing I	2
THA 406	Directing II	2
Design elective fro	om THA 320, 321, 322, 323	6-8
MTD or dramatic	literature electives (e.g., ENG 105 Shakespeare;	
	ENG 306 Drama; ENG 307 Modern Drama;	

Non-credit requirements:

Senior interview in music theatre Performance production requirement Events attendance requirement

ENG 315 Shakespeare)

Theatre production specialization:

THA 110	Acting Fundamentals	2
THA 120	Stagecraft	2
THA 121	Costume craft	2
THA 220	Theatre Ensemble (2 semesters)	4





<u>8-10</u> 42-46



THA 221	Scenographics	4
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 f	from THA 320, 321, 322, 323	10-12
Theatre electives	(any THA course, except 100, not used for	
specialization req	uirements)	<u>4-6</u>
		42-46

Non-credit requirements:

Senior interview in theatre production 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*. Students should consult with a departmental adviser to plan their degree program. 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 proficiency (RHT 150/160 or equivalent completed at 3.0 or higher)	0-8
University general education requirements (arts requirement satisfied by MUS 320)	32
Ethnic diversity requirement (satisfied by RDG 538)	0-4
Language: modern foreign language course (115 or higher)	4-8
Note: this major requirement will fulfill both general education and distribution	
language requirements.	

B. School of Education requirements:

*KDG 538	Leaching Reading in the Content Areas	4
*SED 455	Internship in Secondary Education (5th year)	12
*SE 501	Intro to the Student with Special Needs	4
		20

Michigan Test for Teacher Certification: Basic Skills, Music Education

C. Music requirements:

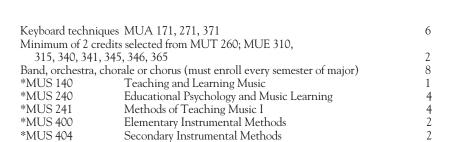
widsic requirement	3•	
MUT 112/113, 114/	/115, 212/213, 214/215 Music Theory/Ear Training	16
MUT course selected from MUT 311, 312, 410, 411		4
MUS 120	Introduction to Non-Western Music	2
MUS 121	Introduction to Western Music	2
MUS 320, 321	Western Music History and Literature I, II	8
MUA 161	Vocal Techniques for Instrumentalists I	2
MUA 251-253, 255	-258 Beginning instrument classes	10
Applied major (MU	JA; normally an orchestral instrument; must include	
2 semesters at the	e 400-level)	16





pg. 177-203 181 4/18/02, 2:43 PM

Philosophical and Historical Foundations of Music Education



Non-credit requirements:

*MUS 395-396

*MUS 531

Ear training proficiency Events attendance requirement

Conducting I, II

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 proficiency (RHT 150/160 or equivalent, completed at 3.0 or higher) 0-8
University general education requirements (arts requirement satisfied by MUS 320) 32
Ethnic diversity requirement (satisfied by RDG 538) 0-4
Language: modern foreign language course (115 or higher) plus
ML 211-212 Diction for singers (offered only in alternate years) 8-12
Note: this major requirement will fulfill both general education and distribution language requirements.

B. School of Education requirements:

*RDG 538	Teaching Reading in the Content Areas	4
*SED 455	Internship in Secondary Education (5th year)	12
*SE 501	Intro to the Student with Special Needs	4
		20

Michigan Test for Teacher Certification: Basic Skills, Music Education

C. Music requirements:

		major	major
MUT 112/113, 114/115, 212/213, 214/215			
	Music Theory/Ear Training	16	16
MUT course selec	ted from MUT 311, 312, 410, 411	4	4
MUS 120	Introduction to Non-Western Music	2	2
MUS 121	Introduction to Western Music	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 370	Accompanying for Nonpianists	1	0
MUA 375	Accompanying for Piano Majors	0	1
Applied voice MUA, must include 2 semesters			
at the 400 de	vel for voice majors	14	4





182

voice

piano

^{*}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.



Keyboard Techniques MUA 171, 271, 371, 471, and applied piano Applied Piano (MUA, must include 2 semesters at the 400-level)			0 16
MUA 250	Instrumental Methods for Vocal Majors	2	0
Ensembles:	Band, orchestra, or chorus	8	8
	(must enroll every semester of major)		
Minimum of 2 credi	ts selected from MUT 260; MUE 310,		
315, 340, 341, 345, 346, 365			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	4	4
	of Music Education	92	88

Non-credit requirements:

Ear training proficiency Events attendance requirement

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 proficiency (RHT 150/160 or equivalent)
University general education requirements (arts requirement satisfied by MUS 320) 32
Ethnic diversity requirement (may be satisfied by general education or distribution course, if chosen from appropriate list)
University general education or distribution course, if chosen from appropriate list)
University requirement or German course numbered 115 or higher,

plus ML 211-212 Diction for Singers (offered only in alternate years)
Note: this major requirement will fulfill both general education and distribution language requirements.

B. Music requirements:

Music requirements		
MUT 112/113, 114/	115, 212/213, 214/215 Music Theory/Ear Training	16
MUT course selected	d 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
MUA 361-362	Vocal Literature	4
MUS 395-396	Conducting required	4
MUA 160	Vocal Techniques	2
Applied major	(must include 2 semesters at the 400 level)	22
Applied minor	(keyboard unless excused by proficiency equivalent	
	to MUA 471)	8
Ensembles	Band, orchestra, or chorus	
	(must enroll every semester of major)	7
Accompanying	MUA 370 or 375	1
Senior recital	MUA 499	2
		82





pg. 177-203 183 4/18/02, 2:43 PM

^{*}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.



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Non-c	redit	reauirer	nents:

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.

Α.	Liberal	arts	requi	remei	its
	Writing	nro	ficien	cv (RI	HТ

Writing proficiency (RHT 150/160 or equivalent)	0-8
University general education requirements (arts requirement satisfied by MUS 320)	32
Ethnic 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
Note: this major requirement will fulfill both general education and distribution	
language requirements.	

B. Music requirements:

MUT 112/113, 11-	4/115, 212/213, 214/215 Music Theory/Ear Training	16
MUT course selected from MUT 311, 312, 410, 411		
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 Skills for the Piano Major I, II	4
MUS 395-396	Conducting I, II required	4
Applied major	(MUA must include 2 semesters at the 400 level)	24
Applied minor		8
Ensembles:	Band, orchestra, or chorus (must enroll every	
	semester of major)	5
Accompanying	MUA 375 (1) and MUE 390 (2)	3
Senior recital	MUA 499	2
		82

Non-credit requirements:

Ear training proficiency Events attendance requirement

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 proficiency (RHT 150/160 or equivalent)	0-8
University general education requirements	32
(arts requirements satisfied by MUS 320)	
Ethnic 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
Note: this major requirement will fulfill both general education and distribution	
language requirements.	





pg. 177-203 184 4/18/02, 2:43 PM

78-86



B.	Music requirements:	:	
		15, 212/213, 214/215 Music Theory/Ear Training	16
	MUT 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
	Music Literature/Pedagogy requirement: 4 credits chosen from: MUS 360,		
	361, 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	Band, orchestra, or chorus (must enroll every	
		semester of major)	8
	Accompanying	MUA 375 (1) and MUE 390 (2)	3
	Senior recital	MUA 499	2
			83

Non-credit requirements:

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:

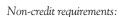
Writing proficiency (RHT 150/160 or equivalent)	0-8
University general education requirements (Arts requirements satisfied by MUS 320)	32
Ethnic diversity requirement (may be satisfied by general education	
or distribution course, if chosen from appropriate list)	0-4
Language course (Italian, French or German recommended) numbered 115	
or higher	4-8
Note: this major requirement will fulfill both general education and distribution	36-52
language requirements.	

B.

Music requirements	S:	
MUT 112/113, 114/	'115, 212/213, 214/215 Music Theory/Ear Training	16
MUT course selected from MUT 311, 312, 410, 411		
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 395-396	Conducting I, II	4
MUA 471	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	2.







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 proficiency (RHT 150/160 or equivalent)	0-8
University general education requirements (arts requirement satisfied by MUS 320)	32
Ethnic 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
Note: this major requirement will fulfill both general education and distribution	
language requirements.	

B. Music requirements:

VIII 112/112 1:	1.4/1.15 212/212 21.4/215 M · TI /F T · ·	1.0
	14/115, 212/213, 214/215 Music Theory/Ear Training	16
MUT course selected from MUT 311, 312, 410, 411		
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 395-396	Conducting I, II	4
MUA 471	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	2
Senior recital	MUA 499	2
		78-86

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: Pontiac Oakland symphony, Symphonic Band, Concert Band, University Chorus, Oakland Chorale or Community Chorus. In addition, students may 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 performing arts majors in theatre and dance.

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* for more information.

To apply for major standing, students must:

- 1. Meet with a departmental adviser and prepare a program plan.
- Complete an application for major standing and submit it with the completed program plan to the department office.
- 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 a liberal arts 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 head of their division.

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 Education Building, (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, 441





pg. 177-203 187 4/18/02, 2:43 PM



This minor is designed for K-12 certification.

Requirements for the liberal arts minor in music

The student who wishes to earn a liberal arts minor in music must first audition for the department. It is the same audition required by music majors and intended to confirm that the student is prepared for these classes.

To earn a minor in music, students must complete a minimum of 24 credits in music chosen in consultation with a department adviser as follows: 6 credits of applied music (MUA); 4 credits music ensembles (MUE); 8 credits of music theory (MUT); 6 credits of music history (selected from any combination of MUS 120, 121, 200, 236, 320, 321, 336, 338, 428, 429).

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: 4 credits in THA 110 and 120 or 121; 4 credits from THA 301, 302 and 305; 4 credits from THA 210, 211, 213 and 310; 4 credits from THA 320, 321 and 322; and 4 additional credits from any theatre course(s) except THA 100.

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 a liberal arts minor in music or who are officially majoring in one of the department's music curricula: the liberal 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, 149 (all with permission of instructor); MUA 150, MUA, 151; MUS 100, 200, 334, 336, 338, 353, 354; MUT 109, 110, 111,260, 261.

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





pg. 177-203 188 4/18/02, 2:43 PM



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.

MUA 100 Voice (1, 2 or 4) Prerequisite: MUA 150 or MUA 160 for one semester.

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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)
                                       Percussion (1 or 2)
MUA 117, 217,
                                       Percussion (1, 2 or 4)
MUA 317, 417
MUA 118, 218
                                       Harp (1 or 2)
MUA 318, 418
                                       Harp (1, 2 or 4)
MUA 119, 219, 319, 419
                                       Guitar (1 or 2)
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 149, 249, 349, 449
                                       Applied Music (1 or 2)
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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 prerequisite to private voice study. Preference for openings in this course is given to music majors.

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 171, 271, 371, 471 Keyboard Technique (2 each)

Development of the basic keyboard facility essential to any musician and some acquaintance with keyboard literature. May not be repeated for credit. MUA 171 requires placement exam and permission of instructor.

Prerequisite: permission of instructor.

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.

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.

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 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 212 (may be taken concurrently) and permission of instructor.

MUA 370 Accompanying for the Nonpianist (1)

Basic accompanying skills for the non-piano major. Designed for music education majors who will need basic accompanying skills to function effectively in choral and general music classrooms.

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 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.

4/18/02, 2:43 PM

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 Improvisation Workshop (2)

A laboratory in vocal improvisation designed to increase skills in performing commercial and popular music.

Prerequisite: Permission of instructor.

Vocal Jazz Ensemble (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.

Pontiac-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.

Symphonic Band (0 or 1) **MUE 331**

An ensemble of wind instruments performing standard concert band literature.

Prerequisite: Permission of instructor.

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.

Jazz Improvisation Workshop (0 or 1)

A performance practice laboratory designed to increase improvisational skills indigenous to jazz performance and to identify systematically and use stylistic characteristics of various jazz subcategories.

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.

Steel Band (0-1)

Study and performance of various Trinidadian and Carabbean styles using handcrafted steel drums.

MUE 350 Opera Workshop (0 or 1)

Study and experience in various forms of operatic music theatre.

Prerequisite: Permission of instructor.

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 (0-1)

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.



MUS 100 An Introduction to Music (4)

An introduction to the techniques of listening to great music, and a study of its elements, forms and styles. Begins at the level of the student lacking previous musical experience. An elective for nonmusic majors. Satisfies the university general education requirement in arts.

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.

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 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 ethnic diversity requirement. Satisfies the general education requirement in arts.

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.





pg. 177-203 193 4/23/02, 12:58 PM



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 arts.

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 arts. 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.

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 ethnic diversity requirement.

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 ethnic diversity requirement. Satisfies the general education requirement in arts.









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.

Prerequisites for 360: MUS 320, 321. Prerequisite for 361: MUS 360.

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 410 Introduction to Music Bibliography (2)

An introduction to basic research materials and methods in musicology.

Prerequisite: MUS 320 and a 400-level theory course.









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, 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, 321.

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 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 465 Performance Practices (2)

A study of the performing practices of music of earlier times. Content varies each semester. May be repeated a total of three times for credit with permission of instructor.

Prerequisite: Permission of instructor.

MUS 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.





pg. 177-203 196 4/18/02, 2:43 PM



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: MÛT 110 or permission of instructor.

MUT 112 Music Theory I (3)

Fundamentals of musical structure, form, analysis and style. Intended for music majors.

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.

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: MUT 260 and 261 with average grade of 3.50 or higher. MUT 214 or permission of instructor.

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.







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 arts.

THA 110 Acting: Fundamentals (2)

Basic physical, vocal, emotional, and intellectual techniques for the actor. Improvisation as an initial step in the development of the actor's resources and as a key to creativity. May include some exploration of scripted scenes.

THA 120 Stagecraft (2)

Survey of techniques of scenery construction and stage lighting, including proper use of tools and hardware in these areas. A minimum of 30 hours of production work is required.

THA 121 Costume Craft (2)

Survey of basic techniques of costume construction crafts, including proper use of tools and materials. A minimum of 30 hours of production work is required.

THA 122 Costume and Culture in America (4)

Survey of clothing styles of America from its inception to the present. Emphasis on the different cultures that have arrived in America and their effect on clothing styles.

THA 210 Stage Voice (2)

Development of the actor's understanding and practical command of vocal production, articulation and pronunciation.

THA 211 Stage Movement (2)

Studies in various forms of movement demanded of the actor. Topics vary, e.g., period movement, T'ai Cki, stage combat and voice-movement integration. May be repeated for credit.

THA 213 Mime (2)

Fundamentals of mime technique for the actor.

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 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. Graded S/U.

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: THA 120.

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: THA 120.





pg. 177-203 199 4/18/02, 2:43 PM



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 arts.

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 arts.

THA 305 History and Performance of Music Theatre (4)

A historical overview of opera and musical theatre.

THA 310 Acting: Realism (2)

Scene study focusing on the requirements of realistic acting. Accompanying work on vocal and physical technique. May be repeated once for credit.

Prerequisite: THA 110.

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 110.

THA 320 Scenic Design (4)

A study of the process of designing scenery for the stage, including conceptualization, drafting and rendering.

Prerequisite: THA 120. THA 221 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. THA 221 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 121. THA 221 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.

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 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 220 recommended.

THA 340 Playwriting (4)

Creative writing for the theatre, emphasizing fundamentals of scene, character and dialogue development.





pg. 177-203 200 4/23/02, 12:59 PM



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 110, 120 or 121, and THA 320, 321, or 322.

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 411 Acting: Shakespeare (2)

Techniques for acting Shakespearean texts.

Prerequisite: THA 310 and permission of instructor.

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 in the areas of scenery, costumes, lighting or sound produced under faculty supervision. 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.

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.

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.

Prerequisite: Will vary with topic; permission of instructor.

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, 200, 300, 400 Ballet (2)

Technique of classical ballet. Each course may be repeated for up to 8 credits.

DAN 110, 210, 310, 410 Modern Dance (2)

Technique of modern dance. Each course may be repeated for up to 8 credits.

DAN 120, 220, 320, 420 Jazz Dance (2)

Technique of jazz dance. Each course may be repeated for up to $8\ \text{credits}.$







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 (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 arts.

DAN 175 Ethnic Dance in America (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 general education requirement in arts.

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 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. Graded S/U.

DAN 330 Kinesiology for the Dancer (4)

Analysis of movement from an anatomical and mechanical point of view with emphasis on problems of dance technique. Also includes prevention and treatment of dance-related injuries. Prerequisite: Three dance courses.

DAN 350 Creative Dance for Children (4)

Methods and styles of teaching dance to children within schools, community centers and private studios.

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 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 1920's 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 Practicum: Dance Rehearsal and Performance (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: Permission of instructor.







DAN 402 Advanced Ballet: Partnering (2)

DAN 404 Advanced Ballet: Pointe (1)

DAN 423 Historical Dance (2)

The study of Baroque, Renaissance and 19th century social dance styles. Course includes practical, theoretical and historical background.

Issues and Trends in 20th Century Dance (2) **DAN 425**

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.

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.

Dance Pedagogy (4)

Theory and practice of teaching ballet and modern dance. Emphasis on instruction of adult-level classes. Prerequisite: DAN 200 and 210.

DAN 470 Elementary Labanotation (4)

An introduction to Laban's system of movement notation.

Prerequisite: 12 credits in dance, including DAN 173.

Choreography III (4) **DAN 472**

Continuation of DAN 372 at a more advanced level. Lab required.

Prerequisite: DAN 372.

DAN 480 Senior Recital (1 or 2)

A dance program choreographed and performed by a student in the final year of dance study.

Prerequisites: Senior standing, 24 credits in dance including DAN 173, 372, 376 and permission of instructor.

Independent Study (1, 2 or 4) **DAN 490**

Permission of instructor. Graded S/U.

Apprentice College Teaching (2 or 4)

Supervised participation in teaching an undergraduate course in dance, together with discussion of teaching methods and objectives.

Prerequisite: Permission of instructor.

Apprenticeship (1 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.





203



341 0'DOWD HALL (248) 370-3390 Fax: (248) 370-3144

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 professor: Elysa Koppelman

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: Richard J. Burke

Philosophy is one of the oldest yet often least understood of the liberal arts. The philosopher is interested in all aspects of human life, searching for the greatest possible clarity concerning the most fundamental questions. There is no one kind of philosophy; rather, there are many kinds, each with its own value.

Philosophy has always served two functions. The first is speculative, the attempt to formulate illuminating generalizations about science, art, religion, nature, society and any other important 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





pg. 204-209 204 4/18/02, 2:44 PM



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
- 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





pg. 204-209 205 4/18/02, 2:44 PM



- 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 Western civilization.

PHL 102 Introduction to Logic (4)

The relationship between conclusions and statements given in support of them. In addition to elementary deductive and inductive logic, topics may include analysis of ordinary arguments, argument by analogy and informal fallacies. Offered every semester. Satisfies the university general education requirement in mathematics, logic and computer science.

PHL 103 Introduction to Ethics (4)

Major ethical analyses of right and wrong, good and evil, from the ancient Greeks to the present. Appeals to custom, theology, happiness, reason and human nature will be examined as offering viable criteria for judgments on contemporary issues of moral concern. Offered every semester. Satisfies the university general education requirement in Western civilization.

PHL 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 mathematics, logic and computer science.

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 Western civilization.

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 Western civilization.

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 Western civilization.

PHL 300 Topics in Philosophy (4)

One philosophical topic or problem at an intermediate level of difficulty. Topic to be announced in the *Schedule of Classes* for each semester.

Prerequisite: One philosophy course.

PHL 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.





pg. 204-209 206 4/18/02, 2:44 PM



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.

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.

Philosophy of Peace and War (4)

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

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.

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

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.





4/18/02 2:44 PM



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 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.





pg. 204-209 208 4/18/02, 2:44 PM



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.





pg. 204-209 209 4/18/02, 2:44 PM



DEPARTMENT OF PHYSICS

190 SCIENCE AND ENGINEERING BUILDING

(248) 370-3416 Fax: (248) 370-3408

Chairperson: David Garfinkle

Professors emeriti: Abraham R. Liboff, John M. McKinley, Ralph C. Mobley, Paul A. Tipler, W. D. Wallace, Robert M. Williamson

Professors: Beverly K. Berger, Michael Chopp, David Garfinkle, Andrei Slavin, Gopalan Srinivasan, Norman Tepley, Uma Devi Venkateswaran

Associate professors: Ken Elder, Bradley J. Roth, Yang Xia

Adjunct professors: Richard L. Berger, Carl Bleil, Peter M. Corry, Howard J. Dworkin, Adrian Kantrowitz, Jae Ho Kim, Joseph V. Mantese, Harold Portnoy, Paul D. Stein, John Wai-Chiu Wong

Adjunct associate professors: Stephen L. Brown, James R. Ewing, Robert A. Knight, Yong J. Lee, S. David Nathanson, Joseph S. Rosenshein

Adjunct assistant professors: Elwood P. Armour, Susan M. Bowyer, Neil Gelman, David A. Jaffray, Quan Jiang, Mark Oldham, Michael Sharpe, Di Yan, Zhang Zheng-Gang

Adjunct instructor: Ray A. Carlson

Lecturers: Clara Castoldi, Sally K. Daniel

Chief adviser: Ken Elder

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.





pg. 210-216 210 4/18/02, 2:44 PM



Advising

Chief adviser: Ken Elder

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





pg. 210-216 211 4/18/02, 2:44 PM



- 3. Four credits chosen from: PHY 306, 318, 347, 418, 487, 490
- 4. MTH 154, 155 and APM 257 (11 credits)
- 5. CHM 157 and 158
- 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, 107, 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 (11 credits). Extended study including SED 428, 455; SE 501 and FE 602 (26 credits) 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 (141 O'Dowd 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 47?
- 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
- 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

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. Nonscience majors must complete an additional 4 credits in science for a total of 24 credits.

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 university general education requirement in natural science and technology.

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.

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 natural science and technology.

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 natural science and technology.

PHY 106 Earth Sciences (4)

The earth as a planet. Topics include: origin, history, orbit, gravity, rocks and minerals, earthquakes, the interior and the theory of continental drift. Offered fall only. Identical with GEO 106. Satisfies the university general education requirement in natural science and technology.

PHY 107 Physical Geography (4)

A description of the physical details of the earth's surface, including: time and the rotating earth; place in terms of position, elevation, and direction; U.S. geography; mountains, rifts, islands, and deserts; methods of navigation; map reading; weather in terms of air masses, fronts, and storms; the geomagnetic field; the earth's resources. Offered winter only. Identical with GEO 107. Satisfies the university general education requirement in natural science and technology

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 natural science and technology.

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. Satisfies the university general education requirement in natural science and technology.

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. Satisfies the university general education requirement in natural science and technology.

Prerequisite: High school algebra.

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

Interdiciplinary 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 natural science and technology.

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 natural science and technology. 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 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 number years only.

Prerequisite: PHY 102 or 152, and MTH 254.

PHY 305 Astrophysics II (4)

Continuation of PHY 304. Offered winter of even number 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 PHY 104 or 105 and permission of instructor.





pg. 210-216 214 4/18/02, 2:44 PM



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 107 highly recommended.

PHY 317 Modern Physics Laboratory (2)

Optics and atomic physics experiments. Offered fall only.

Prerequisite: PHY 158. Corequisite: PHY 371.

PHY 318 Nuclear Physics Laboratory (2)

Nuclear physics experiments. Offered winter odd number 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 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 number 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 number 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 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 number 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.

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 371 or permission of instructor.

PHY 445 Medical Instrumentation (2)

 $Detailed \, examination \, of the \, scientific \, instrumentation \, used \, in \, modern \, medical \, diagnostic \, and \, the rapeutic \, practice.$

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.





pg. 210-216 216 4/18/02, 2:44 PM



DEPARTMENT OF POLITICAL SCIENCE

418 VARNER HALL

(248) 370-2352

Fax: (248) 370-4299

Chairperson: C. Michelle Piskulich

Professors emeriti: Thomas W. Casstevens, Edward J. Heubel, Roger H. Marz, James R. Ozinga

Professors: Sheldon Appleton, Robert J. Goldstein, Vincent B. Khapoya, John S. Klemanski

Associate professors: Emmett Lombard, William A. Macauley, Dale K. Nesbary, C. Michelle Piskulich, J. Patrick Piskulich, Martha T. Zingo

Assistant professors: John Bohte, John F. Kelly, Paul J. Kubicek

Adjunct assistant professors: Annette Graziani-Lozen, Robert Mourning, Donna Petras, Anthony Tersigni

Chief adviser: Martha T. Zingo

Internship director: J. Patrick Piskulich

Political science offers a concentrated and systematic study of politics at all levels of government and in many different cultural and national settings. Policy making, law, political behavior, administration, international politics, foreign governments, and theories and philosophies of government are among the many topics covered in these courses. The general educational aim is to increase students' awareness and understanding of the broad realm of politics and government. Many students electing this major wish to prepare for careers in public service, law, practical politics, or the teaching of government and social studies.

The Bachelor of Arts degree with a major in political science is the department's broadest program and is appropriate for students with an interest in public affairs or students who intend to enter law school or graduate school. The department also offers a major in public administration leading to the Bachelor of Science degree. This program is designed to provide appropriate analytical skills and prepare students for direct entry into public service or for specialized graduate programs in public administration and public policy. The Master of Public Administration degree is also offered by the department (see the Oakland University Graduate Catalog). The Master of Public Administration degree is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA).

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

To be admitted to major standing, students must complete the following core program: PS 100, 131, 303 and 304. 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 (14 credits): PS 100, 131, 303 and 304. PS 303 and 304 should be taken in the sophomore year if possible and no later than the junior year.





pg. 217-224 217 4/18/02, 2:45 PM



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, 342, 350, 353, 470, 478 and 484;

Comparative and international politics: PS 314, 318, 329, 330, 331, 332, 333, 334, 335, 337, 472 and 476;

Political theory and political thought: PS 320, 321, 371, 372, 373, 377 and 480.

3. The remaining 14 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, 131, 303 and 304. 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 52 credits, distributed as follows:

- 1. The core program (14 credits): PS 100, 131, 303 and 304. PS 303 and 304 should be taken in the sophomore year if possible and no later than the junior year.
- 2. The sequence of departmental courses (26 credits). Required are: PS 257, 350, 353, 453, 454 and 458. Enrollment in PS 458 (8 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 or PS 131 and at least 8 credits at the 300-400 level.

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 131 or 314); political philosophy (PS 371, 372 or 373); and cross-cultural perspectives (PS 311). 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





pg. 217-224 218 4/18/02, 2:45 PM



average of 3.70 for courses in political science. Two Alumni Scholarships are awarded 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, social justice and corrections, and women's studies.

Recommended courses for prelaw students

It is recommended that political science majors interested in law school elect the law-related courses given by the department: PS 241 Law and Politics, PS 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.

Legal Assistant Program

In cooperation with the College of Arts and Sciences, the Department of Political Science sponsors courses that prepare students for the legal assistant field. To earn the certificate in this American Bar Association (ABA) approved program, students must take eight foundation courses and three legal specialty courses, and serve an internship in a legal setting.

A student majoring in political science may offer up to 8 credits of this course work toward the 40 credits required for the major. Legal assistant courses taken beyond these 8 credits may yield elective credits toward the degree. These courses may also be taken as electives by students in other programs. For a course to qualify for both degree and Legal Assistant Program certificate, concurrent registration for the course in both programs is required. Students who take legal assistant courses for certificate credits, but who wish to convert those credits to a degree at Oakland, should consult with a legal assistant 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 Continuing Education, College of Arts and Sciences (221 Varner Hall, 370-3125) or contact the director of the Legal Assistant Program.

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PS 379
         (CE 2500)
                        Introduction to the Law (2)
PS 380
         (CE 2506)
                        Substantive Law: Contracts (2)
PS 381
         (CE 2507)
                        Substantive Law: Torts (2)
         (CE 2510)
PS 382
                        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 387
         (CE 2555)
                        Taxation of Estates and Trusts (2)
PS 388
         (CE 2568)
                        Estate Planning and Documents (2)
PS 421
         (CE 2540)
                        Litigation I: Case Preparation before Trial (2)
PS 422
                        Litigation II: Case Preparation before Trial (2)
         (CE 2541)
PS 423
         (CE 2547)
                        Litigation III: Anatomy of a Lawsuit (2)
PS 424
         (CE 2521)
                        Criminal Law (2)
PS 425
         (CE 2522)
                        Administrative Law (2)
PS 426
         (CE 2524)
                        Environmental Law (2)
PS 427
         (CE 2535)
                        Employment Law (2)
PS 428
         (CE 2536)
                        Employee Benefits (2)
PS 429
         (CE 2532)
                        Immigration Law and Procedure (2)
PS 431
         (CE 2575)
                        Computer Assisted Legal Research (2)
PS 432
         (CE 2576)
                        Patent, Trademark and Copyright Law (2)
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pg. 217-224 219 4/18/02, 2:45 PM



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 Legal Assistant (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 social science. Also satisfies the university ethnic diversity requirement.

PS 110 Contemporary Political Issues (2 or 4)

Selected topics dealing with current political issues or public policy problems. The particular topic will be announced at the time of offering. Designed for the general student. May be repeated for credit with different topics.

PS 115 U.S. Foreign Policy (4)

A survey of the development of U.S. foreign policy with special emphasis on post-cold war issues and challenges. The domestic and global context affecting foreign policy decisions is examined. Satisfies the university general education requirement in social sciences.

PS 131 Comparative Politics (4)

Introduction to the major modern political systems, comparing the organization and operation of politics and government in different countries with special emphasis on the impact of culture, history and resources. Problems of democratization in non-democratic systems and the dilemmas of reform. Satisfies the university general education requirement in social sciences.

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 ethnic diversity requirement.

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 ethnic diversity requirement.

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. Concurrent enrollment in PS 304 is recommended.

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. Laboratory exercises will be coordinated with materials in PS 303. Concurrent enrollment in PS 303 is recommended.

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 307 State Politics (4)

Comparative analysis of the variations and similarities of the political systems of the 50 states, the policy-making structures, political participation and contemporary public policy issues. Prerequisite: PS 100.

PS 311 Women and Politics (4)

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

PS 314 International Politics (4)

A study of the nature of the international community and the forces that produce cooperation and conflict. Key themes include: analytical approaches for studying world politics, processes of foreign policy decision-making, major international economic issues, conflict resolution and future trends in the world community.

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 social sciences.

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.





pg. 217-224 221 4/18/02, 2:45 PM



PS 325 Demography of American Politics

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 Southern Asia (4)

Examination of the elements of political life in India, Bangladesh and Pakistan. The cultural, historical, social and economic factors that influence contemporary political institutions, and the issues and processes by which political conflicts are resolved will be studied.

PS 335 Politics of Latin America (4)

Analysis of Latin American political systems and the historical, social and economic factors underlying them. The major countries are studied intensively, and a comparative approach is used to examine the variations from democracy to dictatorship and the political instability that characterizes the area.

PS 337 The 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 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.

Prerequisite: 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 355 Environmental Politics and Policy (4)

Examination of environmental problems and how major legal, political and bureaucratic forces influence the development and implementation of environmental policy. Interactions among governmental and nongovernmental actors at all levels are analyzed. Effective modes of citizen participation are also studied. Not open to students who have taken PS 250.

PS 359 Public Policy and Health Care (4)

An examination of the status and evolution of public policies relating to health and health care, the policy-making processes in health care and the various implications of trends in health care policy. Identical with HBS 359.

Prerequisite: PS 100.

PS 371 American Political Thought (4)

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 ethnic diversity requirement.

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 scrutinizes the assumptions behind deeply rooted modes of thought that currently impact people's lives.

PS 377 Communism (4)

pg. 217-224

The development of revolutionary socialism from early Marxism to the present. The course analyzes the relevance of Marxism to a variety of contemporary revolutionary situations. Satisfies the university general education requirement in Western civilization.

PS 390* Independent Study (2 or 4)

Readings not normally covered in existing course offerings. Directed on an individual basis. Prerequisite: Permission of department and instructor; form available in 418 Varner Hall.





223 4/18/02, 2:45 PM



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. Identical with SOC 412.

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 Personnel Administration (4)

Study of the procedures, techniques and problems of personnel administration in public agencies; evolution of the modern civil service system, merit principle, and responses to collective bargaining and equal opportunity programs.

Prerequisite: PS 350 and either PS 303 or STA 225.

PS 458* Public Affairs Internship (4 or 8)

Supervised student internships with governmental, political and other public agencies; reports and analyses relating to agency required. Applicants must seek departmental approval at the beginning of the semester prior to that of the internship. 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; 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 and criticism. The seminar titles refer to the broad fields of political science within which the problem falls; the precise problems to be studied will be announced by the department when the seminars are offered. All seminars require permission of the department before registration. Offered every semester.

PS 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)





pg. 217-224 224 4/18/02, 2:45 PM



DEPARTMENT OF PSYCHOLOGY

111 PRYALE

(248) 370-2300 Fax: (248) 370-4612

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: Christine Hansen, I. Theodore Landau, Lawrence G. Lilliston, Ralph Schillace, David W. Shantz

Assistant professors: Mary B. Eberly, Ronald L. Butzlaff, Cynthia Sifonis

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.

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, 335 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 social science.

PSY 130 Psychology and Society (4)

Examination of relationships among people and the effects of these relationships upon them. Analysis of social functions and roles; development and change of attitudes, beliefs and values; and development of personality in relation to the social milieu. Satisfies the university general education requirement in social science.

PSY 200 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. Two years of high school mathematics (some algebra) are recommended. Prerequisite: PSY 250.

PSY 311 Sensation and Perception (4)

Approaches to the basic sensory systems and perceptual processes. 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.

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.

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. 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. Prerequisite: PSY 250.





pg. 225-230 227 4/18/02, 2:46 PM



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. 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. 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.

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.

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.

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.

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.

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.

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.

Prerequisite: PSY 250.

PSY 341 Abnormal Psychology (4)

The psychodynamics of abnormal behavior, clinical types, methods of investigation and principals of psychotherapy.

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.

Prerequisite: PSY 250.







PSY 343 Psychopathology of Childhood (4)

The psychopathology of children and adolescents, emphasizing dynamic and cognitive-perceptual-motor variables. 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.

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. 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.

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. 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. Does not count toward the major. May not be repeated for credit.

Prerequisite: PSY 250, 2 courses between PSY 310 and 349, and permission of instructor.

PSY 415 Seminar in Basic Psychological Procedures (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.





pg. 225-230 229 4/18/02, 2:46 PM



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.

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.

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.

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.

Senior Seminar in Psychological Science (4) PSY 460

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.

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.

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

316 WILSON HALL

(248) 370-4120 Fax: (248) 370-4208

Interim chairperson: Sharon L. Howell

Professor emerita: Wilma Garcia

Professors: Jane L. Briggs-Bunting (director, Journalism Program), Alice S. Horning (director, Freshman Rhetoric Program), Sharon L. Howell, Cornelius J. Shine, Ronald A. Sudol

Associate professors: Wallis May Andersen, William W. Connellan, Rose M. Cooper, Barbara M. Hamilton, David L. Lau (director, Communication Program), Margaret B. Pigott, Roberta Schwartz

Assistant professors: Kellie Hay, Jennifer M. Heisler, Karen E. Strother-Jordan, Marshall W. Kitchens, Margaret K.Willard-Traub

Special instructors: Susan Baker, Anne Becker (supervisor, Internships), Scott L. Crabill, Katherine L. Dahlstrom, Bernadette Dickerson, Thomas A. Discenna, Catherine Haar, Margaret L. Kurzman, Jeanie F. Robertson

Visiting special instructor: Catherine Breidanbach

Lecturers in rhetoric: David Colonne, Carole Crum, Catherine Daligga, Susan Drapeau, Carl Dull, Laura Duprey, Paul Gelinas, Glen Harris, Clark Iverson, Kasia Kietlinska, Andrew Kos, Robert Lamphear, Kathleen Lawson, Frank Lepkowski, Sabahat Masood, Catherine McQueen, Sharmila Mukerjee, Edward Nebel, Arthur Orme, Deborah Peterson, Anna Mae Powell, Leba Rautbort, Laura Redmond, Rebecca Roberts, William Rouster, Bethany Shepherd, John Simecek, Kathy Skomski, Carole Trupiano, Edward Wolff, Sherry Wynn, Helen Zucker

Lecturers in communication: Marsha Alfafara, Theresa Beamon, Scott Burke, Lisa Campbell, T. Quinn Clarke, Randolph Cullen, Caroline Dunlap, Gene Fogel, Heather Haughey, Beth Heyart, Laurel Humphreys, Carol Anne Ketelsen, Michael Lewis, Deborah Marsden, Reginald McCloud, Janet McKenney, Tushar Oza, Robert Parent, Jill Putman, Teri Reuter, Aileen Sundstrom, Beth Talbert, Kristina Trevarrow

Lecturers in journalism: Mark Benner, Lori Braiser, Dan Ewald, Holly Gilbert, Joe Grimm, Sharon Lemieux, Kim Madeleine, L. Null, Louise O. Piechura, John Rokicki, Sally Tato, T. 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.







232 RHETORIC, COMMUNICATION AND JOURNALISM (College of Arts and Sciences)

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 rhetoric program is designed to help students acquire the writing, reading and thinking skills necessary to perform college-level academic work. While the emphasis in composition courses is on coherent and effective writing, other modes of written communication, as well as library search techniques, research and annotation, are included in the writing curricula. In addition, the program offers courses in reading, study skills and tutorial instruction.

To fulfill Oakland University's graduation requirement of writing proficiency, 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 *Writing Proficiency* 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 Oakland University writing proficiency requirement.

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 writing proficiency requirement. Prerequisite: Placement by portfolio review by faculty, successful completion of RHT 150, or transfer of

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 314 Writing Project Programs (2 or 4)

In-service programs for teachers in individual school districts, particularly those conducted on-site within those districts. May be repeated for up to 4 credits under different subtitles. Students cannot receive credit for both RHT 314 and 315.

Prerequisite: Writing proficiency and permission of instructor.

RHT 315 Summer Workshop (2 or 4)

Concentrated four-week workshop on topics of interest to teachers. Meadow Brook Writing Project. May be repeated for up to 4 credits under different subtitles. Students cannot receive credit for both RHT 314 and 315.

Prerequisite: Writing proficiency and permission of instructor.

RHT 316 Advanced Workshop (1, 2 or 4)

In-depth study of topics and issues generated by previous participation in National Writing Project courses. May be repeated for up to 8 credits under different subtitles.

Prerequisite: Participation as a Fellow in the National Writing Project, RHT 314, or permission of instructor.





pg. 231-243 233 4/18/02, 2:46 PM



234 RHETORIC, COMMUNICATION AND JOURNALISM (College of Arts and Sciences)

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.

Prerequisite: Completion of the writing proficiency requirement.

Recommended: A grade of 3.0 or better in RHT 160 or its equivalent.

RHT 334 Advanced Writing: 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.

Prerequisite: Satisfaction of university writing requirement.

RHT 335 Writing for Human Services Professionals (4)

Development of analytical and collaborative writing skills for human services and training and development professionals. Emphasis on written analysis in a variety of forms including letters, memos, problem statements and proposals among others. Experience in writing individually and cooperatively. Class will include writing workshops and group discussions.

Prerequisite: Satisfaction of university writing requirement and junior standing.

Corequisite: RHT 104 if recommended by instructor.

RHT 370 Special Topics (2 or 4)

Special topics in composition and rhetoric. May be repeated under different subtitles.

Prerequisite: Satisfaction of university writing 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: Satisfaction of university writing 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 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 or industry. May be repeated once in a different setting.

Prerequisite: ENG 382 or RHT 335, and three other 300-400 level RHT courses, 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.





pg. 231-243 234 4/18/02, 2:46 PM



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
- At least 8 credits from the Interpersonal Discourse group: COM 202, 207, 304, 305, 310, 327, 360, 402, 403
- 3. At least 8 credits from the Public Discourse group: COM 220, 280, 285, 301, 307, 308, 311, 314, 318, 371, 373, 376, 377, 381, 382
- 4. At least 8 elective credits in COM courses
- 5. COM 399
- 6. Corequisites as follows:
 - a. Language (choose one from the following):
 - 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.

pg. 231-243









RHETORIC, COMMUNICATION AND JOURNALISM (College of Arts and Sciences)

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 AMESLAN, nonverbal communication, body and facial expression integrated with a basic sign vocabulary, a survey of the various sign systems, and an examination of the psychological, cultural and linguistic aspects of the deaf community.

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 language.

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 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)

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

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 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.







238 RHETORIC, COMMUNICATION AND JOURNALISM (College of Arts and Sciences)

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 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)

Students will learn the relationships among culture, communication and perception, and how these relationships are manifested in our daily interactions among people who are ethnically, racially and sexually different from us. Students will also learn the appropriate communication skills necessary to minimize misunderstanding in intercultural encounters. Satisfies the university ethnic diversity requirement. Prerequisite: Junior standing.

COM 399 Field Experience in Communication (4)

Field experience, with faculty supervision, that incorporates 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 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 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.

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:

- RHT 150 and 160 (or otherwise satisfy the writing proficiency requirement) and IRN 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:

- 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)
- 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.





pg. 231-243 239 4/18/02, 2:46 PM



240 RHETORIC, COMMUNICATION AND JOURNALISM (College of Arts and Sciences)

Requirements for a secondary teaching minor in journalism

To earn a secondary teaching minor in journalism, students must complete 24 credits in JRN courses including:

- 1. JRN 200, 300, 403 and 405
- 2. Plus eight credits from the following: JRN 310, 312, 320, 330, 410, 411 or 440.

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*.

IRN 190 Iournalistic 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.





pg. 231-243 240 4/18/02, 2:46 PM



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 Advanced Broadcasting (4)

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

Prerequisite: JRN 332.

JRN 340 Introduction to Advertising (4)

Advertising in print and electronic media from the standpoint of marketing, its social and legal environment, and strategy decisions in the profession. Prerequisite: JRN 200.

JRN 341 The Advertising Medium (4)

Further study of the advertising industry, including trends, design, marketing strategy and the technical problems of planning a product campaign.

Prerequisite: JRN 340.

JRN 342 Case Studies in Advertising (4)

The study of actual case histories of various companies and projects as well as the analysis of problems within a market. An assigned case study is required.

Prerequisite: JRN 340 and 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.





pg. 231-243 241 4/18/02, 2:46 PM



242 RHETORIC, COMMUNICATION AND JOURNALISM (College of Arts and Sciences)

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 (2 or 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.

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.





pg. 231-243 242 4/18/02, 2:46 PM





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.





pg. 231-243 243 4/18/02, 2:46 PM



ANTHROPOLOGY

518 VARNER HALL

(248) 370-2420

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Chairperson: David R. Maines

Professors emeriti: Harry Gold, Nahum Z. Medalia, Jesse R. Pitts, Jacqueline R. Scherer

Professors: Peter J. Bertocci, Judith K. Brown, James Dow, David R. Maines, Gary Shepherd

Associate professors: Kevin E. Early, Albert J. Meehan, Terri L. Orbuch, Cynthia Schellenbach, Suzanne M. Spencer-Wood, Richard B. Stamps

Assistant professors: Abdi Kusow, Linda Morrison, Lynetta M. Mosby, Joanne E. Reger

Adjunct associate professor: Michael D. Stafford

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 including the following:

- 1. SOC 100, 202, 204, 400
- 2. One anthropology course
- 3. 20 additional credits in sociology (4 of which may be taken in anthropology)
- 4. A total of 20 credits at the 300-400 level.

*No more than 8 credits counted toward the major may be taken in AN/SOC 190, 392, 399 or 480.





pg. 244-254 244 4/18/02, 2:47 PM



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

To earn a Bachelor of Arts with a major in anthropology,* students must complete a minimum of 40 credits including the following:

- 1. AN 101, 102
- 2. SOC 202
- 3. One of the following: AN 302 or AN 383
- 4. AN/SOC 400
- 5. 20 additional credits in anthropology (4 of which may be taken in sociology; AN 101 or 102 may be substituted for a prerequisite of SOC 100).
- 6. LIN 301 may be substituted for one anthropology elective course.

*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, 204
- 2. AN 101, 102
- 3. SOC or AN 400.

*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, 204, 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.





pg. 244-254 245 4/18/02, 2:47 PM



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.

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, ethnic 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 303 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 social science.

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 social science. Satisfies the university ethnic diversity requirement.





pg. 244-254 246 4/18/02, 2:47 PM



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.

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 social science.

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 social science.

Prerequisite: Junior standing or permission of instructor.

AN 308 Native American Art (4)

 $Identical\ with\ AH\ 308.\ Satisfies\ the\ university\ ethnic\ diversity\ requirement.$

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.

Law and Society (4)

Identical with SOC 320.

Prerequisite: SOC 100 or AN 102.

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 ethnic diversity requirement.

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 or HBS 200.

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.

Peoples and Cultures of India (4) AN 361

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.

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 102.

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 ethnic diversity requirement.

AN 375 Language and Culture (4)

Identical with ALS 375. Satisfies the university ethnic diversity requirement.

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 ethnic diversity requirement.

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: AÑ 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 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: 16 credits in anthropology, of which at least 8 must be at the 300/400 level, and permission of instructor.

AN 400 Theories of Society and Culture (4)

The major theoretical foundations of modern sociology. Identical with SOC 400. Prerequisite: AN 102 or SOC 100.

AN 401 Social Anthropology (4)

Examines social structure and social organization in anthropological perspective. Entails the study of





pg. 244-254 249 4/18/02, 2:47 PM



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 $\overline{\text{c}}$ ultural 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 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 social science. Also satisfies the university ethnic diversity requirement.

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. Strongly recommended as prerequisite for SOC 204.

SOC 204 Using Computers in Social Research (4)

This laboratory course provides students with hands-on experience in computing activity, including mainframe and microcomputers, and is designed to show how computers are used in social research. Statistical software packages will be used. Recommended prerequisite: SOC 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 social science.

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 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





pg. 244-254 250 4/23/02, 1:05 PM



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 social justice and corrections 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.

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.

SOC 303 Social Statistics (4)

Interpretation of social data by quantification and statistical reasoning. Prerequisite: Two years of high school mathematics.

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.

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.

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 or AN 102.

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 240.

SOC 325 Drugs, Crime and the Criminal Justice System (4)

The sociology of drugs, crime and the criminal justice system. Focuses on symptoms of community crime,





pg. 244-254 251 4/18/02, 2:47 PM



criminalization, social control of alcohol/drugs, marginalization of drug users/abusers, legal issues and role of criminal justice system in crime control. Explores responses of policy makers, agents of social control and community agencies.

Prerequisite: SOC 100.

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.

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.

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.

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. Satisfies the university ethnic diversity requirement. Identical with AN 331. Prerequisite: SOC 100.

SOC 335 The Family (4)

A comparative and historical study of the family. Identical with WS 335. Prerequisite: SOC 100 or WS 200.

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 or WS 200.

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 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.

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.

SOC 350 The Sociology of Work (4)

A study of how high technology, computers, and a shift in the economic base of employment are transforming work in contemporary society, why this is happening, and the social, psychological, political and cultural impact of change in the workplace.

Prerequisite: SOC 100.

SOC 352 Women and Work (4)

A sociological study of women's domestic and labor market activity in historical context, with emphasis





pg. 244-254 252 4/18/02, 2:47 PM



on understanding the causes and consequences of sex segregation. Identical with WS 352. Prerequisite: SOC 100 or WS 200.

SOC 357 Industrial Sociology (4)

The relationship between industrial and business organizations and the community; the study of occupations, labor unions, informal work groups and the character of American occupational life. Prerequisite: SOC 100.

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.

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: Permission of 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: 16 credits in sociology, of which at least 8 must be at the 300/400 level, and permission of instructor.

SOC 400 Theories of Society and Culture (4)

The major theoretical foundations of modern sociology. Identical with AN 400. Prerequisite: SOC 100 or AN 102.

SOC 401 Survey and Interview Techniques (4)

Field interview techniques, questionnaire design, scaling and index construction, experimental and quasi-experimental designs, program evaluation techniques. Prerequisite: SOC 202, 204.

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.

SOC 403 Computer Packages in Social Science (4)

Principles of packaged programs, with practice in data editing and analysis with SPSS (Statistical Package for the Social Sciences) and BMDP. Comparative merits of different packages. Prerequisite: SOC 203 and 204 or equivalent.

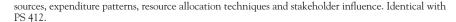
SOC 412 Police Budgeting and Personnel Management (4)

Finance and resource allocation methods used by local and state police agencies. Topics include funding





pg. 244-254 253 4/18/02, 2:47 PM



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 240.

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 240.

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.

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 and junior standing or above.

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: Arik Dvir (Biological Sciences)

Biochemistry Committee: Arthur W. Bull (Chemistry), Denis M. Callewaert (Chemistry), John D. Cowlishaw (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 or chemistry may be used to fulfill the requirements of a major in biochemistry.

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.
- 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.





pg. 255-256 255 4/18/02, 2:47 PM



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.

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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: Paul Tomboulian (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 three 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 IHS 403).





pg. 257-260 257 4/18/02, 2:48 PM



Recommended electives include BIO 301; BIO 325 or CHM 453; ENG 381 or 382; ENV 364, 368, 452, 461, 470, 486; PS 353; IHS 433, 451, 464.

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 or 331; ENV 484 or IHS 403; ENG 381 or 382.

Recommended electives include BIO 205, 375, 393, 423; CHM 234, 310, 412, 413; IHS 460; ENV 364, 368, 373, 384, 386, 388, 452, 484, 485, 486; PS 302, 350, 353, 355.

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 355.

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, 355. 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, 484 (or IHS 403) and 486.

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, 355; IHS 460.

Elective courses for the specialization must be approved by the program director.

Requirements for the liberal arts minor in environmental health

The following 19 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 natural science and technology.

Prerequisite: Sophomore standing.





pg. 257-260 258 4/18/02, 2:48 PM



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 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)

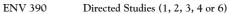
Theory and practice in the control of occupational health hazards, including personal protective equipment, noise, radiation, ventilation and engineering design.

Prerequisite: ENV 386 recommended.









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 physiochemical 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)

Assistant director: Joanne E. Reger (Sociology)

Women's Studies Executive Committee: Natalie Cole (English), Stacey Hahn (French), Barbara Hamilton (Rhetoric), Barbara Mabee (German), Mildred Merz (Kresge Library), Phyllis Rooney (Philosophy), Suzanne Rumph, Garry Shepherd (Sociology), Susan Wood (Art History)

Chief Advisers: Suzanne M. Spencer-Wood (Anthropology) and Joanne E. Reger (Sociology)

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; COM 327; EED/WS 481/CIL 561; HST/WS 322, 339, 361, 362, 375; PHL 305/WS 307; PS/WS 311; PSY/WS 374; SOC/WS 207, 335, 336, 352; WS 300, 301, 400, 401. Other women's studies cross-listed courses or approved women's studies electives may be substituted for the above listed courses, with the approval of the women's studies director.
- 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.

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.





pg. 261-263 261 4/18/02, 2:48 PM



Course Offerings

WS 200 Introduction to Women's Studies (4)

Core course provides an overview of women's studies theories and methods. Strictly interdisciplinary and comparative in approach, offering a general education in women's studies literature, history, economics and culture. May be used in lieu of one of the College of Arts and Sciences' distribution categories.

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.

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.

WS 307 Philosophy of Gender (4)

Indentical 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 and 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 and permission of instructor.

WS 322 Women in Modern America (4)

Identical with HST 322.

WS 335 The Family (4)

Identical with SOC 335.

WS 336 Sociology of Gender (4)

Identical with SOC 336.

Prerequisite: SOC 100 or WS 200.

WS 337 Women's Lives in Cross-Cultural Perspective (4)

Identical with AN 337.

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.







WS 352 Women and Work (4)

Identical with SOC 352.

WS 361 History of American Families (4)

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

Prerequisite: RHT 160.

WS 362 History of African-American Women (4)

This course satisfies the university ethnic diversity requirement.

Identical with HST 362.

Prerequisite: RHT 160.

WS 374 Psychology of Women (4)

Identical with PSY 374.

Prerequisite: RHT 160.

WS 375 Women in China, 1600-1900 (4)

Identical with HST 375.

Prerequisite: RHT 160.

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: 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 coordinator.

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: WS 320, 321or approval of women's studies director.

WS 481 Gender Socialization in Schools (4)

Identical with EED 481 and CIL 561.







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. 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: Jane D. Eberwein (English)

Committee: Sheldon L. Appleton (Political Science), James W. Dow (Anthropology), Todd A. Estes (History), Bruce J. Mann (English), Kathleen Pfeiffer (English), Janice Schimmelman (Art History), Richard B. Stamps (Anthropology), 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, 210, 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 American Culture (4)

An interdisciplinary approach to American culture through examination of several pervading themes (such as manifest destiny, the American dream of success, and tensions between individualism and community). May be used in lieu of one of the College of Arts and Sciences' distribution categories. Prerequisite: Writing proficiency (may be waived by the concentration coordinator in the case of foreign students). Satisfies the university ethnic diversity requirement.

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), William E. Bezdek (Sociology), 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:

- 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
- 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: Gottfried Brieger (Chemistry), James W. Dow (Anthropology), Suzanne M. Spencer-Wood, 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 are 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)





pg. 264-275 265 4/18/02, 2:49 PM



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 and PHY 107.

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: Subramaniam Ganesan (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: Albert J. Meehan (Sociology)

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
- 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 SOC 430.

Students are strongly advised to take SOC 240 at the beginning of their concentration.

SOC 430, Internship in Criminal Justice, is designed to give students practical experience in the criminal justice or legal system. The student's particular interests guide the internship selection process. An internship usually involves work in an agency for 20 hours per week 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.





pg. 264-275 266 4/18/02, 2:49 PM



Concentration in Environmental Studies

Coordinator: Paul Tomboulian (Chemistry)

The concentration in environmental studies introduces students to the newer interdisciplinary perspectives needed to address today's environmental problems. Short-and 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 355. 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

Coordinator: Brian F. Murphy (English)

Committee: Bonnie Abiko (Art History), Peter J. Bertocci (Anthropology), Andrea Eis (Art History), Robert T. Eberwein (English)

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 and COM 303.

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.





pg. 264-275 267 4/18/02, 2:49 PM



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 arts and the university ethnic diversity requirement.

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 since 1959 including such New Wave directors as Truffaut and Godard, and major artists such as Bergman, Kubrick.

CIN 303 History of Film: Into the 21st Century (4)

A study of developments in film since the 1980s. Topics include Hollywood cinema, independent film-making, experimental films, third world cinema and various national themes, as well as such major artists as Campion and Lee.

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: Nicole Buffard-O'Shea (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.

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*.

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*





pg. 264-275 268 4/18/02, 2:49 PM



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 Michigan Studies

Coordinator: Richard B. Stamps (Anthropology)

Committee: Gottfried Brieger (Chemistry), John B. Cameron (Art History)

The concentration in Michigan studies is an integrated program of courses that provides both a broad introduction to and a focused interdisciplinary study of Michigan. Each student is required to take MC 100 "Life in Michigan," which serves to integrate the various disciplinary offerings.

The concentration requires completion of a minimum of 26 credits, including MC 100, to be selected from the following course offerings. No more than 8 credits from the student's major may be counted toward the concentration. Students wishing to enroll in the Michigan studies concentration should file a minor and concentration authorization form with the 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.

MC 100 Life in Michigan (2)

An introduction to Michigan history and politics, fine art and archaeology, geology and environment, flora and fauna, climatology, and industry and economic development.

Students will select the remaining 24 credits from the following courses (4 credits each, except for ENV 373, 3 credits).

AN 399 Fiel BIO 373 Fiel ENV 373 Wa HST 302 Am HST 399 Fiel PS 305 Pol: PS 307 Star	thods in Anthropological Archaeology d Experience in Anthropology d Botany ter Resources (3) terican Labor History d Experience in History itics of the Local Community tee Politics
PS 458 Pub	lic Affairs Internship





pg. 264-275 269 4/18/02, 2:49 PM



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 the advisory committee 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.





pg. 264-275 270 4/18/02, 2:49 PM



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 a least three of the following five fields (16 credits):

Art AH 302, 320, 322, 326

History HST 324, 325, 327, REL 300

Literature ENG 312, ENG 305/REL 311, REL 302
Philosophy PHL 204, 205, PHL/REL 325, PHL/REL 350

Social Science PSY 445 (only when special topic is religion), 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 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.

REL 311 The Bible as Literature (4)

Identical with ENG 305. Satisfies the university general education requirement in literature.

REL 325 Philosophy of Religion (4)

Identical with PHL 325.





pg. 264-275 271 4/18/02, 2:49 PM



REL 350 Philosophies and Religions of Asia (4)

Identical with PHL 350.

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, 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, regardless of major. 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 303 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 Heath 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
- 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.

- 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: COM 207, ENG 380, PHL 102 and 103, RHT 380.
- Oral communication. The following courses are recommended: COM 201, 220, 301, 318 and THA 110.





pg. 264-275 273 4/18/02, 2:49 PM



 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, 343, 440, 441; 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 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: William A. Macauley (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

- 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.
- 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 147, 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 Sciences (4)

Identical with PHY 106. Satisfies the university general education requirement in the natural sciences.

GEO 107 Physical Geography (4)

Identical with PHY 107. Satisfies the university general education requirement in the natural sciences.

GEO 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. Identical with AN 200 and IS 200.

GEO 210 Introduction to China (4)

 $Identical\ with\ IS\ 210.\ Satisfies\ the\ university\ general\ education\ requirement\ in\ international\ studies.$

GEO 220 Introduction to Japan (4)

Identical with IS 220. Satisfies the university general education requirement in international studies.

GEO 230 Introduction to Africa (4)

Identical with IS 230. Satisfies the university general education requirement in international studies.

GEO 250 Introduction to Latin America (4)

Identical with IS 250. Satisfies the university general education requirement in international studies.

GEO 270 Introduction to the Middle East (4)

Identical with IS 270. Satisfies the university general education requirement in international studies.







SCHOOL OF BUSINESS ADMINISTRATION

427 Elliott Hall (248) 370-3286 http://www.sba.oakland.edu Fax: (248) 370-4974

Dean: John C. Gardner, Sr.

Office of the Dean: Eileen Peacock, associate dean; Marcia Lichty, assistant dean; Moira Fracassa, coordinator of undergraduate academic advising; Stephanie Lee, SBA site administrator/assessment assistant; Darla M. Null, coordinator, graduate business programs; Lorin Wright, undergraduate academic adviser

Department chairs: T.J. Wharton, decision and information sciences; Miron Stano, economics; Gadis Dillon, accounting and finance; Mukesh Bhargava, management and marketing

Distinguished professor emeritus: Karl D. Gregory

Professor emeritus: Sid Mittra, Lefterios Borsas, John Tower

Professors: Lizabeth A. Barclay, Mohammed S. Bazaz, Joseph H. Callaghan, Gadis J. Dillon, David P. Doane, Louis Esposito, Edward J. Farragher, Augustin K. Fosu, John C. Gardner, Ronald M. Horwitz, Oded Izraeli, Thomas W. Lauer, Donald Mayer, J. Austin Murphy, Kevin J. Murphy, Ravi Parameswaran, Eileen Peacock, Anandi P. Sahu, Howard S. Schwartz, Miron Stano, Mohan R. Tanniru

Associate professors: Mukesh Bhargava, Addington Coppin, Eugene B. Fliedner, Sherman T. Folland, John W. Henke, John Kim, Kieran Mathieson, Nivedita Mukherji, Kevin Nathan, Mohinder Parkash, Sandra H. Pelfrey, R. Mohan Pisharodi, Vijayan Sugumaran, Ronald L. Tracy, T.J. Wharton, Floyd G. Willoughby, Kenneth M. York

Assistant professors: Henry Aigbedo, Joann Bangs, Vincent Carter, Xaiodong Deng, A.J. Cataldo, Yong-Shik Lee, Karen Markel, Matej Blasko, Catherine Tyler, Mark W. Isken, Cynthia E. Miree, Balaji Rajagopalan, Arline Savage, Srinarayan Sharma, Mark Simon, Kristina Setzekorn

Special instructor: David Sidaway

Applied Technology in Business Program: Mohan R. Tanniru, director

Center for Executive and Continuing Education: Sarah Serra Prucha, director, continuing education; Lori Crose, assistant director, continuing education

Development Director: Tracy S. Utech

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 faculty on several projects and provide consultation on goals and objectives, curricula designs and research programs.

The board members are:

Michael W. Grieves, Chairman, Interactive Frontiers; Chairman, Board of Visitors Joseph B. Anderson, Jr., Chair & CEO, Chivas Industries LLC John Bamberger, CEO, Analysts International-Sequoia Services Group Paul H. Campbell, CEO, Hutchinson FTS, Inc.





pg. 276-306 276 4/18/02, 2:50 PM



Ralph A. Caponigro, President, Caponigro Financial Counselors
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A. Jacqueline Dout, President, JJB Enterprises, Inc.
Stuart D. Doyle, President, EDS Delphi, Electronic Data Systems
Gerald L. Elson, Vice President and General Manager, GM Vehicle Operations
John C. Gardner, Dean, School of Business Administration, Oakland University
Glenn C. Gouldey, Vice President, Eaton Corporation
Dale Greene, Executive Vice President, Comerica Incorporated, Corporate Banking Division
Danette E. Gregory, Co-Founder and Technology Director, Dynamic Business Strategies, Inc.
Karen Healy, Vice President, Corporate Affairs and Facilities, Delphi Automotive Systems,
World Headquarters
Gregory C. Jamian, President and Chief Executive Officer, Americare Medical, Inc.

Gregory C. Jamian, President and Chief Executive Officer, Americare Medical, Inc. Susan P. Kampe, Director, Enterprise Process and IT Integration, Ford Motor Company Cleve Killingsworth, President and Chief Executive Officer, Health Alliance Plan William Kroger, Vice President, Human Resources, The Budd Company Roman T. Kulich, President and Chief Executive Officer, Molina Healthcare of Michigan Jacqueline Lewis-Kemp, Chief Executive Officer, Lewis Metal Stamping John G. Marshall, Vice President, ALCOS

Thomas McAlear, Chief Operating Officer, DaimlerChrysler Services, North America LLC Kenneth J. McCarter, Vice President, Union Relations and Security Operations, DaimlerChrysler Craig B. Parr, Executive Vice President, EdgeTek Tool and Mold

William Sandy, former Chief Executive Officer, Sandy Corporation

John Savio, Vice President, Branch Operations, Oakland University Branch, Michigan State University Federal Credit Union

Rebecca R. Smith, Vice President, Fifth Third Bank

Dennis R. Toffolo, Director, Community & Economic Development, Oakland County Joseph Tori

Peter Van Hull, Partner (retired), Andersen Consulting

Ted D. Wasson, President and Chief Operating Officer, William Beaumont Hospital Corporation Tommi A. White, Chief Operating Officer, Compuware Corporation James R. Wilbert, Managing Partner, PricewaterhouseCoopers LLP

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 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) 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:

- Bachelor of Science with majors in accounting, 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).
- Minors in accounting, accounting information systems, 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 School of Business Administration 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 School of Business Administration offers the 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, health care management, 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.

The School of Business Administration offers the Master of Accounting degree. Undergraduate students majoring in accounting should contact the Office of Graduate Business Programs (432 Elliott Hall, 248-370-3287) for detailed information on admissibility into the program.

The School of Business Administration 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 effectively manage information technology in support of their decision-making. It is also intended to provide information systems professionals with knowledge on 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.

The Post Master Certificate programs are offered to those who hold an MBA or similar degree and wish to earn a specialization beyond the master's degree. Certificates are available in accounting, business economics, entrepreneurship, finance, human resource management, international business, management information systems, marketing and production/operations management.

Oakland University undergraduates working on majors other than those in business administration may start the MBA program while completing their undergraduate degree. To be eligible, students should have a grade point average in the top 25 percent of students in their major. Students may apply to the program after they have completed 80 undergraduate credits. For more information, see the Oakland University Graduate Catalog.







The School of Business Administration 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 OU MBA, the Master of Accounting program, the post master certificate programs, accreditation, the undergraduate programs, SBA courses and SBA faculty, visit the School's Web site at: 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 2001 semester. Students enrolled prior to fall 2001 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 in the School of Business Administration (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 Business Administration 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 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, ethnic diversity, writing proficiency and 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:

- Complete at least 128 credits, including any free electives needed to reach this total.
- 2. Complete the writing proficiency requirement by passing RHT 160, Composition II, with a grade of 2.0 or better, or through one of the alternative methods discussed under *Undergraduate degree requirements*.
- Complete the university general education requirement as detailed in the general education section below and also under *Undergraduate degree requirements*.
- 4. Complete the university ethnic diversity requirement as detailed in the ethnic diversity section below and under *Undergraduate degree requirements*.
- 5. Complete the precore requirements as listed below and be admitted to major standing in business administration or economics as detailed in the *Admission to major standing* section below.
- Complete the core program and the requirements of one of the majors in the School of Business Administration.
- 7. Complete at least 32 credits at the 300 level or above.
- 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 250. Of these 31 credits, at least eight credits must
 be in the student's major.





pg. 276-306 279 4/18/02, 2:50 PM



- Take the last eight credits needed to complete baccalaureate requirements at Oakland University.
- 10. 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.

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 more specific 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 professional advisers. The 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*). These requirements may be summarized as one course from the approved lists in each of the following categories: arts, literature, language, Western civilization, international studies, and natural science and technology. For School of Business Administration students, the mathematics, logic and computer science general education category is satisfied by the school's precore mathematics requirements. In addition, for all SBA majors **except economics majors**, the social science general education requirement is satisfied by the school's precore economics requirement. School of Business Administration 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 requirement.

Ethnic diversity requirement

Students in the School of Business Administration must satisfy the university ethnic diversity requirement (see *Undergraduate degree requirements*). The SBA offers four courses that satisfy the ethnic diversity requirement: ECN 201, 338; MKT 404 and ORG 434.

Writing proficiency and precore requirements

As preparation for the various majors of the business administration program, students must earn a grade of 2.0 or better in each of the following courses in writing, speech communication, mathematics, computer use, economics, accounting and statistics.

The required precore courses are:

RHT 150-160	Composition I-II (or complete the writing proficiency	
	requirement in another manner)	0-8
COM 201	Public Speaking	
or COM 202	Group Dynamics and Communication	4





pg. 276-306 280 4/18/02, 2:50 PM



	MTH 011-012	Elementary-Intermediate Algebra (if required, based on	0
		math placement)	O
*	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	
	or CSE 125	Introduction to Computer Use	4
	ECN 200	Principles of Macroeconomics	
	and ECN 201	Principles of Microeconomics	
	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 250	Statistical Methods for Business	6
	-	3	36-46

* 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 successful completion of the 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, ENG 382, FIN 322, MIS 300, MKT 302, ORG 330, POM 343 and all ECN courses.

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 proficiency requirement;
- 3. a minimum grade point average of 2.60 in all courses taken 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 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 proficiency requirements during fall semester and in January for those expecting to complete requirements during winter, spring, or summer semesters.

Any grade earned in a major standing course 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:

ENG 382	Business Writing (or ENG 380 or 381)	4
ECN 303	Managerial Economics	3
MKT 302	Marketing	4





pg. 276-306 281 4/18/02, 2:50 PM



ORG 330	Introduction to Organizational Behavior	3
POM 343	Operations Management	4
FIN 322	Managerial Finance I	4
MIS 300	Management Information Systems	3
*MGT 350	Legal Environment of Business	3
*ORG 331	Introduction to the Management of Human Resources	3
*MGT 435	Management Strategies and Policies	4
		35

*ORG 331, MGT 350 and MGT 435 require major standing. MGT 435 is a course that integrates the material in the core program and may be taken only after students have completed the rest of the core program.

Major programs

Students continue their program by taking 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 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: David D. Sidaway

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 enroll in subsequent accounting courses.

Required precore courses	:	Credits
ACC 200	Introductory Financial Accounting	4
ACC 210	Managerial and Cost Accounting I	4
		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	s 3
ACC 320	Managerial and Cost Accounting II	3
		12
Flectives — Chance 12 c	radite.	

Electives — Choose 12 credits:

ACC 301 Financial Reporting and Analysis (3)





pg. 276-306 282 4/18/02, 2:50 PM



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 417	International Accounting (3)
ACC 419	Accounting Information Systems: Design and Construction (3)
ACC 420	Audit and Control of Information Systems (3)
ACC 421	Federal Income Tax II (3)
ACC 450	Contemporary Professional Issues in Accounting (3)
ACC 480	Special Topics in Accounting (3) 12
	32

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 33 credits of accounting and related course work. Undergraduate students will be able to apply to enter the program after completing ACC 310. With the completion of 161 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 planning to sit for the CPA Examination should be aware that recent legislation in Michigan (and most other states) will require 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.

Requirements for the major in finance

Major adviser: Edward J. Farragher

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 22-23 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 enroll in any subsequent finance course.

Required in the core: FIN 322	Managerial Finance I	Credits 4
Required major courses:		
ACC 301	Financial Reporting and Analysis*	3
FIN 416	Investment Analysis	3
FIN 418	Financial Institutions and Capital Markets	3

^{*}In lieu of ACC 301, students may substitute both ACC 310 and 311.

Electives — Choose three courses fro	n the following (some may require additional
prerequisites):**	

rerequisites).	
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)

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**ACC 320 (3) or ECN 321 (3) may be substituted for one finance elective. Students interested in a career in banking are encouraged to take ECN 321 as a major 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 School of Business Administration (courses beginning with ACC, ECN, FIN, MGT, MIS, MKT, ORG, POM or QMM) and must be chosen from courses numbered 300 or higher; at least two courses 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

Required in the core:

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 26 credits as specified below, with a grade of 2.0 or better in each major course.

required in the core.		Cicuito
ORG 330	Introduction to Organizational Behavior	3
ORG 331	Introduction to the Management of Human Resources	3
Required major courses:		
ORG 430	Organizational Research Methods	4
ORG 433	Labor/Management Relations	4
ORG 434	Advanced Human Resources Management	4
Electives — Choose two	courses, at least one of which must be a 400-level ORG	course:
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)	7-8
		25-26





Credits

pg. 276-306 284 4/18/02, 2:50 PM



Requirements for the major in management information systems

Major adviser: T.J. Wharton

The major in management information systems specifies a set of courses that will give students more facility with computer languages, 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.

Required in the pre-core and core:		Credits
MIS 200	Personal Productivity with Information Technology	4
or CSE 125	Introduction to Computer Use	
MIS 300	Management Information Systems	3
Required major cou	irses:	
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	4
	e three courses, at least one of which is MIS 405, 407, 416	or 426:
	A 1 · (O 1 C · (2)	





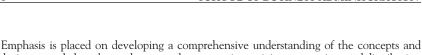
Electives — Cho	oose three courses, at least one of which is MIS 405, 407, 416 or 426:
MIS 400	Analysis of Complex Systems (3)
MIS 405	Business Data/Telecommunications (3)
MIS 407	Projects and Problem Solving (3)
MIS 416	Advanced Systems Analysis and Design (3)
MIS 420	Electronic Commerce (3)
MIS 421	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)
ACC 419	Accounting Information Systems: Design and Construction (3)
CSE 220	Computer-based Information Systems I (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.

pg. 276-306 285 4/18/02, 2:50 PM



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: MKT 302	Marketing	Credits 4
Required major courses	:	
MKT 353	Marketing Management	4
MKT 404	Consumer Behavior	4
MKT 405	Marketing Research	4
Electives — Choose two	courses:	
MKT 406	Promotional Strategy (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: Miron Stano

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, businesses, 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 business, 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.

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 allows a student to earn a degree in business while providing educational and career flexibility not offered by other business degrees. 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 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 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:

English composition:	Credits	
RHT 150-160	Composition I-II (or complete the writing	0-8
	proficiency requirement in another manner)	
ENG 382	Business Writing (or ENG 380 or 381)	4
		4-12

General education requirement:

28

See *Undergraduate degree requirements*. The math, logic and computer science field category will be satisfied by cognate courses. For economics majors, the social science field category cannot be satisfied with an economics course.

Ethnic diversity requirement:

See undergraduate degree requirements.

Cognate courses:

ognate courses.		
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	Introduction to Computer Use	
or MIS 200	Personal Productivity with Information Technology	4
	(or CSE 130 or 141)	
ACC 200	Introductory Financial Accounting	4
QMM 250	Statistical Methods for Business	6
FIN 322	Managerial Finance I	4
		26

Required courses:

ÉCN 200	Principles of Macroeconomics	
and ECN 201	Principles of Microeconomics	
or ECN 210	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	3
		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 490 may be counted as economic electives.







26-37 128

Transfer students must complete at least 32 credits at Oakland University, of which at least 16 credits must be offered by the School of Business Administration. Of these 16 credits, at least nine must be in the student's major.

Admission to major standing in economics

Admission to major standing in economics is required before a student may graduate. The minimum requirements for major standing are:

- 1. Student's admissibility to and retention in the university;
- 2. Completion of the writing proficiency requirement;
- 3. A minimum grade point average of 2.60 in all courses taken at Oakland University;
- 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 250; and
- Submission of an "Application for Major Standing."

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 them in order to graduate.

Minors

The School of Business Administration offers 12 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).

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 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, FIN, MGT, MIS, MKT, ORG, POM or QMM courses (excluding those noted above).

Any student enrolled in any major in the School of Business Administration may receive any minor offered by the school, other than in the student's major, except for the minors in accounting information systems, general business and applied technology in business. The minor in accounting information systems is not open to accounting majors. 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 who have been admitted into the ATIB program. Students not in a major within the School of Business Administration 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.





4/18/02 2:50 PM pg. 276-306



Minor in accounting

Coordinator: David D. Sidaway

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 accounting (ACC) courses. This minor is open to all students except accounting majors.

Minor in accounting information systems

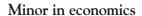
Coordinator: Joseph W. Callaghan

The minor in accounting information systems consists of a minimum of 21 credits and any prerequisites for these courses: ACC 200 and 210; ACC 420; ACC 318 or MIS 316; ACC 419 and MIS 304. This minor is open to all students except accounting majors.

Minor in applied technology in business (ATIB)

Coordinator: Mohan R. Tanniru

The minor in applied technology in business is a unique business minor. 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 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.



Coordinator: Miron Stano

The minor in economics consists of a minimum of 18-20 credits (depending on courses chosen) in economics courses including any prerequisites for these courses. A student must take both ECN 200 and 201 or ECN 210. The remainder of the 18-20 credit requirement can be fulfilled with any other 300- or 400-level economics (ECN) courses. This minor is open to all students except 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: Edward J. Farragher

The minor in finance consists of a minimum of the following 23 credits and any prerequisites for these courses: ACC 200, QMM 250, FIN 322 and nine additional credits in finance (FIN) courses (ACC 301 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: Kevin Nathan

The minor in general business consists of a minimum of 19-23 credits (depending on courses chosen), 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 School





pg. 276-306 289 4/18/02, 2:50 PM



of Business Administration. 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 School of Business Administration 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: Addington Coppin

The minor in international management consists of a minimum of 18 credits, described as follows, and any prerequisites for these courses: ECN 210 or both ECN 200 and 201, 373; MGT 423 and one course chosen from ACC 417, 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 18 credits in the following courses and any prerequisites for these courses: CSE 125 or MIS 200, CSE 130 or 141 or 220 or ACC 419; MIS 300, 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 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 19 credits, described as follows, and any prerequisites for these courses: CSE 130 or 141; QMM 250 or STA 226, and any three courses chosen from QMM 452, 440; POM 448; MIS 444; ECN 405; STA 323, 324. This minor is open to all majors.





pg. 276-306 290 4/18/02, 2:50 PM



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 the 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, especially those from outside the United States, 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.

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.

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.

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:

Student portfolios: Students are expected to maintain a portfolio of activities that includes grades in given courses, writing samples from various courses and descriptions of leadership, team, international and work experiences. Student portfolios are made available to recruiters at graduation.

Standard tests: Students are expected to 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.





pg. 276-306 291 4/18/02, 2:50 PM



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.

Additional Information

Cooperative education

Students in the School of Business Administration who want to combine relevant work experience with their college education are encouraged to participate in the university's cooperative education program. Co-op students alternate at least two four-month periods of paid, full-time work experience with four-month periods of full-time classwork. Students are placed in jobs in business, not-for-profit or governmental organizations similar to those held by recent Oakland University graduates. On occasion, unpaid internships that provide work experience also are available. Students interested in the co-op program should contact Experiential Education in the Department of Placement and Career Services (275 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 School of Business Administration 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—The International Association for Management Education. 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 School of Business Administration.

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 School of Business Administration. Selection is made by the faculty.

School of Business Administration awards/scholarships

Accounting Excellence Scholarship: This \$3,000 scholarship is awarded annually and honors students who achieve excellence as accounting majors. Applicants must have a 3.30 or better GPA and be involved in extracurricular or community activities.

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 Applied Technology in Business Program. 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





pg. 276-306 292 4/18/02, 2:50 PM



contribute to 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).

- 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 School of Business Administration 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.
- Dicron Tafralian Memorial Scholarship: This 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 School of Business Administration. This scholarship was established in memory of Dicron Tafralian, who served in administrative capacities at Oakland University for many years.
- **Dr. Wendell Schindele Scholarship:** This \$500 scholarship is awarded annually to an undergraduate accounting major. Candidates must have completed at least two accounting courses beyond ACC 210, at least 3.0 overall GPA, and at least a 3.0 GPA in accounting courses beyond ACC 210. Bilingual/foreign language ability and evidence of entrepreneurial spirit will enhance the application.
- **Fidelity Bank Scholarship:** 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.
- Follmer, Rudzewicz & Co., P.C. Scholarship: This \$1,000 scholarship is awarded annually to an undergraduate accounting major. Candidates must have at least junior standing, a 3.0 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.
- **Francis C. Amos SBA Alumni Scholarship:** This \$500 per semester scholarship is available for up to four semesters. This scholarship is open to juniors and seniors who have completed at least 59 credits and have School of Business Administration major standing. Students must maintain 3.40 GPA in SBA and 3.00 overall GPA.
- **Katke Invitational Automotive 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 tuition scholarship for the senior year will be awarded to the junior student who has the highest overall GPA in the School of Business Administration; \$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.
- School of Business 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 School of Business Administration major standing. Recipients must maintain 3.0 overall GPA and be full time students.





pg. 276-306 293 4/18/02, 2:50 PM



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

Volkswagon of America Corporate Leadership Scholarship Award: These \$1,000 scholar -ship 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 according to federal financial aid criteria.

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 School of Business Administration. These courses have major standing as a prerequisite, except for ACC 310, ENG 382, 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 (59-90 credits). Nonbusiness majors may elect 300- or 400-level courses if they meet the prerequisites (except for major standing). School of Business Administration students have priority over majors from outside the school when registering for these courses.

Students in majors other than those in the business administration program (i.e., accounting, finance, general management, human resources management, management information systems and marketing) are limited to no more than 25 percent of their total degree credits in business courses. This 25 percent maximum includes credits earned at Oakland University and all other colleges but excludes economics (ECN) courses, QMM 250 and 452.

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. MIS 200 or CSE 125 recommended. 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 200, 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 200, 210 and junior status. MIS 200 or CSE 125 recommended.









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.

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.

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 250, ACC 311 or 301, and major standing.

Government and Not-for-Profit Accounting (3) ACC 412

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 301, and major standing.

Federal Income Taxation (3)

To acquaint students with the concepts of federal taxation. The essential logic underlying the federal tax laws will be explored, with emphasis placed on the tax treatment of individual taxpayers. The course focuses on tax theory and law rather than on the preparation of tax returns. Prerequisite: ACC 310 or 301, and major standing.

International Accounting (3)

The study of financial accounting, reporting and disclosure in different nations. Major topics include similarities and differences among country standards, efforts for worldwide harmonization, foreign currency, geographical segment reporting, inflation accounting, taxation and transfer pricing. Prerequisite: ACC 311 and major standing.

Accounting Information Systems: Design and Construction (3) ACC 419

Design and construction of computer information systems using an IE technology and a MOTE approach. Design will be implemented using COOL-Gen TM , Microsoft C++ TM , and Oracle TM . The course is projectbased to allow students to participate in the full systems development life cycle. Prerequisite: ACC 318 or MIS 316 and major standing.

Audit and Control of Information Systems (3)

Extends the materials covered in ACC 318 and MIS 316 to the audit and control of information systems. Topics include risks, controls, auditing objectives, and fraud detection techniques related to information systems. Students will develop software to perform audit tests and fraud prevention/detection procedures. Prerequisite: ACC 318 or MIS 316 and major standing.

ACC 421 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.





pg. 276-306 4/18/02 2:50 PM



ACC 450 Professional Issues in Accounting (3)

Addresses contemporary issues that affect accountants. Includes regulation of accounting and accountants; accounting standard-setting; admission to professional status; professional ethics; professional liability; and the impact of technology.

Prerequisite: ACC 311 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 311 and major standing.

ACC 490 Independent Study (2, 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.

Prerequisite: An overall grade point average of 3.00 or better, major standing and an approved contract prior to registration.

APPLIED TECHNOLOGY IN BUSINESS

ATB 306 Business and Information Technology Foundations (3)

Role of information technology in solving business problems, with a special focus on process analysis/ redesign, enterprise-wide data modeling and group decision making. Students work as teams to solve business problems using a variety of data base/spreadsheet tools and communicate their decisions (oral and written) to corporate sponsors periodically.

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 social science. (Offered every fall and winter.)

Prerequisite: None.





pg. 276-306 296 4/18/02, 2:50 PM



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. Satisfies the university general education requirement in social science. (Generally offered every semester and term.)

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. Satisfies the university ethnic diversity requirement. (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 social science. (Generally offered fall semester.)

Prerequisite: High school algebra, sophomore status and a GPA of 3.00 or better.

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 210, and MTH 122, or permission of instructor.

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 210, and MTH 122, or permission of instructor.

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 or permission of instructor.

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 201 or 210.

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 201 or 210.

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.





pg. 276-306 297 4/18/02, 2:50 PM



ECN 326 International Economic Development (3)

ting 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.

ECN 333 History of Economic Thought (3)

sis will be placed on the development of economics as intellectual history. (Offered with sufficient student demand.)

Prerequisite: ECN 150 or 200 or 210.

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. Satisfies the university ethnic diversity requirement. (Generally offered fall semester of odd years.)

Prerequisite: ECN 150 or ECN 201 or ECN 210.

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.

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.

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.

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 210 or permission of instructor.

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 210 or permission of instructor.

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 250 and 303, or permission of instructor.





pg. 276-306 298 4/18/02, 2:50 PM



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 winter semester of even years.)

Prerequisite: QMM 250 and ECN 303, or permission of instructor.

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 and QMM 250, or permission of instructor.

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 fall semester of odd years.*) Prerequisites: ECN 302 or permission of instructor.

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 250 and ECN 303, or permission of instructor.

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.

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 grade point average of 3.00 or better, major standing 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 200, 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 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, 416; ACC 301 and major standing.

FIN 490 Independent Study (2, 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 grade point average of 3.00 or better, major standing and an approved contract prior to registration.

MANAGEMENT

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 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, completion of business core program and senior status. 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: ORG 331 and 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 grade point average of 3.00 or better, major standing and an approved contract prior to registration.





pg. 276-306 300 4/18/02, 2:50 PM



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)

Examination of information systems from the perspective of the manager as a user. Survey of the behavioral, organizational and systems theory foundations; the systems development process; and the integration of data processing, database management, decision support systems, office automation and telecommunications across functional areas. Includes lab exercises.

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 mainframe DBMS packages.

Prerequisite: A high-level programming language, MIS 300 and major standing.

MIS 316 Systems Analysis (4)

Theory and practice of designing 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 141 or 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 and 316 and major standing.

MIS 420 Electronic Commerce (3)

This course provides students with an analytical and technical framework to understand the emerging 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.





pg. 276-306 301 4/18/02, 2:50 PM



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: CSE 130, 141 or 220 and major standing.

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: CSE 130 or equivalent 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 different solution architectures and their relative advantages and disadvantages. Several 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.

GUI Application Development (3)

Sophisticated graphical user interface (GUI) applications will be developed using Visual Basic, Powerbuilder or some other appropriate development tool. Course topics include the psychology of user interface design, developing client/server systems, GUI standards, event-driven programming models, single and multi-user interfaces and interacting with databases. Prerequisites: MIS 304 and MIS 316 and major standing.

Web Application Development (3)

The course studies the design, creation, and implementation of information systems using the technology of the World Wide Web, including HTML, client-side and server-side scripting languages, and databases. At the end of the course, students should be able to build complete Web-based systems, using technology chosen by the instructor.

Prerequisite: MIS 300 or instructor's permission and major standing.

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.

Simulation in Management (3)

Computer simulation models using GPSS or an equivalent simulation language, plus simulation exercises using standard programming languages. Implications of models and sensitivity analysis for forecasting, planning and decision making in the management environment are explored.

Prerequisite: CSE 130 or 141, MIS 300, knowledge of BASIC or FORTRAN and major standing.

Business Analysis and Modeling (3) **MIS 446**

This course focuses on the design and development of decision support systems. The emphasis is on enduser development of model and data based systems to support managerial decision-making using various software tools

Prerequisite: CSE 130, QMM 250, MIS 300 or instructor's permission and major standing.

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, 304 or 316, and major standing.





pg. 276-306 4/18/02 2:50 PM



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 grade point average 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 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. Satisfies the university ethnic diversity requirement.

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 250 and major standing.

MKT 406 Promotional Strategy (4)

A study of the promotional tools of advertising, public relations, sales and sales promotion. Emphasis on identifying the factors that become the basis for promotional decisions.

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.





pg. 276-306 303 4/18/02, 2:50 PM



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 grade point average 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 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. Satisfies the university ethnic diversity requirement.

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.





pg. 276-306 304 4/18/02, 2:50 PM



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 grade point average 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 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

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 grade point average of 3.00 or better, major standing and an approved contract prior to registration.

QUANTITATIVE METHODS

QMM 250 Statistical Methods for Business (6)

Statistical techniques useful in management and economic analysis. Emphasis on statistical description, hypothesis testing, statistical quality control, time series analysis, ANOVA, estimation and simple and multiple regression techniques. Includes extensive computer exercises.

Prerequisite: MTH 122 or 154, and CSE 125 or 130 or MIS 200.





pg. 276-306 305 4/18/02, 2:50 PM



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 250 or STA 226, ECN 303 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, multicolinearity, 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 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 grade point average of 3.00 or better, major standing and an approved contract prior to registration.







SCHOOL OF EDUCATION AND HUMAN SERVICES

415 Education Building

(248) 370-3050 Fax: (248) 370-4202

Dean: Mary L. Otto

Associate Deans: F. James Clatworthy, Dawn M. Pickard

Office of the Dean: Sandra K. Deng, adviser; Kim Forcier, adviser; Judith M. Hoppin, director, professional development; Vicky Hunt, assistant dean; Sherrill M. Karppinen, coordinator, field placements; Shannon L. Spann-Revels, PSA/Urban Partnerships; Deborah Weathers, coordinator, counseling practicum laboratory; James G. Woolcock, adviser

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

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, the Education Specialist in school administration, the Master of Arts in counseling, and the Master of Arts in Teaching in reading and language arts, and the Master of Education in three areas: early childhood; curriculum, instruction and leadership; and special education and the Master of Training and Development. For information on these programs, see the Oakland University Graduate Catalog.

Additional Services

Advising Office

The School of Education and Human Services (SEHS) Advising Office (363 Education Building, 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 Education Building, 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 Education Building, 248-370-3033 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.





pg. 307-330 307 4/18/02, 2:50 PM

Professional development staff also directs the operation of the Career Development Training Institute, an organization that provides consulting services, staff training and training materials 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, and a science, mathematics and technology summer day camp for children aged 3 to 8. 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 Education Building, 248-370-3124) provides teaching, research, consultation and public service activities for labor organizations and their members. It coordinates the Concentration in Labor 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 Education Building, 248-370-3060) is responsible for the placement of pre-service interns, elementary, secondary and music.

Educational Resources Laboratory

The Educational Resources Laboratory (350 Education Building, 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.





pg. 307-330 308 4/18/02, 2:50 PM



DEPARTMENT OF COUNSELING

491B Education Building

(248) 370-4185

Fax: (248) 370-4141

Chair: Luellen Ramey

Professor Emeritus: Howard Splete

Professor: Mary L. Otto

Associate professors: Thomas W. Blume, Elyce A. Cron, Robert S. Fink, Jane S. Goodman,

Luellen Ramey, Lynn Surrey

Assistant professors: James T. Hansen, Lisa D. Hawley

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 and School Counseling. A. Ph.D. program is offered with a focus on any of the above cognate areas.

cognate area

Course Offering

The department offers this selected course as warranted by student need and availability of faculty. 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 CURRICULUM, INSTRUCTION AND LEADERSHIP

480D Education Building

(248) 370-3070

Fax: (248) 370-4605

Chairperson: Eric J. Follo

Professors emeriti: James W. Hughes, Patrick J. Johnson

Professors: Eric J. Follo, Jacqueline I. Lougheed, Sandra P. Packard, Dyanne M. Tracy

Associate professors: Sarah L. Gibson, William G. Keane, Dawn M. Pickard, Julia B. Smith, Mary T. Stein, Robert A. Wiggins

Assistant professors: Karen Bolak, Helene A. Mills, Duane H. Moore, Carolyn O'Mahony, Richard Pontius

Visiting assistant professors: Brian Clark, S. Yvette Jenkins, James J. Rivard

Visiting instructors: Babette M. Benken, Nancy A. Melamed-Brown

Special instructor: Mary F. Zeppelin Adjunct professor: Asa Hillard

General Information

The Department of Curriculum, Instruction and Leadership 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.

The undergraduate elementary education program enables 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 teaching certificate.

Requirements for the Bachelor of Science degree with a major in elementary education

Advising: 363 Education Building, (248) 370-4182

Internet: http://www.oakland.edu/sehs/organi/depts/cil/eled.html

Pre-elementary education

Students who wish to pursue an elementary education major are admitted by the Admissions Office. Students so admitted 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 personnel in the SEHS Advising Office (363 Education Building, 248-370-4182).





pg. 307-330 310 4/18/02, 2:50 PM



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 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 and include all courses completed at Oakland University and all previous colleges at the time the student applies for candidacy. 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. Information on test registration is available from the SEHS Advising Office.
- 3. Complete the Oakland University writing proficiency requirement.

To obtain candidacy in elementary education, students present a copy of the MTTC Basic Skills score report to the SEHS Advising Center. 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. Personnel in the SEHS Advising Office provide academic advice for elementary education candidates.

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 all general education requirements.
- 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).
- 4. 2.0 minimum grade in each general education course.
- 5. 2.5 minimum grade in each course for teaching majors or minors.
- 6. Minimum grade of 3.0 in EED 310.
- 7. Achieve an Oakland University grade point average (GPA) of at least 2.80.
- 8. 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.





pg. 307-330 311 4/18/02, 2:50 PM



The SEHS Advising Office is located in 363 Education Building (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

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 B.S. degree, they must:

- Complete a minimum of 124 credits. 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, including special general education requirements for elementary education majors (described below).
- 3. Complete one teaching major or two teaching minors (described below) with a minimum grade of 2.5 in each course.
- 4. Complete preprofessional and professional course work with a minimum grade of 2.8 in each course and a minimum grade of 2.0 in EED 455 (2.8 required for teaching certification).
- 5. Earn a minimum grade of 2.0 in each general education course and maintain a minimum 2.80 GPA.
- 6. Be in compliance with all legal curricular requirements for Michigan certification.

General education

Elementary education majors must take STA 225 to meet the university general education requirement in mathematics. **Recommended** course work in other areas follows:

Literature: Choose one from ENG 100, 224 or 241.

Language: ALS 176 is preferred unless modern language is a teaching major or minor. Western Civilization: HST 114 or 115.

Social Science: PS 100 or ECN 200.

Natural Science/Technology: Choose one from BIO 104, 110, 111, 113, 300 or CHM 300.

Art: Any course listed in the catalog that meets the requirement.

International Studies: Any course listed in the catalog that meets the requirement.

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.

Language arts teaching minor (24 credits) — RDG 332; ALS 176; 4 credits of literature; and 12 credits from approved electives in ALS, COM, ENG, JRN, LIN, LIT, RDG or THA.





pg. 307-330 312 4/18/02, 2:50 PM



Language arts teaching major (36 credits) — Meet requirements of the language arts minor plus 12 additional credits selected from language arts minor electives.

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 APM, MTE, MTH or STA.

Mathematics teaching major (30 credits) — Meet requirements of the mathematics minor plus at least 10 credits from approved electives in APM, 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.

Science teaching minor (24 credits) — SCS 105; 4 credits from BIO; 4 credits from CHM; 4 credits from ENV; 8 credits from PHY.

Science teaching major (36 credits) — Meet requirements of the science minor plus an additional 12 approved elective science credits.

Social studies teaching minor (24 credits)— ECN 200 and 201; 8 credits from GEO 106, 107, 200, 210, 220, 230, 250, 270; HST 114 and 115; PS 100 plus any additional PS course. If additional elective credits are needed, they should be selected from economics, geography, history or political science.

Social studies teaching major (36 credits) — Meet requirements for the social studies teaching minor plus additional approved credits in economics, geography, history or political science.

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 two professional education courses. Any waiver to this policy must be approved by the Advising Office before the term for which the waiver is requested. Students must follow the required sequence of courses provided at the time of admission. Prerequisites are required for some professional education courses. See course offerings for prerequisites and corequisites.

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 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 elementary classroom;
- 4. Rapport and communication with students in the elementary classroom, 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





pg. 307-330 313 4/18/02, 2:50 PM

of all required course work for the teaching major and/or minors. Any student requesting placement in a middle school for student teaching must have two subject area endorsements. EED 455 may not be repeated.

Students must obtain written permission from the Advising Office 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 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 portion of the state MTTC 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. Successful completion of our program and internship does not guarantee certification by the State of Michigan. Furthermore, one is not a "program completer" of a teacher education program until one has accomplished both: a) all institutional academic and other requirements such as to establish eligibility for recommendation for certification, and b) taken the minimum number of state certification tests for the teaching field desired. Applicants should be aware that a conviction for a felony or for a misdemeanor involving moral turpitude of a minor may constitute grounds for denial of a certificate by the State of Michigan.

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, 420; FE 210, 215; IST 396; MTE 210; RDG 331, 333; SCS 105; SE 355.

EED 303 Teaching Mathematics in the Middle School (4)

Assists prospective teachers in developing sound pedagogical strategies and instruction techniques for teaching mathematics in the middle school. Prerequisite: EED 302.

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.





pg. 307-330 314 4/18/02, 2:50 PM



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, 420; FE 210, 215; IST 396; MTE 210; SCS 105; RDG 331, 333; SE 355.

EED 310 Public Education for the Future (4)

Assists pre-elementary education majors in deciding whether or not to pursue education as a career. Examines, through lectures and extensive written assignments, topics pertaining to public education. Includes a required field experience.

Prerequisite: Concurrently (can be taken with FE 210, FE 215).

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.

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.

Instructional Design and Assessment (3 or 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.

Corequisite: EED 420.

EED 420 Instructional Interaction and Classroom Management (3 or 4)

Acquaints prospective teachers with the importance of human interactive skills, including sensitivity to cultural differences. Provides understanding of the flexible line separating personal and professional behavior. Examines classroom management objectives and strategies. Includes student involvement in role-playing and action-oriented problem solving. Includes a required field experience. Satisfies the university ethnic diversity requirement.

Prerequisite: Admission to major.

Corequisite: EED 354.

pg. 307-330

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: See program requirements — internship.

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, 420; FE 210, 215; IST 396; MTE 210; SCS 105; RDG 331, 333; SE 355.

Gender Socialization in Schools (4)

Provides an understanding of the role gender plays in teaching and learning, with emphasis upon socialization of girls and women in schools. Assists prospective teachers, parents and others in designing programs that reduce gender bias in our educational system. Identical with WS 481.

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).





4/18/02 2:50 PM 315



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.

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 Education Building, (248) 370-4182

Internet: 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 a 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 12 credits of OU STEP professional coursework can be applied directly to an M. Ed. program offered by the Department of Curriculum, Instruction and Leadership. 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.





pg. 307-330 316 4/18/02, 2:50 PM



The program also requires 38 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	4
FE 345	Educational Psychology for Secondary Teachers	4
RDG 338 or 538	Teaching Reading in the Content Areas	4
SED 427	Methods of Teaching Secondary Students	2
SE 401 or 501	Introduction to Student with Special Needs	4
nternship year course	es include:	
SED 428	Teaching of the Major Field	4
FE 602	Philosophy in Education	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

In

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 and RDG 538	
Senior year, spring semester	SED 427 and SE 501	
Internship (fall, winter and spring semesters)	SED 455 (full year), SED 428	
	(fall), and FE 602 (spring)	

NOTE: SED 300 must be completed at least one semester before application for admission.

Field experiences

SED 300, FE 345 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 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 about three-fourths of the year and full day participation in the quarter of the school year that falls during Oakland's winter semester.

Applicant eligibility

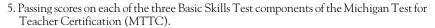
Eligibility to apply to the OU STEP requires:

- 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.
- 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).





pg. 307-330 317 4/18/02, 2:50 PM



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. These tests are typically taken in the summer before or in the fall of the internship year. In addition, students must receive a minimum grade of 2.8 in SED 455 to be eligible for recommendation for certification. A teaching major and minor are state requirements for certification.

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 427 Methods of Teaching Secondary Students (2)

Emphasizes the development of teaching strategies and human interaction techniques unique to secondary students and classrooms. Topics include discipline, motivation, instructional technology, skill assessment, evaluation and affective learning.

Prerequisite: Admission to secondary education.







SCHOOL OF EDUCATION AND HUMAN SERVICES



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 (4)

Assists prospective teachers in developing sound pedagogical strategies and instructional techniques for teaching mathematics in the middle school. Prerequisite: SED 428

SED 455 Internship in Secondary Education (4 to 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.





pg. 307-330 319 4/18/02, 2:50 PM



405B Education Building

(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, Donald M. Miller, Ronald M. Swartz

Associate professors: Sandra M. Alber, Marc E. Briod, Andrew S. Gunsberg,

M. Shannan McNair, Sherri L. Oden, Richard C. Pipan, Carol A. Swift

Assistant professors: Ambika Bhargava, Erica A. Ruegg, Olivia A. Williams

Visiting assistant professor: James M. Javorsky

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

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. Must be taken in first 24 professional sequence credits. 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. Must be taken in first 24 professional sequence credits. Prerequisite: Admission to major.

Human Nature (4)

An analysis of human nature through evolutionary, developmental, cultural and philosophical perspectives. Implications for the helping professions.





pg. 307-330 4/18/02 2:50 PM

SCHOOL OF EDUCATION AND HUMAN SERVICES



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.

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, 420 and 8 additional professional sequence credits.

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.





pg. 307-330 321 4/18/02, 2:50 PM



DEPARTMENT OF HUMAN RESOURCE DEVELOPMENT

435A Education Building

(248) 370-4109 Fax: (248) 370-4095

Internet: www2.oakland.edu/sehs/hrd

Chairperson: Billy Joe Minor

Professors emeriti: David P. Meyer, William F. Moorhouse, Robert G. Payne

Associate professors: Susan M. Awbrey, F. James Clatworthy, William C. Fish,

Michael P. Long, Billy Joe Minor, James Quinn

Assistant professors: Celina Byers, Maria Cseh, Constantine I. Kontoghiorghes, Monica Tracey

Instructor: Chaunda L. Scott

Technology consultant: George Preisinger

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, 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 needs assessment, instructional design and delivery, program evaluation, performance appraisal, personnel selection, recruiting, organization development, labor relations, employee involvement, and managing diversity. Graduates are prepared with conceptual knowledge and technical and interpersonal skills for a variety of careers in business and industry, health and human services and government.

Degree Requirements

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 pre-HRD status prior to fall 2002 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-HRD 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.
- 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 proficiency requirement (see *Undergraduate degree requirements*).
- Complete the university general education requirement with a minimum total of 32 credits (see *Undergraduate degree requirements*).





pg. 307-330 322 4/18/02, 2:50 PM



- Satisfy the university ethnic diversity requirement (HRD 367 in the HRD major satisfies this requirement).
- 8. Complete the human resource development core courses (16 credits) with a minimum grade of 2.8 in each course and apply for admission to major standing in the program.
- 9. Complete the human resource development major courses (56 credits) with a minimum grade of 2.8 in each course.
- 10. Complete the elective requirements.
- 11. Complete the internship requirements (8 credits) with a minimum grade of 2.8.

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 Education Building (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

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 32 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.
- 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 core courses, major 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:

CSE 125	Introduction to Computer Use	4
RHT 160	Composition II	4
HRD 306	Introduction to Human Resource Development	4
HRD 351	Fundamentals of Human Interaction	4
		16

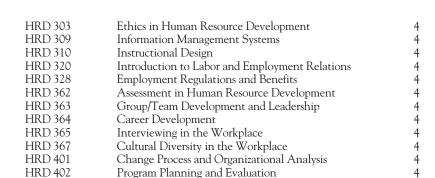
B. Major Courses (56 credits)

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.





pg. 307-330 323 4/18/02, 2:50 PM



C. Electives (8 credits minimum)

The electives allow students to take courses that support their individual interests and career aspirations. Elective courses must be 100 level or higher.

Writing for Human Services Professionals

Instructional Methods

D. Internship (8 credits)

HRD 423

RHT 335

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.

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 (12 credit hours) with a minimum grade of 2.8 in each
- 3. Complete an additional minimum of 12 credit hours of HRD courses with a cumulative grade point average of 2.80 or better with no grade lower than 2.0.

 Note: HRD 369 Fieldwork in HRD, HRD 390 Independent Study in HRD, and HRD 490 Internship in HRD cannot be used to satisfy minor course requirements.

Minor core (12 credits)

1,111101 0010 (1		
HRD 351	Fundamentals of Human Interaction	4
HRD 306	Introduction to Human Resource Development	4
HRD 363	Group/Team Development and Leadership	4
or		
HRD 365	Interviewing in the Workplace	4
		12
Selected HRD courses		12
		24





pg. 307-330 324 4/18/02, 2:50 PM



Minor in labor and employment studies

Labor and employment studies is an interdisciplinary minor that provides an academic background for understanding the empirical and theoretical bases of the employee/employer relationship and labor organizations. This program may be particularly useful to individuals interested in the operational aspects of employment including the law, collective bargaining, personnel practices, and the dynamics of staff, leadership and participative roles.

This minor is open to any student who has been admitted to the university. Core courses are scheduled to maximize accessibility to both full-time undergraduates and full-time, 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.

This minor requires 22-24 credits distributed among the following three areas of preparation. The plan of study is subject to the approval of the coordinator for the minor. Courses counted towards the minor must have a cumulative grade point average of 2.80 or better with no grade lower than 2.0.

1. Core (16 credits)

a. Must take 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. Select at least 3 of the following:

HRD 322 The Study of Labor and Work Organizations (4)
HRD 324 Work and the Law (4)
HRD 326 Collective Bargaining and Dispute Resolution (4)
HRD 328 Employment Regulations and Benefits (4)
HRD 364 Career Development (4)

In addition, students must make selections of one course from each of the following two areas to satisfy the remaining requirements of the minor:

2. Organizational Theory and Practice and Work Life Processes (3-4 credits)

COM 202	Group Dynamics and Communication (4)
COM 304	Communication in Organizations (4)
HRD 363	Group/Team Development and Leadership (4)
HRD 464	Consultation (4)
HRD 401	Change Process and Organizational Analysis (4)
ORG 330	Introduction to Organizational Behavior (3)
SOC 350	The Sociology of Work (4)
SOC 354	Quality of Work Life (4)
SOC 359	Human Factors in Quality Control (4)
SOC 381	Theories of Modern Organizations (4)

3. Community and Society (3-4 credits)

HRD 335	Substance Abuse (4)
HRD 367	Cultural Diversity in the Workplace (4)
HST 302	American Labor History (3)
PS 110	Contemporary Political Issues (4)
PSY 374	Psychology of Women (4)
SOC 331	Racial and Ethnic Relations (4)
SOC 357	Industrial Sociology (4)
SOC 445	Contemporary Work Roles, Careers and Labor Markets (





pg. 307-330 325 4/18/02, 2:50 PM



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

HRDdepartmental 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 training and design priorities. Investigates roles and competencies for trainers in human services and business and industry work settings. Promotes an understanding of the training and development field and the positioning of self as a potential trainer.

HRD 309 Information Management Systems (4)

Acquaints the student with the information technology needs of organizations. Students learn the importance of creating information systems and how to select appropriate hardware and software. Formerly HRD 409.

Prerequisite: CSE 125 or equivalent.

HRD 310 Instructional Design (4)

Explores adult learning theory including cognitive, affective, psychomotor domains. Instructional design models, needs analysis, occupational task analysis, development of competencies and learning objectives. Determination of appropriate training approach. Selection and evaluation of instructional materials and media.

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. Formerly LE 320.

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. Formerly LE 321.

HRD 322 The Study of Labor and Work Organizations (4)

An in-depth study of employment systems and relationships, and employee organizations. Formerly LE 322.

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. Formerly LE 324.





pg. 307-330 326 4/18/02, 2:50 PM



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. Formerly LE 326.

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. Formerly LE 328.

HRD 335 Substance Abuse (4)

Studies the modes of prevention and treatment programs for substance abuse. Readings and reports include basic information about various drugs and alcohol, with history, categories and definitions, misuse, abuse, legitimate use, laws, attitudes and reasons people abuse drugs.

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. Formerly HI 351.

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. Formerly HI 363. 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. Formerly HI 365. Prerequisite: HRD 306 and 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 ethnic diversity requirement.

Prerequisite: RHT 160 or equivalent and HRD 351.

HRD 369 Field Work in HRD (2, 4 or 6)

Intermediate-level supervised experiences in HRD settings, such as training and personnel departments in business, industry and government, employment offices and human service agencies. Students must submit application to the fieldwork coordinator by designated dates on field work application approximately three months prior to the semester in which the field work will be served.

Prerequisite: Permission of instructor by application to department and admission to human services specialization.





pg. 307-330 327 4/18/02, 2:50 PM



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 363.

HRD 402 Program Planning and Evaluation (4)

Emphasizes skills in developing performance objectives and in organizing, writing and presenting proposals for program development. Methods of evaluation of training and development and human service programs i.e., action and survey research design. Prerequisite: HRD 362.

HRD 423 Instructional Methods (4)

Methods of instructing adults in training programs using instructional materials and media. Application of adult learning theory and evaluation of learning based upon competencies. Teacher-student interaction process and use of instructional media.

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 464 Consultation (4)

Includes study of processes of internal and external consultation, strategies for intervention in organization and consulting approaches in support of individual helping professionals, supervisors and administrators. Formerly HI 464.

Prerequisite HRD 365, 401 and 402.

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 470 Introduction to Computer-Based Instruction (4)

Acquaints students with the use of instructional design to create individualized training that is delivered via computer. Provides beginning skills in the use of a computer authoring system to create a training module and in the selection of multimedia software and hardware.

Prerequisite: HRD 310.

HRD 490 Internship in HRD (4, 8 or 12)

A culminating experience where students apply learning in a supervised HRD setting. Students must submit application to the internship coordinator 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 160 or equivalent, CSE 125 or equivalent, HRD 306 and 351, (major) HRD 309, 310, 362, 363, 364, 365, 367, 402, 423, and RHT 335; permission of internship coordinator by application to department.





pg. 307-330 328 4/18/02, 2:50 PM



DEPARTMENT OF READING AND LANGUAGE ARTS

485K Education Building

(248) 370-3065 Fax: (248) 370-4367

Chairperson: Robert M. Schwartz

Professors emeriti: Gloria T. Blatt, Harold C. Cafone, Robert J. Christina, George E. Coon

Professors: Ronald L. Cramer, Robert M. Schwartz, Toni S. Walters

Associate professors: Richard F. Barron, James F. Cipielewski, John E. McEneaney, Anne E. Porter

Assistant professors: Jennifer I. Berne, Kathleen F. Clark, Gwendolyn M. McMillon, Linda M. Pavonetti, B. Joyce Wiencek

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, postmaster'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.

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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.

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 (4)

Preparation for teaching language arts in elementary 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.

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.







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, 333; admission to elementary education program or permission of instructor.

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.

Reading Appraisal in the Elementary Classroom (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: RDG 331, 333.

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, 333.

INSTRUCTIONAL SYSTEMS TECHNOLOGY

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.

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.

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, 397, 399 and permission of instructor.

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 397 or 399 and permission of instructor.

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.







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; John K. Fischer, assistant dean; Patrick Bennett, academic adviser/program coordinator; Carolyn Somsky-Miller, 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:

Robert T. Lentz, Ph.D., Chairperson, Advisory Board; Director, Advanced Programs, General Dynamics Land Systems Division

William G. Agnew, Ph.D., Retired Director, General Motors Research Labs

Hadi A. Akeel, Ph.D., Former Senior Vice President and Chief Engineer,

FANUC Robotics Corporation

Jerry R. Blevins, Division Manager, Engineering, Eaton Actuators and Sensors

Samuel L. Cole, III, Chief Engineer, Chassis Engineering, Lincoln Mercury Product Development Herbert H. Dobbs, Ph.D., Consultant, Rochester, Michigan

Grant R. Gerhart, Ph.D., Senior Research Scientist, U.S. Army Tank-Automotive, RDE Center (TARDEC)

Philip M. Headley, Chief Engineer, Brake Systems, Continental Teves

Sidney D. Jeffe, Retired, Chrysler Corporation

Anna Kretz, Vehicle Line Executive, FWD Truck Products, General Motors Corporation

Joseph D. Long, Chief Engineer, Door Systems, Delphi Interior Systems

Thomas P. Mathues, Vice President of Engineering, Advanced Technology,

TI Group Automotive Systems, Inc.

Ron A. May, Vice President, Energy Delivery and Service, Detroit Edison

Bernard I. Robertson, Senior Vice President, Engineering Technologies,

General Manager Truck Operations, DaimlerChrysler Corporation

Stephan Sharf, President, SICA

S. Carl Soderstrom, Jr., Senior Vice President, Engineering, Quality and Procurement, Arvin Meritor Automotive

Jeffery Van Dorn, Director Engineering Services, Compuware Corporation

Thomas H. Vos, Director of Applied Technology, TRW Vehicle Safety Systems, Inc.









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 graduate 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, manufacturing engineering option in 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 Computer Science 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. 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 hardware as well as the software 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.





pg. 331-381 332 4/18/02, 2:51 PM



By selecting appropriate concentrations and minors, students can combine their studies in engineering and/or computer science with advanced preparation in a number of related fields.

The School of Engineering and Computer Science also offers minors in computer science and in computing for nonmajors.

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. For more details refer to the undergraduate student handbook of the school.

Graduate programs

The School of Engineering and Computer Science offers programs leading to the Master of Science degree in electrical and computer engineering, mechanical engineering, systems engineering, computer science and engineering, software engineering and the Doctor of Philosophy degree in systems engineering, which 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

Center for Robotics and Advanced Automation

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.

Product Development and Manufacturing Center

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 or 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. Normally, a 3.00 (B) grade point average is required for admission to programs in the School of Engineering and Computer Science.





pg. 331-381 333 4/18/02, 2:51 PM



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. Community college students who satisfy the MACRAO agreement generally need only 8 additional credits to satisfy Oakland University's general education requirements.

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, such as C++, is desirable. Whenever possible, further course work in computer science should be planned with an Oakland University adviser to ensure compatibility with university requirements.

See Transfer student information for additional information.

Internal transfer

Oakland University students wishing to transfer into 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. A strong performance in all of the courses taken at Oakland University, especially in the above listed four courses in calculus and physics, 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 101, "Introduction to Engineering." This course is taught by faculty from all the departments of the school, thereby providing a perspective of their specialty areas and increasing students' awareness of the engineering profession. Students





pg. 331-381 334 4/18/02, 2:51 PM



are encouraged to meet with the faculty and seek further clarification or professional advice.

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, engineering students should ensure that they acquire at least 16 credits of design while satisfying their overall program requirements. Design credits can be acquired through the study of various subjects. Similarly, computer science students should ensure that they meet various breadth and depth requirements in the advanced portion of their computer science curriculum. For each program, credits associated with relevant design experiences and those associated with various computer science categories are listed in the school's *Undergraduate Student Handbook* available from the advising office (159A Dodge Hall).

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 or computer science:

- 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, of which 16 must be design credits;

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 20 credits in computer science courses required for the major.





pg. 331-381 335 4/18/02, 2:51 PM

- Take the last 8 credits needed to complete baccalaureate requirements at Oakland University.
- Demonstrate writing proficiency by meeting the university standard in English composition (see Undergraduate degree requirements).
- 5. Fulfill the university general education requirement (see below and *Undergraduate degree requirements*).
- 6. Fulfill the university ethnic diversity requirement.
- 7. Be admitted to major standing in the major of the student's choice.
- 8. Complete the requirements specified for the elected major.
- Earn a cumulative grade point average of at least 2.00 in courses taken at Oakland University.
- Complete an Application for Degree at the Office of the Registrar and pay the graduation service fee.

General education

All Oakland University students must take a series of courses distributed across eight field groups for broad exposure to a liberal arts education. Engineering and computer science students automatically satisfy two of these groups (natural science and technology; mathematics, logic and computer science) by virtue of required courses. In addition to satisfying the remaining six groups, engineering and computer science students must arrange to acquire depth in a particular area of general education study. The requirements may be satisfied by selecting one of the course sequences listed below and choosing the remaining courses from the field groups not represented.

American history and literature: HST 114 and ENG 224

(Western civilization and literature)

Asian arts and civilization: AH 104 and IS 210 or 220 or 240 or 270

(arts and international studies)

Asian literature and civilization: LIT 100 and IS 210 (or 220 or 240)

(literature and international studies)

Chinese civilization and its Communist transformation: IS 210 and PS 377

(international studies and Western civilization)

Classical mythology and philosophy: ENG 312 and PHL 204

(literature and Western civilization)

Comparative politics: PS 131 and PS 377 (Western civilization and social science)

Culture and society through film: CIN 150 and AN 307 (arts and social science)

Culture, science and technology: AN 102 or AN 300 and HST 210

(social science and Western civilization)

Ethnic literature and history of African-Americans: ENG 112 and HST 292

(literature and Western civilization)

European history and literature: HST 101 or 102 and ENG 241, HST 101 and LIT 181, HST 102 and LIT 182 (Western civilization and literature)

Language and civilization: SPN 114, RUS 114, GRM 114, CHE 114, JPN 114 or HIU 114 and the corresponding IS course (250, 260, 260, 210, 220 or 240)

(language and international studies)

Macro-economics in the context of American history: HST 115 and ECN 200 (or 210) $\,$

(Western civilization and social science)









Russian civilization and its Communist transformation: IS 260 and PS 377 (international studies and Western civilization)
Self and society in American history: HST 114 or 115 and SOC 206 (Western civilization and social science)
Theatre and dramatic expression: THA 100 or 301 or 302 and ENG 306 (arts and literature)

Oakland University also requires that students take at least one course that satisfies the ethnic diversity requirement (see *Academic Policies and Procedures* section of this catalog). A listing of such courses is also available in the advising office (159A Dodge Hall). Students may select a course that fulfills both a general education category requirement and the ethnic diversity requirement.

Suggested sequence for the freshman year

Following is an example of a suggested sequence of courses for freshmen entering the School of Engineering and Computer Science with the necessary preparation in mathematics.

Engineering majors — First semester: EGR 101, MTH 154, CHM 143, CSE 141, rhetoric or general education course. Second semester: CSE 171, MTH 155, PHY 151, general education course.

Computer science majors — First semester: CSE 141, MTH 154, rhetoric, general education course. Second semester: CSE 171, MTH 155, PHY 151, general education course. Computer science majors are encouraged to take the 1-credit course EGR 101 as a free elective.

Scheduling for subsequent years depends on students' selected majors or minors, 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.

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 or computer science 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 proficiency and satisfactory completion of course work in mathematics, science and the major, as designated below.

Computer science and computer engineering

Mathematics: MTH 154-155, 256; APM 263. Science: PHY 151, 152. Major: EGR 101 (for computer engineering majors only), CSE 141, 171, 230.

Electrical engineering and systems engineering

Mathematics: MTH 154-155, 256; APM 257. Science: CHM 143, PHY 151, 152. Major: EGR 101; CSE 141, 171; EE 222; ME 221.





pg. 331-381 337 4/18/02, 2:51 PM



Mechanical engineering

Mathematics: MTH 154-155 and either MTH 254 or both MTH 256 and APM 257. Science: CHM 143; PHY 151, 152. Major: EGR 101; CSE 141, 171; ME 221; EE 222.

Engineering physics

Mathematics: MTH 154-155, 254. Science: CHM 143; PHY 151, 152, 158. Major: CSE 141, 171; EE 222.

Engineering chemistry

Mathematics: MTH 154-155, 254, APM 257. Science: CHM 157-158 or 164-165; 147-148. Major: EGR 101; CSE 141, 171; ME 221.

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 and 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.

Transfer students may satisfy the requirements for major standing by using transfer credits.

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 or computer science should apply through the office of the cooperative education coordinator (366 Vandenberg Hall, 370-3213).





pg. 331-381 338 4/18/02, 2:51 PM



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*).

Policies on Electives

Free electives ineligible for credit toward the degree

Students entering the School of Engineering and Computer Science are expected to have adequate preparation for the required introductory courses in mathematics, physics and chemistry. Courses in these areas that are more elementary than MTH 154, PHY 151 and CHM 143 may not be presented for credit toward a degree in engineering and computer science. Also, CSE courses below 141 may not be presented for degrees in computer engineering and computer science. The following math/science courses and their equivalents are not recognized for credit toward the degree: MTH 011, 012, 100, 118, 121-122, 141; PHY 101, 102; CHM 101, 104 and 300.

New courses in mathematics, physics or chemistry that may be introduced in the future will be added to the list if the content warrants. A current list of disallowed courses is maintained in the office of the academic adviser, 159A Dodge Hall, and is available for inspection.





pg. 331-381 339 4/18/02, 2:51 PM



Minors and Concentrations

Students who wish to add a minor or concentration or otherwise participate in an interdepartmental program must apply for admission and assistance in planning a program. Application may be made to the coordinator of the appropriate program committee or department involved.

Described below are the requirements for minors and concentrations that have been approved for engineering and computer science majors. Students planning medical, dental or optometry careers are advised to take the concentration in preprofessional studies in medicine, dentistry and optometry (see *Other Academic Options* in the Arts and Sciences portion of the catalog).

Accounting

Coordinator: David D. Sidaway

For computer science majors, a minimum of 20 credits. To obtain a minor in accounting, students must complete the following courses with a grade of at least 2.0 in each course: ACC 200, 210 and 12 additional credits in accounting (ACC) courses for which students have the prerequisites.

Applied mathematics

Coordinator: Jerrold W. Grossman

For engineering and computer science majors, a minimum of 22 credits. To obtain a minor in applied mathematics, students must complete the following courses with a grade of 2.0 or better in each: MTH 254, 256, 302, either 351 or 475; STA 226 (or another statistics course approved by the coordinator); and one course chosen from among APM 257, 263, or any 3-or 4-credit 300-400 level courses labeled MTH, APM, MOR or STA, except APM 407 and MTH 497. Students should consult an adviser in the Department of Mathematics and Statistics when planning their programs.

Applied statistics

Coordinator: Robert H. Kushler

For engineering and computer science majors, a minimum of 16 credits. To obtain a concentration in applied statistics, students must complete at least 16 credits in statistics with an average grade of at least 2.0. Courses must include STA 226 or another approved introductory course, STA 322, 323 and 324. Students should consult an adviser in the Department of Mathematics and Statistics when planning their programs.

Biology

Coordinator: John Cowlishaw

For computer science majors, a minimum of 20 credits. To obtain a liberal arts minor in biology, students must take a minimum of 20 credits in biology, including BIO 111, 113 and 116. At least 8 credits must be in courses numbered 301 or higher. A minimum of 8 credits must be taken at Oakland University.

Chemistry

Coordinator: Michael D. Sevilla

For computer science majors, a minimum of 26 credits. To obtain a liberal arts minor in chemistry, students must take CHM 157-158 (or 167-168), 234-235, 325 and 342. This minor





pg. 331-381 340 4/18/02, 2:51 PM



is also available for engineering majors, requiring a minimum of 24 credits. Engineering majors must complete the following courses with an average grade of 2.0 or better: CHM 157-158 (or 167-168), 325, 342, 470 and 471. A minimum of 8 credits must be taken at Oakland University.

Economics

Coordinator: Miron Stano

For engineering and computer science majors, a minimum of 18-20 credits. To obtain a minor in economics (offered by the School of Business Administration), students must complete the following courses with a grade of at least 2.0 in each course: ECN 200 and 201 or ECN 210 and any prerequisites for these courses. The remainder of the 18-20 credit requirements can be fulfilled with any other 300- or 400- level economics (ECN) courses. This minor is open to all students except economics majors.

Environmental Studies

Coordinator: Paul Tomboulian

For engineering majors, a minimum of 24 credits. To obtain a concentration in environmental studies, students must complete the following courses: a) CHM 234, ENV 308 and ME 407; b) 8 credits of electives chosen from CHM 310, 412, 413, ENV 373 and BIO 301; and c) 4 credits of ME 490 or 494 on an approved environmental engineering topic.

Finance

Coordinator: Edward J. Farragher

For computer science majors, a minimum of 23 credits. To obtain a minor in finance, students must complete the following courses and any prerequisites required: ACC 200, QMM 250, FIN 322 and 9 additional credits in finance (FIN) courses. A grade of at least 2.0 in each course is required.

General business

Coordinator: Kevin Nathan

For engineering and computer science majors, a minimum of 19-23 credits. To obtain a minor in general business, students must complete the following courses with a grade of at least 2.0 in each course: ECN 210 or both ECN 200 (or 150) and 201, ACC 200, ORG 330, and 6-8 additional credits chosen from 300- or 400-level courses in ACC, FIN, MGT, MIS, MKT, ORG, POM or QMM for which students have met the prerequisites.

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 does not satisfy the approved minor requirements for the computer science program.

Linguistics

Coordinator: Peter J. Binkert

For computer science majors, a minimum of 20 credits. To obtain a liberal arts minor in linguistics, students must complete the following courses with an average grade of at least 2.0: LIN 201, 303, 304 and either 403 or 404. At least 4 credits from 300-400 level LIN or ALS courses.

Management information systems

Coordinator: Srinarayan Sharma

The minor in management information systems consists of the following 18 credits and any prerequisites for these courses: CSE 125 or MIS 200, CSE 130 or 141 or 220 or ACC 419; MIS 300, 304 and 316.

Physics

Coordinator: Ken Elder

For computer science majors, a minimum of 20 credits. To obtain a liberal arts minor in physics, students must complete the following courses with an average grade of at least 2.0: PHY 151-152, 158 and at least 8 credits in physics courses numbered 300 or above.

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 250 or STA 226; POM 343; and any two courses chosen from POM 441, 445, 448, 480 and QMM 452.

Quantitative methods

Coordinator: David P. Doane

For computer science majors, a minimum of 19 credits. To obtain a minor in quantitative methods, students must complete the following courses with a grade of at least 2.0 in each course: CSE 130 or 141; QMM 250 or STA 226; three courses chosen from ECN 405, MIS 444, POM 448, QMM 440 or 452, STA 323 and 324.

Additional Information

Prerequisite courses

In planning their schedules, students should ensure that they satisfy prerequisite and corequisite conditions for courses. 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.





pg. 331-381 342 4/18/02, 2:51 PM



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





pg. 331-381 343 4/18/02, 2:51 PM



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

Each year the faculty select 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:

- 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.





pg. 331-381 4/18/02 2:51 PM



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

168 DODGE HALL (248) 370-2200

Chairperson: Ishwar K. Sethi

Professor emeriti: David E. Boddy, Glenn A. Jackson, Thomas G. Windeknecht

Professors: Subramaniam Ganesan, Richard E. Haskell, Janusz W. Laski, Ishwar K. Sethi, Sarma R. Vishnubhotla

Associate professors: Fatma Mili, Ronald J. Srodawa, Christian C. Wagner

Assistant professors: Djamel Bouchaffra, Lunjin Lu, Viviana Sandor, Gautam Singh

Special instructor: Jerry E. Marsh

Special lecturers: Yogi Anand, Darrin Hanna, Harlan Neuville

Adjunct professor: Osman D. Altan

Adjunct associate professors: Gerard Jozwiak, Ken Rao

Adjunct assistant professor: Emad Looka

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

Ronald D. Snyder Jr., Manager, Vehicle Systems Software, General Dynamics Land Systems

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 and in Computer Science. The department also offers master's programs in Computer Science and 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.





pg. 331-381 345 4/18/02, 2:51 PM



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. They must demonstrate proficiency in writing (see *Undergraduate degree requirements*) and meet the following requirements:

General education (exc	cluding mathematics and science)	Credits 24
Mathematics and scien	ce	
MTH 154-155	Calculus	8
MTH 256	Introduction to Linear Algebra	3
APM 257	Introduction to Differential Equations	3
APM 263	Discrete Mathematics	4
CHM 143	Chemical Principles (or CHM 162)	4
PHY 151-152	Introductory Physics	8
Approved science o	r mathematics elective*	4
		34
Computer science and	engineering core	
CSE 141	Computer Problem Solving in Engineering and	
	Computer Science	4
CSE 171	Introduction to Digital Logic and Microprocessors	4
CSE 230	Object-Oriented Computing I	4
CSE 231	Object-Oriented Computing II	4
CSE 378	Computer Hardware Design	4
		20
Engineering core		
EGR 101	Introduction to Engineering	1
EGR 401	Professional Engineering	1
EE 222	Introduction to Electrical Circuits	4





pg. 331-381 346 4/18/02, 2:51 PM



ME 221 ME 241	Statics and Dynamics	4 4 3 <u>3</u>
	Thermodynamics	4 2
SYS 317	Engineering Probability and Statistics	3
SYS 325	Lumped Parameter Linear Systems	<u>3</u>
Professional subjects		20
Required:	F1	4
EE 326	Electronic Circuit Design	4
EE 384	Electronic Materials and Devices	3
CSE 464	Computer Organization and Architecture	4
CSE 470	Microprocessor-based System Design	4
CSE 480	Senior Design	4
		19
Electives — 4 credits ch		
Any 400/500-level C	SE course (4)	
CSE 343	Theory of Computation (4)	
EE 426	Advanced Electronics (4)	
EE 428	Industrial Electronics (4)	
EE 437	Introduction to Communication Electronics (4)	
SYS 422	Robotic Systems (4)	
SYS 431	Automatic Control Systems (4)	
SYS 463	Foundations of Computer-Aided Design (4)	
SYS 469	Simulation in Engineering (4)	
CSE 490***	Senior Project (2-4)	
CSE 494***	Independent Study (2-4)	
	, , ,	4
	sed to satisfy writing proficiency) electives see <i>Policies on electives</i> .	7
	_	1 100

*Approved science and mathematics electives for computer engineering majors are: biology courses numbered 111, 113 and higher; CHM 163 and chemistry courses numbered 234 and higher, except CHM 497; physics courses numbered 317 and higher, except PHY 341; environmental health courses ENV 308 and 373; MTH 254 and mathematics courses (MTH, APM, STA, and MOR) numbered 300 and higher. Special topics and independent study courses require prior approval.

 $\ensuremath{^{**}}\mbox{Needs}$ approval for its design content by the chairperson of the Department of Computer Science and Engineering.

***Needs prior permission of the chairperson of the Department of Computer Science and Engineering.

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.

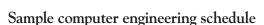






Total

128



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 101, MTH 154, CHM 143, CSE 141, rhetoric or general education, 17 credits; winter semester: MTH 155, PHY 151, CSE 171, general education, 16 credits.

Sophomore year — fall semester: APM 263, PHY 152, CSE 230, general education, 16 credits; winter semester: MTH 256, EE 222, CSE 231, general education, 15 credits.

Junior year—fall semester: APM 257, ME 221, SYS 317, EE 326, general education, 18 credits; winter semester: ME 241, CSE 378, SYS 325, general education, 15 credits.

Senior year — fall semester: EE 384, CSE 470, science or mathematics elective, EGR 401, 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, demonstrate writing proficiency (see *Undergraduate degree requirements*) and meet the following requirements:









General education (excl	luding mathematics and science)	Credits 24
Mathematics and scienc	e	
MTH 154-155	Calculus	8
MTH 256	Introduction to Linear Algebra	3
APM 263	Discrete Mathematics	4 8 2
PHY 151-152	Introductory Physics	8
PHY 158	General Physics Laboratory	2
Approved science or	mathematics elective*	4
		29
Computer science and e		
CSE 141	Computer Problem Solving in Engineering and	
	Computer Science	4
CSE 171	Introduction to Digital Logic and Microprocessors	4
CSE 230	Object-Oriented Computing I	4 4
CSE 231	Object-Oriented Computing II	4
CSE 378	Computer Hardware Design	4
		20
Professional subjects		
Required:		
CSE 331	Event-Driven Programming	4
CSE 335	Programming Languages	4
CSE 343	Theory of Computation	4
CSE 361	Design and Analysis of Algorithms	4 1
CSE 402	Social Implications of Computing	1
CSE 445	Database Systems	4 4 4
CSE 450	Operating Systems	4
CSE 480	Senior Design	4
SYS 317	Engineering Probability and Statistics	3
		32
Electives — 12 credits of		
	course selected from CSE 247, CSE 248, CSE 251, CSE 220)
Any two 400- or 500-	-level CSE courses.	10
		12
D 1 . / 1	1	
	sed to satisfy writing proficiency)	11
For limitations on free	e electives see Policies on electives.	120
	Total	128

*Approved science and mathematics electives for computer science majors are: biology courses numbered 111, 113 and higher; CHM 143 and chemistry courses numbered 234 and higher, except CHM 497; physics courses numbered 317 and higher, except PHY 341; environmental health courses ENV 308 and 373; MTH 254 and mathematics courses (MTH, APM, STA, and MOR) numbered 300 and higher. Special topics and independent study courses require prior approval.

**Needs prior approval of the chairperson of the Department of Computer Science and Engineering.

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, CSE 141, general education, English composition or general education, 16 credits; winter semester: MTH 155, PHY 151, CSE 171, general education, 16 credits.

Sophomore year — fall semester: APM 263, PHY 152, PHY 158, CSE 230, general education, 18 credits; winter semester: MTH 256, CSE 231, 200-level CSE elective, general education, 15 credits.

Junior year — fall semester: SYS 317, CSE 335, 361, general education, 15 credits; winter semester: CSE 343, 378, 331, general education or free elective, 16 credits.

Senior year — fall semester: CSE 402, 450, 445, professional elective, science or mathematics elective, 17 credits; winter semester: CSE 480, professional elective, two free electives, 15 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: CSE 141, 171, 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 125, 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.





pg. 331-381 350 4/18/02, 2:51 PM



DEPARTMENT OF ELECTRICAL AND SYSTEMS ENGINEERING

102A SCIENCE AND ENGINEERING BUILDING

(248) 370-2177

Chairperson: Naim A. Kheir

Professors emeriti: David H. Evans, Keith R. Kleckner, Tung H. Weng, Howard R. Witt

Professors: Ka C. Cheok, Manohar Das, Edward Y. L. Gu, Pieter A. Frick, Naim A. Kheir, Robert N. K. Loh, Michael P. Polis, Andrzej Rusek, Robert P. Van Til, Mohamed A. Zohdy

Associate professors: Hoda S. Abdel-Aty-Zohdy, Sankar Sengupta,

Assistant professors: Patrick Dessert, John Liu, Barbara Oakley

Adjunct professors: Ronald R. Beck, Robert F. Bordley, Donald R. Falkenburg

Adjunct associate professors: Francis B. Hoogterp, Mutasim Salman

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, Executive Engineer, DaimlerChrysler Corporation Shigeru Oho, Senior Manager/Senior Researcher, Hitachi America, Ltd. Daniel J. VandenBossche, Senior Manager, DaimlerChrysler Corporation Paul K. Webber, Chief Engineer, TRW Automotive Kregg Wiggins, Director, Powertrain Electronics, North America, Siemens Automotive

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 and in Systems Engineering. The department also offers master's programs in Electrical and Computer Engineering, Systems Engineering and Engineering Management in cooperation with the School of Business Administration, 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.





pg. 331-381 351 4/18/02, 2:51 PM



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, demonstrate writing proficiency (see *Undergraduate degree requirements*) and meet the following requirements:

General Education (exc	luding mathematics and science)	Credits 24
Mathematics and science	e	
MTH 154-155	Calculus	8
MTH 254	Multivariable Calculus	4
MTH 256	Introduction to Linear Algebra	3
APM 257	Introduction to Differential Equations	3
CHM 143	Chemical Principles (or CHM 162)	4
PHY 151-152	Introductory Physics	8
Approved science elec	ctive*	4
		34
Engineering core		
EGR 101	Introduction to Engineering or	1
EE 101	Introduction to Electrical and Systems Engineering	1 + 1**
EGR 401	Professional Engineering	1
CSE 141	Computer Problem Solving in Engineering and	
	Computer Science	4
CSE 171	Introduction to Digital Logic and Microprocessors	4
EE 222	Introduction to Electrical Circuits	4
ME 221	Statics and Dynamics	4
ME 241	Thermodynamics	4
SYS 317	Engineering Probability and Statistics	3
SYS 325	Lumped Parameter Linear Systems	3
		28





pg. 331-381 352 4/18/02, 2:51 PM

Total

128



Professional subjects

Requirea:		
EE 326	Electronic Circuit Design	4
EE 345	Electric and Magnetic Fields	3
EE 351	Electromechanical Energy Conversion	3
EE 378	Design of Digital Systems	4
EE 384	Electronic Materials and Devices	3
EE 437	Communication Systems	4
EE 492	Senior Design I	2
EE 493	Senior Design II	3
SYS 431	Automatic Control Systems	4
		30

El

Electives — 8 cred	its chosen from:		
Any 400 level co	urses with an EE or SYS o	lesignation	
EE 490***	Senior Project	(2-4)	
EE 494***	Independent Stud	y (2-4)	
	-	•	8
	be used to satisfy writing		4
For limitations of	n free electives, see Policie	s on electiones	

^{*} Approved science electives for electrical engineering majors are: biology courses numbered 111, 113 and higher; CHM 163 and chemistry courses numbered 234 and higher, except CHM 497; physics courses numbered 317 and higher, except PHY 341; environmental health courses ENV 308 and 373. Those most highly recommended for electrical engineering students are PHY 331, 361 and 371. Special topics and independent study courses require prior approval.

** This additional credit will count toward free elective.

*** Needs prior approval of the chairperson of the Department of Electrical and Systems Engineering.

Depth areas

Electrical engineering students desiring depth in a particular area should consider the following professional elective packages: Electronics — EE 426, 485; Control systems — SYS 422, 433; Computers — EE 470, 472; Power systems — SYS 458, ME 454.

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.

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.





pg. 331-381 4/18/02, 2:51 PM



Freshman year – fall semester: EGR 101 or EE 101 or SYS 101, MTH 154, CHM 143, CSE 141, rhetoric or general education, 17 or 18 credits; winter semester: MTH 155, PHY 151, CSE 171, general education, 1-credit free elective, 17 credits.

Sophomore year – fall semester: MTH 254, PHY 152, ME 221 or 241, general education, 16 credits; winter semester: APM 257, EE 222, ME 221 or 241, general education, 1-credit free elective, 16 credits.

Junior year – fall semester: MTH 256, EE 326, SYS 317, SYS 325, general education, 17 credits; winter semester: EE 345, EE 378, science elective, free elective, 15 credits.

Senior year – fall semester: EGR 401, EE 351, EE 384, EE 492, either EE 437 or SYS 431, general education, 17 credits; winter semester: EE 493, either EE 437 or SYS 431, two professional electives, 15 credits.

Major in Systems Engineering

Systems engineering is a broad discipline with roots in a diverse spectrum of engineering fields. 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.

Oakland University's systems engineering program contains three options: automotive mechatronic systems, dynamic systems and control, and manufacturing.

The dynamic systems and control program prepares students for the field of control engineering. The curriculum combines courses from electrical and mechanical engineering, along with a systems engineering control sequence. It is designed to teach the fundamentals of mechanical systems, control system design techniques and the practical matter of implementing the controllers in modern electronic hardware.

The manufacturing program emphasizes the important role of the computer in systems design. This curriculum is anchored by a strong computer science component which, along with professional courses, prepares students for careers in simulation, computer-assisted design and systems optimization.

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 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.





pg. 331-381 354 4/18/02, 2:51 PM

30-33



To earn the degree of Bachelor of Science in Engineering with a major in systems engineering, students must complete a minimum of 128 credits, demonstrate writing proficiency (see *Undergraduate degree requirements*) and meet the following requirements:

General education (exclude	ding mathematics and science)	Credits 24
Mathematics and science		
MTH 154-155	Calculus	8
MTH 256	Introduction to Linear Algebra	3
APM 257	Introduction to Differential Equations	3
APM 263*	Discrete Mathematics (4) or)
MTH 254*	Multivariable Calculus (4)	4
		4 4
CHM 143	Chemical Principles (or CHM 162)	8
PHY 151-152	Introduction to Physics	
Approved science electi	ve**	<u>4</u> 34
Engineering core		31
EGR 101	Introduction to Engineering or	1
SYS 101		1 + 1***
	Introduction to Electrical and System Engineering	
EGR 401	Professional Engineering	1
CSE 141	Computer Problem Solving in Engineering and	
OOF 151	Computer Science	4
CSE 171	Introduction to Digital Logic and Microprocessors	4
EE 222	Introduction to Electrical Circuits	4
ME 221	Statics and Dynamics	4 4 4 3 <u>3</u>
ME 241	Thermodynamics	4
SYS 317	Engineering Probability and Statistics	3
SYS 325	Lumped Parameter Linear Systems	3
		28
Professional subjects for a	automotive mechatronic systems option (38-41 credits)	
Required:		
EE 378	Design of Digital Systems	4
EE 472	Microcomputer-based Control Systems	4
ME 372	Properties of Materials	4
SYS 431	Automatic Control Systems	4
SYS 475	Automotive Mechatronics	4
Choice of either:		
EE 326	Electronic Circuit Design or	4
EE 473	Automotive Electronics	4
Choice of either:		
ME 321	Dynamics of Vibrations or	3
ME 331	Intro. To Fluid & Thermal Energy Transport	4
Choice of either:		
EE 492	Senior Design I	2
EE 493	Senior Design II	3
or		9
SYS 492	Senior Design I	2
SYS 493	Senior Design II	3
or		,
ME 492	Senior Mechanical Engineering Design Project	3





pg. 331-381 355 4/18/02, 2:51 PM



Electives: 8 credits		
CSE 471	Design of Embedded Software Computer Sys.	4
EE 426	Advanced Electronics	4
EE 428	Industrial Electronics	4 4 4 4 4 4
EE 437	Communication Systems	4
EE 446	Electromagnetic Compatibility (New)	4
SYS 433	Modern Control System Design	4
SYS 487	Foundations of Systems Engineering	4
ME 423	Acoustics and Noise Control	4
ME 457	Internal Combustion Engines I	4
ME 484	Automotive Engineering Design I	
		8
Professional subject	ts for dynamic systems and control option (39 credits)	
Required:	· · · · · · · · · · · · · · · · · · ·	
EE 326	Electronic Circuit Design	4
EE 351	Electromechanical Energy Conversion	2 3 2 2 2 2 2
EE 378	Design of Digital Systems	2
ME 321	Dynamics and Vibrations	3
ME 372	Properties of Materials	2
SYS 431	Automatic Control Systems	_
SYS 433	Modern Control System Design	_
SYS 492	Senior Design I	-
SYS 493	Senior Design II	2
313 493	Semoi Design II	31
		51
Electives — 8 credi		
,	urses with EE or SYS designation	
SYS 490*†	Senior Project (2-4)	
SYS 494*†	Independent Study (2-4)	8
Danfassianal subject	(27 and its)	
	ts for manufacturing option (37 credits)	
Required:	Dalarda Carran	,
SYS 422	Robotic Systems	
SYS 483	Production Systems	
SYS 484	Flexible Manufacturing Systems	2
SYS 485	Statistical Quality Control	4
SYS 492	Senior Design I	4
SYS 493	Senior Design II	Ĵ
ME 372	Properties of Materials	4
ME 474	Manufacturing Processes	
		29
Electives — 8 credi		
Any 400-level co	urses with the SYS, EE or ME designation	
CSE 412	Artificial Intelligence in Manufacturing (4)	
SYS 490*†	Senior Project (2-4)	
SYS 494*†	Independent Study (2-4)	
		8
Free Flectives (mon	be used to satisfy writing proficiency)	1-5
	n free electives see <i>Policies on electives</i> .	17.
i oi iiiiitationis oi	ince electives see i ownes on enemotis.	







Total

128



*MTH 254 is required for dynamic systems and control option and APM 263 is required for manufacturing option.

**Approved science electives for systems engineering majors are: biology courses numbered 111, 113 and higher; CHM 163 and chemistry courses numbered 234 and higher, except CHM 497; physics courses numbered 317 and higher, except PHY 341; environmental health courses ENV 308 and 373; those most highly recommended for systems engineering students are PHY 331 and 371.

***This additional credit will count toward free elective.

*† Needs prior permission of the chairperson of the Department of Electrical 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 enrolled in the manufacturing option 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 the 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 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 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 101 or EE 101 or SYS 101, MTH 154, CHM 143, CSE 141, rhetoric or general education, 17 or 18 credits; winter semester: MTH 155, PHY 151, CSE 171, general education, 1-credit free elective, 17 credits.

Sophomore year — fall semester: MTH 254, PHY 152, ME 221 or 241, general education, 16 credits; winter semester: APM 257, EE 222, ME 221 or 241, general education, 1-credit free elective, 16 credits.

Dynamic Systems and Control Option

Junior year — fall semester: MTH 256, EE 326, SYS 317, SYS 325, general education, 17 credits; winter semester: EE 378, SYS 431, science elective, free elective, 16 credits.

Senior year — fall semester: EGR 401, EE 351, ME 321, SYS 433, SYS 492, general education, 17 credits; winter semester: SYS 493, ME 372, two professional electives, 15 credits.





pg. 331-381 357 4/18/02, 2:51 PM

Manufacturing Option

Junior year — fall semester: MTH 256, ME 372 , SYS 317, SYS 325, general education, 17 credits; winter semester: SYS 484, SYS 485, science elective, free elective, 16 credits.

Senior year — fall semester: EGR 401, SYS 422, ME 474, SYS 492, general education, 15 credits; winter semester: SYS 483, SYS 493, two professional electives, 15 credits.







DEPARTMENT OF MECHANICAL ENGINEERING

170 DODGE HALL (248) 370-2210

Chairperson: Gary C. Barber

Professor emeritus: Robert Edgerton

Professors: Gary C. Barber, Bhushan L. Bhatt, Michael Y.Y. Hung, Gilbert L. Wedekind

Associate professors: Ren-Jyh Gu, Ching L. Ko, Michael A. Latcha, Keyu Li,

Brian P. Sangeorzan, Lianxing Yang

Assistant professors: Laila Guessous, Christopher Kobus, Lorenzo Smith, Dong Yao

Adjunct professors: Alex Alkidas, Francis H.K. Chen, Grant R. Gerhart

Adjunct associate professors: Yung Chiang, Yung-Li Lee, Rohit Parangepe, Ravi Rao, Peter Peng, Sankar Sengupta, 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 Flavia Deveny, CAE Supervisor, Magna, Cosma Body and Chassis Systems, Vehma International of America

Richard Johannes, Director of Engineering, Cardell Automotive-a division of Molex Suresh Ravalingham, 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

Larry Williams, Retired, Director, DaimlerChrysler Corporation

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 and in Mechanical Engineering with Manufacturing Option. The department also offers a master's program in Mechanical Engineering and a doctoral program in Systems 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 and the Manufacturing Engineering option are to produce graduates who:

- (Mechanical Engineering) are able to analyze, design, develop and test components and systems in the areas of mechanics and fluid and thermal sciences;
- (Manufacturing Engineering option) are able to analyze, design, develop and test components and systems in the areas of materials and manufacturing processes, assembly and product engineering; manufacturing productivity and quality, or manufacturing integration methods and systems design;
- 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;

Students majoring in mechanical engineering will select an option, providing for selection among senior-level courses in one of five areas: either the general mechanical engineering option or the more specialized options of fluid and thermal systems, computer-aided design, automotive engineering, or manufacturing engineering.

The Mechanical Engineering curriculum, including the first four options, is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). In addition, the Manufacturing Engineering option in Mechanical Engineering has also been separately accredited by ABET.

To earn the degree of Bachelor of Science in Engineering with a major in mechanical engineering, students must complete a minimum of 128 credits, demonstrate writing proficiency (see Undergraduate degree requirements) and meet the following requirements:

Credits

4/18/02 2:51 PM

24

General Education (excluding mathematics and science)











Mathematics and science MTH 154-155 Calculus 8 MTH 254 Multivariable Calculus 3 MTH 256 Introduction to Linear Algebra APM 257 Introduction to Differential Equations CHM 143 Chemical Principles (or CHM 162) 8 PHY 151-152 Introductory Physics 4 Approved science elective* Engineering core EGR 101 Introduction to Engineering EGR 401 Professional Engineering **CSE 141** Computer Problem Solving in Engineering and Computer Science **CSE 171** Introduction to Digital Logic and Microprocessors EE 222 Introduction to Electrical Circuits ME 221 Statics and Dynamics ME 241 Thermodynamics SYS 317 Engineering Probability and Statistics SYS 325 Lumped Parameter Linear Systems 28 Professional subjects Required: ME 321 Dynamics and Vibrations ME 331 Introduction to Fluid and Thermal Energy Transport ME 361 Mechanics of Materials ME 372 Properties of Materials

Professional design requirements

Choose one course from Group A and one from Group B:

Group A ME 486 ME 487	Mechanical Systems Design (4) Mechanical Engineering CAD/CAM Systems (4)
Group B ME 456 ME 482	Energy Systems Analysis and Design (4) Fluid and Thermal Systems Design (4)

Also choose at least three credits from, Senior Mechanical Engineering Design Project, ME 492, or Senior Project, ME 490. Credits from ME 492 and ME 490 should belong to, and be counted toward, one of the professional options listed below. Students who elect the Manufacturing Engineering option are required to select ME 493.

Professional options

1. General mechanical engineering option (15 credits)

Professional electives (chosen from the following if not taken to satisfy Group A and B design requirements)

ME 423	Acoustics and Noise Control (4)
MT 420	F1 · 1 T (4)

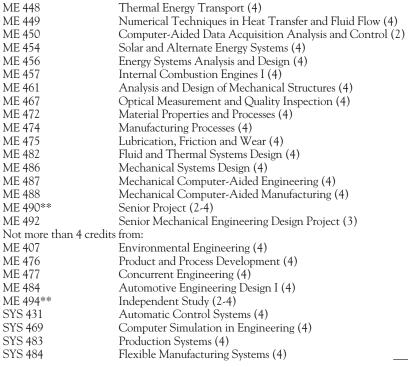
ME 439 Computational Fluid Dynamics (4)





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15

2. Fluid and thermal systems option (15 credits)

Required subjects

ME 438	Fluid Transport (4)
ME 448	Thermal Energy Transport (4)
ME 482	Fluid and Thermal Systems Design (4)

Professional electives (chosen from the following if not taken to satisfy Group A and B $\,$

design requirements)

design requirements)	
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 450	Computer-Aided Data Acquisition Analysis and Control (2)
ME 454	Solar and Alternate Energy Systems (4)
ME 456	Energy Systems Analysis and Design (4)
ME 457	Internal Combustion Engines I (4)
ME 492	Senior Mechanical Engineering Design Project (3)
ME 490**	Senior Project (2-4)
No more than 4 credits	from:
ME 494**	Independent Study (2-4)
SYS 431	Automatic Control Systems (4)

15







3. Computer-aided design option (15 credits)

Required subjects

ME 461 Analysis and Design of Mechanical Structures (4)
ME 487 Mechanical Computer-Aided Engineering (4)

Professional electives (chosen from the following if not taken to satisfy Group A and B

design requirements)

ME 449 Numerical Techniques in Heat Transfer and Fluid Flow (4)

ME 472 Material Properties and Processes (4)
ME 486 Mechanical Systems Design (4)

ME 492 Senior Mechanical Engineering Design Project (3)

ME 490** Senior Project (2-4)
ME 494** Independent Study (2-4)

No more than 4 credits from:

SYS 431 Automatic Control Systems (4)

SYS 463 Foundations of Computer-Aided Design (4)

15

4. Automotive Engineering option (15 credits)

Automotive Structures Specialty

Required subjects

ME 461 Analysis and Design of Mechanical Structures (4)

ME 484 Automotive Engineering Design I (4)

or

Internal Combustion Engines Specialty

Required Subjects

ME 456 Energy Systems Analysis and Design (4)
ME 457 Internal Combustion Engines I (4)
ME 482 Fluid and Thermal Systems Design (4)

Professional electives (chosen from the following if not taken to satisfy Group A and B

design requirements)

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 449 Numerical Techniques in Heat Transfer and Fluid Flow (4)
ME 450 Computer-Aided Data Acquisition Analysis and Control (2)

ME 456 Energy Systems Analysis and Design (4)
ME 457 Internal Combustion Engines I (4)

ME 461 Analysis and Design of Mechanical Structures (4)
ME 467 Optical Measurement and Quality Inspection (4)

ME 472 Material Properties and Processes (4)
ME 475 Lubrication, Friction and Wear (4)
ME 482 Fluid and Thermal Systems Design (4)
ME 484 Automotive Engineering Design I (4)
ME 486 Mechanical Systems Design (4)

ME 487 Mechanical Computer-Aided Engineering (4)

ME 490** Senior Project (2-4)

ME 492 Senior Mechanical Engineering Design Project (3)

Not more than 4 credits from:

pg. 331-381

ME 476 Product and Process Development (4)

ME 477 Concurrent Engineering (4)







ME 494**	Independent Study (2-4)
EE 473	Automotive Electronics (4)
SYS 431	Automotive Control Systems (4)
SYS 475	Automotive Mechatronics I (4)

15

5. Manufacturing Engineering option (15 credits)

Students selecting this option must complete a required form before taking courses for this option, and they should have completed the engineering core and professional subjects requirements of the mechanical engineering curriculum.

Required subjects

ME 474 Manufacturing Processes (4) SYS 484 Flexible Manufacturing Systems (4)

ME 467 Optical Measurement and Quality Inspection (4)

or SYS 485 Statistical Quality Control (4)

ME 493 Senior Manufacturing Engineering Design Project (3)

Suggested professional electives. Students are urged to consider selecting one of the following courses to satisfy their free electives requirement:

ME 461	Analysis and Design of Mechanical Structures (4)
ME 467	Optical Measurement and Quality Inspection (4)
ME 472	Material Properties and Processes (4)
ME 475	Lubrication, Friction and Wear (4)
ME 476	Product and Process Development (4)
ME 477	Concurrent Engineering (4)
ME 482	Fluid and Thermal Systems and Design (4)
ME 486	Mechanical Systems Design (4)
ME 487	Mechanical Engineering CAD/CAM Systems (4)
ME 488	Mechanical Computer-Aided Manufacturing (4)
SYS 422	Robotic Systems (4)
SYS 431	Automatic Control (4)
SYS 469	Computer Simulation in Engineering (4)
SYS 483	Production Systems (4)
SYS 485	Statistical Quality Control (4)
ME 490**	Senior Project (2-4)
ME 494**	Independent Study (2-4)

15

Free electives (may be used to satisfy writing proficiency and programming recommendations)

4

For limitations on free electives see Policies on electives.

364

Total 128

*Approved science electives for computer engineering majors are: biology courses numbered 111, 113 and higher; CHM 163 and chemistry courses numbered 234 and higher, except CHM 497; physics courses numbered 317 and higher, except PHY 341; environmental health courses ENV 308 and 373; those most highly recommended for mechanical engineering students are PHY 331, 366, 371, CHM 163, BIO 111 and 205. Special topics and independent study courses require prior approval.

**Needs prior permission of the chairperson of the Department of Mechanical Engineering.

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.

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 101, MTH 154, CHM 143, CSE 141, rhetoric or general education, 17 credits; winter semester: MTH 155, PHY 151, CSE 171, general education, 16 credits.

Sophomore year — fall semester: MTH 254, PHY 152, ME 221 or 241, general education, 16 credits; winter semester: APM 257, EE 222, ME 221 or 241, general education, 15 credits.

Junior year — fall semester: MTH 256, ME 321 and 331, SYS 325, general education, 17 credits; winter semester: ME 361, 372, free or professional elective, science elective, 16 credits.

Senior year — fall semester: SYS 317, EGR 401, ME 492 or 493 or 490, professional subject, general education, 15 credits; winter semester: four professional subjects, 16 credits.







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, demonstrate writing proficiency (see *Undergraduate degree requirements*) and meet the following requirements:

General education (exclu	ading mathematics and science)	24
Mathematics and physics	3	
MTH 154-155	Calculus	8
MTH 254	Multivariable Calculus	4
APM 257	Introduction to Differential Equations	
PHY 151-152	Introduction to Physics	8
	,	23
Chemistry		
CHM 157-158	General Chemistry (or CHM 167-168) (or CHM 162-168	3) 10
CHM 234-235	Organic Chemistry	
CHM 237	Organic Chemistry Laboratory I	
CHM 325	Analytical Chemistry	4
CHM 342-343	Physical Chemistry	
CHM 348	Physical Chemistry Laboratory	
CHM 471	Macromolecular Chemistry	
	poratory course (two or three credits) above CHM 400	2 (3
		39(40
Engineering		
EGR 101	Introduction to Engineering	
EGR 401	Professional Engineering	
CSE 141	Computer Problem Solving in Engineering and	
	Computer Science	4
CSE 171	Introduction to Digital Logic and Microprocessors	
EE 222	Introduction to Electrical Circuits	4
ME 221	Statics and Dynamics	4
ME 241	Thermodynamics	4
ME 331	Introduction to Fluid and Thermal Energy Transport	4
SYS 325	Lumped Parameter Linear Systems	
	,	29
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)







128

Total



ME 456	Energy Systems Analysis and Design (4)	
ME 457	Internal Combustion Engines I (4)	
ME 482	Fluid and Thermal Systems Design (4)	
SYS 431	Automatic Control Systems (4)	
		8
Free electives (may	be used to satisfy writing proficiency)	
For limitations or	n free electives see Policies on electives.	5 (4)

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.

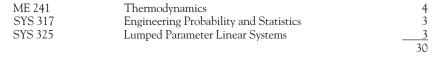
To earn the degree of Bachelor of Science with a major in engineering physics, students must complete a minimum of 128 credits, demonstrate writing proficiency (see *Undergraduate degree requirements*) and meet the following requirements:

requirements) and meet the	U 1	
General education (exclu	ding mathematics and science)	Credits 24
Mathematics and science	s	
MTH 154-155	Calculus	8
MTH 254	Multivariable Calculus	4 3
APM 257	Introduction to Differential Equations	
CHM 143	Chemical Principles (or CHM 162)	4
PHY 151-152	Introductory Physics	8
PHY 158	Physics Laboratory	2
PHY 317	Modern Physics Laboratory	4 8 2 2 4
PHY 351	Intermediate Theoretical Physics	4
PHY 361	Mechanics I	4
PHY 371	Modern Physics	4
1 ,	rsics in addition to any required in options below, chosen fr	om:
PHY 331	Optics (4)	
PHY 366	Vibrations and Waves (4)	
PHY 381	Electricity and Magnetism I (4)	
PHY 472	Quantum Mechanics I (4)	4
		47
Engineering		
CSE 141	Computer Problem Solving in Engineering and Computer Science	4
CSE 171	Introduction to Digital Logic and Microprocessors	4
EE 222	Introduction to Electrical Circuits	4
EE 326	Electronic Circuit Design	4
ME 221	Statics and Dynamics	4





pg. 331-381 367 4/18/02, 2:51 PM



Professional option

(The following two options are offered as typical. 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	3
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)	
SYS 410	Systems Optimization and Design (4)	
		11

Applied mechanics option

ppiica incentines option	•	
PHY 366	Vibrations and Waves	4
ME 361	Mechanics of Materials	4
Design elective, choser	n 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)	
		12

Technical electives, chosen from:

MTH 256	Introduction to Linear Algebra (3)
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
EE 345	Electric and Magnetic Fields (3)
PHY 418	Modern Optics Laboratory (2)
PHY 472	Quantum Mechanics I (4)
PHY 482	Electricity and Magnetics II (4)
EE 351	Electromechanical Energy Conversion (3)
EE 378	Design of Digital Systems (4)
EE 384	Electronic Materials and Devices (3)
ME 331	Introduction to Fluid and Thermal Energy Transport (4)
ME 361	Mechanics of Materials (4)
Any 400-level EE, ME	or SYS courses (4-8)

Free electives (can be used to satisfy writing proficiency)

For limitations on free electives, see Policies on electives.

368

Total 128

7-8

7-9









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: computer science and engineering courses, CSE; electrical engineering courses, EE; systems engineering courses, SYS; 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 101 Introduction to Engineering (1)

Introduction to the various disciplines of engineering. The course will be a series of weekly lectures on topics in engineering. Offered fall, winter. ($Graded\ S/U$)

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 401 Professional Engineering (1)

Seminars of professional interest to engineers, including such topics as professionalism, ethics, engineering law, engineering economics and technical communications. Graded S/U. Offered fall. Prerequisite: Senior status in engineering.

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.

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 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. Satisfies the university general education requirement in mathematics, logic and computer science.

Prerequisite: MTH 012 or equivalent.





pg. 331-381 369 4/18/02, 2:51 PM



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. Satisfies the university general education requirement in mathematics, logic and computer science. Prerequisite: 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.

Corequisite: 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. Prerequisite: CSE 141 and MTH 154.

CSE 220 Computer Programming for Business Applications (4)

Introduction to business applications using Visual Basic. Emphasis is on structured programming and topdown 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.

Prerequisite: CSE 130 or CSE 141.

CSE 230 Object-Oriented Computing I

Introduction to object-oriented computer programming using a high-level programming language such as C++. 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.

CSE 231 Object-Oriented Computing II

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 Computer Based Information Networks (4)

An introduction to networking methodologies and implementation. Topics covered include peer-to-peer networking, server/client networking, intranets, wide area networks, necessary communications hardware, and Internet servers. These topics will be applied using various platforms such as Microsoft, Macintosh, Novell Netware and Unix Networking systems.

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. A fully functional e-commerce application is developed using the software packages discussed in class.

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.





pg. 331-381 370 4/18/02, 2:51 PM



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. The course will culminate with a student project encompassing all of the major course topics. 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. Prerequisite: CSE 231, MTH 256 and major standing.

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.

Prerequisite: CSE 361 and major standing.

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. Prerequisite: 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.

Prerequisite: 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)

An overview of software development processes, tools, and techniques from the perspective of learning what they can and cannot do; deciding when, how and why to apply them; and selecting among the 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. Offered fall.

Prerequisite: CSE 361 or equivalent, major standing.

CSE 445 Database Systems (4)

Design and implementation of relational, hierarchical and network database systems. Query/update data languages, conceptual data model, physical storage methods, database system architecture. Database security and integrity. Relational database systems are emphasized. The course has a significant laboratory component involving the use of commercial database software to retrieve information in various forms. Offered fall, winter.

Prerequisite: CSE 361 and 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.





pg. 331-381 371 4/18/02, 2:51 PM



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. Prerequisite: CSE 361 and major standing.

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. Prerequisite: 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.

Prerequisite: 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.

ELECTRICAL ENGINEERING

EE 101 Introduction to Electrical and Systems Engineering (2)

Basic problem solving techniques of electrical and systems engineering. The course is centered around design/analysis projects which students carry out in small groups in a laboratory setting. One lecture/laboratory per week. Can be used to satisfy EGR 101 requirement in electrical engineering. Credit cannot be received for both EE 101 and SYS 101.

EE 222 Introduction to Electrical Circuits (4)

Resistive dc circuits, Kirchhoff laws, Thevenin and Norton theorems, controlled sources, superposition, source transformations. Transient and forced responses in RC, RL and RLC circuits; impedance concept and phasors, RMS values and average power. Use of PSPICE. With laboratory. Offered fall, winter. Prerequisite: MTH 155 and PHY 152.

EE 326 Electronic Circuit Design (4)

Characteristics and models of diodes and bipolar and unipolar transistors. Analysis and design of circuits employing these devices, including power supplies, voltage regulators, amplifiers. Operational amplifiers as design elements. Use of PSPICE software. With laboratory emphasizing design. Offered fall, winter. Prerequisite: EE 222 and major standing. Recommended corequisite: EE 384.

4/18/02 2:51 PM







EE 345 Electric and Magnetic Fields (3)

Introduction to electromagnetic fields, Maxwell's equations, electrostatics, magnetic fields of steady currents, time varying fields. Introduction to wave phenomena, transmission lines, plane waves. Offered fall.

Prerequisite: MTH 254, EE 222 and major standing.

EE 351 Electromechanical Energy Conversion (3)

Magnetic circuits, transformers, necessary conditions of energy conversion. Power sources: batteries, dc and ac machines. Equivalent circuits, input/output characteristics, torque and power analysis and efficiency. Design considerations for electrical machine drives. With laboratory. Offered winter. Prerequisite: SYS 325.

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 laboratory. Offered fall, winter. Prerequisite: CSE 171 and major standing.

EE 384 Electronic Materials and Devices (3)

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 P-N junction and metal semi-conductor diodes. Bipolar transistors and unipolar field effect devices. Offered fall.

Prerequisite: Major standing.

EE 426 Advanced Electronics (4)

Transistor circuit design and analysis. Multistage small signal and power amplifier design, feedback, frequency response, stability and sensitivity. Design and analysis of linear/nonlinear circuits with operational amplifiers and other integrated circuits. Design of signal generators. Emphasis on designing through laboratory experiments and projects. Offered winter. Prerequisite: EE 326 and SYS 325.

EE 428 Industrial Electronics (0-4)

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 326 and SYS 325.

EE 437 Communication Systems (4)

Frequency domain analysis of signals and systems using Fourier series and Fourier transform techniques, power spectral density. Filtering. Analog modulation techniques, such as, AM, FM, PM Source coding and baseband digital signaling techniques. Digital modulation techniques, such as, ASK, FSK, PSK Multiplexing, such as, TDM, FDM Introduction to performance of communication systems in presence of noise. With laboratory.

Prerequisites: EE 326, SYS 317 and SYS 325.

EE 445 Electronic Engineering (4)

Electromagnetic theory with applications. Diffraction, radiation, propagation, guided waves, optical transmission and resonant cavities. Offered winter.

Prerequisites: EE 345 and SYS 325.

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 by Courses: EE 345, SYS 325, EE326, EE 378. Recommended Co-requisite: EE 437





pg. 331-381 373 4/18/02, 2:51 PM

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. Prerequisite: EE 326 or EE 473 and SYS 431.

EE 473 Automotive Electronics (0-4)

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: EE 222. Corequisite: SYS 325.

EE 475 Automotive Mechatronics I (4)

Overview of mechatronics; modeling, simulation, characterization and model validation of electromechanical 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: SYS 325.

EE 485 VLSIC 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 384 or equivalent.

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 492 Senior Design I (2)

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.

Prerequisite: EE 326, 378 and either EE 345 or 351.

Corequisite: EE 437 or SYS 431.

EE 493 Senior Design II (3)

Prototyping, testing and completion of the project begun in EE 492. Presentation of results orally in class and in a documented final report.

Prerequisite: EE 492.





pg. 331-381 374 4/18/02, 2:51 PM



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.

MECHANICAL ENGINEERING

ME 106 Machine Shop Practice (2)

Introduction to basic machining principles and machine shop techniques, uses of lathes, milling machines and other power machines. Emphasis is on practical experience.

ME 208 Computer-Aided Engineering Graphics (4)

Engineering sketching, engineering drawing interpretation. Use of computer software CATIA in engineering graphics: 2D and 3D geometric construction; orthographic projection; multiview layout; sectional and auxiliary views; dimensioning and tolerancing; exploded assembly drawings; solid modeling; Boolean operations; surface creation and intersection; surface rendering. Offered fall, winter.

ME 221 Statics and Dynamics (4)

Introduction to engineering mechanics. Static equilibrium of particles and rigid bodies; analysis of trusses, frames, machines; centroids, internal forces in beams, friction, moments of inertia. Dynamics of particles: kinematics, kinetics, energy and momentum methods. With laboratory. Offered fall, winter. Prerequisite: MTH 155. Corequisite: PHY 151.

ME 241 Thermodynamics (4)

The fundamentals of classical thermodynamics. The various forms of energy, and the effects of conversions and energy transfers on system and material properties. Thermodynamic property relationships are studied along with the fundamental laws of thermodynamics. Applications to engineering systems and processes. Laboratory emphasizes experimental design. Offered fall, winter. Prerequisite: CHM 143, MTH 155, PHY 151.

ME 321 Dynamics and Vibrations (3)

 $Dynamics \ of \ systems \ of \ particles \ and \ rigid \ bodies: \ kinematics, \ kinetics, \ energy \ and \ momentum \ methods.$ Introduction to mechanical vibrations: free and forced vibrations of particles and single-degree-of-freedom systems of rigid bodies with and without damping. Offered fall.

Prerequisite: ME 221, APM 257. Corequisite: SYS 325.

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: ME 221, 241; MTH 254 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 221. Corequisite: ME 372.

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.

Prerequisite: CHM 143, PHY 152 and major standing.









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. Offered spring.

Prerequisite: ME 331, APM 257.

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 241, 331 and APM 257.

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 fall, odd years. Prerequisite: ME 331; Corequisites: ME 438, or approval of instructor; knowledge of a programming language

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 241, 331 and APM 257.

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. Offered winter.

Prerequisite or corequisite: ME 438 or 448 or equivalent.

ME 450 Computer-Aided Data Acquisition Analysis and Control (2)

Introduction to and a "hands-on" experience with computer-aided data acquisition, analysis and control as it relates to fluid and thermal experimentation and measurements. Topics include computer hardware and software, a variety of measurement and control instrumentation, communication between instrumentation and computer, ASYST programming language, instrument operation and calibration, data acquisition and analysis. Design-oriented laboratory projects.

Corequisite: ME 482.

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 241 and 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.

Prerequisite: ME 241 and major standing.





pg. 331-381 376 4/18/02, 2:51 PM



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. Prerequisite: 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. Prerequisite: ME 321, 361, and senior standing in Engineering.

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, 372.

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. With laboratory. Offered fall and winter. Prerequisite: ME 331, 372.

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. Prerequisite: ME 331, 372 and senior standing in Engineering.

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.

Prerequisite: SYS 317. Corequisite: ME 486 or 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 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 241, 331 and APM 257.





pg. 331-381 377 4/18/02, 2:51 PM



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. Prerequisite: 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. Prerequisite: 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.

Prerequisite: ME 361. Corequisite: ME 321.

ME 488 Mechanical Computer-Aided Manufacturing (4)

Use of CATIA in various aspects of manufacturing processes. ĞD&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 topis. Offered winter. Prerequisite: ME 361, CATIA fundamentals or permission from instructor.

ME 490 Senior Project (2 to 4)

Work on advanced laboratory 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

Prerequisite: Senior standing and consent of supervising faculty.

ME 492 Senior Mechanical Engineering Design Project (3)

Team experience in engineering design of systems, components or processes involving mechanical and/or fluid and thermal sciences. Emphasis will be given to the design process, utilizing the fundamental concepts, principles and methodologies encountered in earlier course work. Projects will be supervised by mechanical engineering faculty. Normally taken during senior year. Offered fall, winter. Prerequisite: ME 331, 361 and approval of project faculty supervisor.

ME 493 Senior Manufacturing Engineering Design Project (3)

Team experience in manufacturing engineering design, including materials and manufacturing processes; process assembly and product engineering; manufacturing productivity and quality; and manufacturing integration methods and system design. Projects will be supervised by mechanical engineering faculty. Must be taken only during the student's last semester before graduation. Offered fall, winter. Prerequisites: ME 474.

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.

SYSTEMS ENGINEERING

SYS 101 Introduction to Electrical and Systems Engineering (2)

Basic problem solving techniques of electrical and systems engineering. Course is centered around design/analysis projects which students carry out in small groups in a laboratory setting. One lecture/laboratory per week. Can be used to satisfy EGR 101 requirement in systems engineering. Credit cannot be received for both SYS 101 and EE 101.





pg. 331-381 378 4/18/02, 2:51 PM



SYS 317 Engineering Probability and Statistics (3)

Probability and statistics for discrete and continuous random variables; examples and problems from various areas of engineering illustrate developments and applications. Finite sample spaces, two or more events, random variables, distribution functions, expected value, two or more random variables; introduction to statistics, sampling distributions, parameter estimation and hypothesis testing. Offered fall, winter.

Prerequisite: Major standing. Corequisite: MTH 254 or 256.

SYS 325 Lumped-parameter Linear Systems (3)

Laplace transform methods, transfer functions and impedance concepts in the analysis of electrical and mechanical lumped-parameter linear systems. Natural and forced behavior of first-, second-, and higher-order systems. Relationship between pole-zero pattern and dynamic response. Frequency response methods; Fourier analysis of signals. Computer techniques for analysis and design. Offered fall, winter. Prerequisite: EE 222, ME 221, APM 257 and major standing.

SYS 410 System Optimization and Design (4)

Classical optimization techniques, Lagrange multipliers and Kuhn-Tucker conditions. Computer techniques for system optimization including linear programming, constrained and unconstrained nonlinear programming. Introduction to global optimization and genetic algorithms. System design case studies. Emphasis on a design experience involving system modeling, simulation and optimal design. Prerequisite: MTH 256 and SYS 325.

SYS 422 Robotic Systems (4)

Overview of industrial robots, 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 robot language environment using minirobots. Demonstrations and applications using industrial robots. Offered fall.

Prerequisites: CSE 131 and SYS 325.

SYS 431 Automatic Control Systems (4)

Performance specifications for feedback control systems. Modeling, transfer functions, block diagrams, signal flow graphs, Mason's formula. Static error coefficients, stability theory, Routh's criterion. Root locus and frequency response; Nyquist criterion. Design of proportional, integral and derivative controllers; compensation networks. Laboratory analysis of practical systems. Offered fall, winter. Prerequisite: SYS 325.

SYS 433 Modern 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. With laboratory. Offered fall. Prerequisite: SYS 431.

SYS 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: SYS 325.

SYS 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.

SYS 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: SYS 317, 325.





pg. 331-381 379 4/18/02, 2:51 PM



SYS 475 Automotive Mechatronics I (4)

Overview of mechatronics; modeling, simulation, characterization and model validation of electromechanical 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: SYS 325.

SYS 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 SYS 477 and ME 477.

Prerequisite: Senior standing.

SYS 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: SYS 317.

SYS 484 Flexible Manufacturing Systems (4)

The components of flexible manufacturing systems (FMS): CNC machining centers, automated assembly, automated warehousing (AS/RS), inspection, material transport, programmable logic controllers and coordination; integration of CAD/CAM to the FMS; production planning and control; factory simulation; implementation strategies. With laboratory. Offered winter. Prerequisite: Major standing.

SYS 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 and spring. Prerequisite: SYS 317.

SYS 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: Senior standing.

SYS 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.

SYS 492 Senior Design I (2)

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.

Prerequisite: Dynamics and Control Option: EE 326, 378, SYS 431.

Manufacturing Option: SYS 484, 485.

Corequisite: Dynamics and Control Option: EE 351.

Manufacturing Option: SYS 422 or 483.

SYS 493 Senior Design II (3)

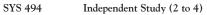
Prototyping, testing and completion of the project begun in SYS 492. Presentation of results orally in class and in a documented final report.

Prerequisite: SYS 492.





pg. 331-381 380 4/18/02, 2:51 PM



Advanced individual study in a special area. Topic must be approved prior to registration. May be taken more than once.

SYS 495 Special Topics (2 to 4)
Advanced study of special topics in engineering. May be taken more than once.





pg. 331-381 381 4/18/02, 2:51 PM



GENERAL STUDIES

416 VARNER HALL (248) 370-3229

Director: Carole L. Crum

Faculty Council for General Studies: Isaac Eliezer, professor, Chemistry; Niels Herold, associate professor, English; Linda Hildebrand, assistant professor, Kresge Library; Alice Horning, professor, Rhetoric/Linguistics; Kevin Nathan, associate professor, Accounting; Subbaiah Perla, professor, Mathematics and Statistics; Ann Pogany, assistant professor, Kresge Library; Brian Sangeorzan, associate professor, Engineering; Justine Speer, professor, Nursing; Mary Ann Weller, assistant professor, Health Sciences; Martha Zingo, associate professor, Political Science

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 Academic Services and General Studies (416 Varner Hall, 248-370-3229, bgs@oakland.edu).

As 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





pg. 382-384 382 4/18/02, 2:52 PM



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 follows 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 writing proficiency requirement.
- 3. Complete the general education requirements. (See Undergraduate degree requirements.)
- Complete the university ethnic diversity requirement. (See Undergraduate degree requirements.)
- Complete a minimum of 124 semester credits.
- 6. Complete 32 of those credits at the 300 or 400 level.





pg. 382-384 383 4/18/02, 2:52 PM



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 (416 Varner 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.





pg. 382-384 384 4/18/02, 2:52 PM



SCHOOL OF HEALTH SCIENCES

363 HANNAH HALL

(248) 370-3562 Fax: (248) 370-4227

Dean: Ronald E. Olson

Office of the Dean: Ronald M. Mattei, assistant dean; A. Jayne Berry, academic adviser; Alfred W. Stransky, director, Meadow Brook Health Enhancement Institute

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:

Anthony Tersigni, Ed.D., (Chair) Executive Vice President and COO, Ascension Health System John Hoffman, Ph.D., President, Safety Engineering Labs, Inc.

Elliott Joseph, M.H.S.A., President and CEO, St. John Health System

John Labriola, M.B.A., Senior Vice President and Hospital Director, William Beaumont Hospital -Royal Oak

Patrick Lamberti, M.B.A., President and CEO, POH Medical Center Barbara Moore, M.S., R.N., Executive Vice President and COO, St. Joseph Mercy-Macomb Joseph Tasse, M.S., Chief Administrative Officer, Oakwood Healthcare Corporation

General Information

The School of Health Sciences offers degree and nondegree programs in health and medically related fields. Bachelor of Sciences degree options include health sciences, prephysical therapy, industrial health and safety and medical laboratory sciences. Programs leading to the Master of Science degree include exercise science. The School of Health Sciences also offers a Doctor of Physical Therapy degree. Nondegree programs include exercise science and health behavioral sciences at the undergraduate level and graduate certificates in orthopedic manual physical therapy, pediatric rehabilitation, clinical exercise science, complementary medicine and wellness, corporate and worksite wellness, exercise science, and preventative medicine 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).

The Meadow Brook Health Enhancement Institute is a university facility of the School of Health Sciences. The institute offers programs addressing health promotion and disease prevention, including programs for health maintenance, cardiac rehabilitation, diabetic health, women's health, nutrition, weight control, stress management, smoking cessation,





pg. 385-412 385 4/18/02, 2:52 PM



and others. The full-time staff of the institute provides these programs to the university community as well as to the public at large through individual or corporate associations.

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.

Health sciences core curriculum

The health sciences core curriculum is a common component of introductory course work required for each of the baccalaureate programs offered through the School of Health Sciences. The core curriculum also represents an appropriate starting point for undecided health sciences students, since its flexibility allows for entry into any of the health sciences programs at Oakland University, as well as most health sciences degree programs at other universities.

The program in industrial health and safety does not incorporate a preprofessional component; thus, students may declare this major upon entry to the university. In this case, the core curriculum will be completed during the course of the industrial health and safety program. Early completion of some of the core curriculum courses is recommended, since they are prerequisites to required advanced courses in the industrial health and safety program.

The academic requirements for each of the baccalaureate programs of the school are described in the pages that follow. In addition to the core curriculum, the requirements include additional prerequisite-level course work that complements the core curriculum, the program major course requirements, the university general education and ethnic diversity requirements and the university writing proficiency requirement.

Students completing the core curriculum course work at Oakland University may, in some instances, substitute equivalent or higher level courses for core curriculum courses; this action must be approved by the appropriate program director and the School of Health Sciences Committee on Instruction. 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.

Core curriculum courses*

BIO 111; 207 or 321 STA 225 or 226 CHM 157-158 PHY 101-102 or 151-152 MTH* HBS 200**

*See the academic requirements of the individual health sciences programs for core curriculum course preferences or requirements.

**This course satisfies the university ethnic diversity requirement.

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). Freshman and transfer orientation advising is required of all entering students. Thereafter,





pg. 385-412 386 4/18/02, 2:52 PM



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.

An elective course, HS 102, Career Exploration in the Health Sciences, is offered to provide students with resources, skills and experiences necessary to make a reasonable choice for their major and career. Included in this course are seminars presented by health care professionals from a variety of disciplines.

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.

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

Associate professors: Brian R. Goslin, Robert W. Jarski, Charles R. C. Marks, Alfred W. Stransky

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.





pg. 385-412 387 4/18/02, 2:52 PM



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 minor in exercise science is available to students 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 health sciences or a Bachelor of General Studies plan of work. Courses required for the minor include: HS 201; EXS 204, 304*, 350*; and 6 credits from the following electives: EXS 101-105* (4 credits maximum will count toward the minor; EXS 103* and one other elective from EXS 101-105 are required to satisfy the prerequisite for the M.S. in Exercise Science program), 202, 207*, 215, 321, 360, 405, 410, 425, 435, 445, 450, 465, 493 (2 credits maximum). 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

Note regarding EXS 101, 102, 104 and 105: Because of similar course content, students enrolling in more than one of these courses may not repeat the lectures or final examination, but must complete an independent project and/or a different final examination.

EXS 101 Exercise (Jogging) and Health Enhancement (2)

Examination of lifestyle factors related to disease prevention and improved quality of life. Combines regular walking-jogging exercise and health enhancement lectures. Fall and winter semesters.

EXS 102 Exercise (Swimming) and Health Enhancement (2)

Examination of lifestyle factors related to disease prevention and improved quality of life. Combines regular swimming exercise and health enhancement lectures. Fall and winter semesters.

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 104 Exercise (Aerobics) and Health Enhancement (2)

Examination of lifestyle factors related to disease prevention and improved quality of life. Combines regular aerobic exercise and health enhancement lectures. Fall and winter.

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 in odd numbered years.

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. Winter and spring semesters.

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 and spring.





pg. 385-412 388 4/18/02, 2:52 PM



EXS 215 Stress Management (2, 3 or 4)

Concepts and techniques to enable students to manage stress more effectively. Offered every term.

EXS 304 Exercise Physiology (4)

Effects of exercise and physical training on the physiological systems of the body, with emphasis on cardiorespiratory systems. Includes muscle contraction mechanisms, circulatory and respiratory adjustment during exercise, and nutrition for physical activity. Laboratory experiences are provided for insight into the dynamics of human performance. Fall and winter semesters. Prerequisite: BIO 111 and 207.

EXS 321 Basic Athletic Training (2)

Identical with PT 321.

Prerequisite: BIO 205, 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.

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 spring. Prerequisite: PSY 100; EXS 204 or 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 fall, winter, spring, summer. Prerequisite: EXS 304, 350, program 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 term in odd-numbered years. Prerequisite: BIO 111 and 207, or instructor's permission. BIO 205 recommended.

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 microand macro-environments, including temperature, altitude, precipitation, light, noise and sociocultural 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 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 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 Behavioral Sciences Program

Acting Director: Ronald E. Olson

Professors: Ronald E. Olson, Philip Singer Clinical professor: Daniel E. DeSole

Clinical associate professor: Michael N. Musci Adjunct associate professor: Guido Giarelli Clinical assistant professor: Gian Carlo Decimo

Adjunct assistant professors: J. Carlos Borrego, William Dobreff, Anthony R. Tersigni,

Marco G. Vascon

Consulting assistant professor: Steven King

Courses in health behavioral sciences are recommended as electives for students pursuing degree programs offered by the School of Health Sciences. Students interested in a program in health services administration should consult the Department of Political Science in order to combine courses in health behavioral sciences with a program in public administration.

Concentration in health behavioral sciences

The concentration in health behavioral sciences should be taken in conjunction with a regular departmental major or independent major. Its purpose is to offer a multidisciplinary perspective of the behavioral sciences on the many and varied aspects of the health disciplines, problems and concerns. It provides a cross-cultural as well as an American perspective. It is especially relevant to students seeking careers in health-related fields, and it offers significant insights and opportunities for study to students pursuing programs in general education, administration and law.

The requirement for the concentration in health behavioral sciences is successful completion of 20 credits, chosen from: HBS 200, 300, 359, 400 and 499; AN 333 and 420; and PA 568 and 569.









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*.

HBS 200 Health Care Dimensions (4)

Development, present status and dynamics of the American health care system, emphasizing structure of the various health professions and the problems, opportunities and constraints of health care delivery and professionalism. Other topics are relationships between the health care cultures and personality and professional roles of health care practitioners, and issues involving hospitals and health care. Satisfies the university ethnic diversity requirement.

HBS 300 Independent Study in the Health Behavioral Sciences (4, 8, 12 or 16)

A semester of off-campus independent study and applied research. Projects are developed with and supervised by faculty within the framework of methodology and explanation in the behavioral sciences. May be repeated for a maximum of 16 credits.

HBS 359 Public Policy and Health Care (4) Identical with PS 359.

HBS 400 Field Practicum in Health Behavioral Sciences (4, 8, 12 or 16)

Primarily for students seeking careers in health-related fields, this course is a supervised field placement combined with academic content and individually guided research. Students are placed with hospitals, government and voluntary health agencies, comprehensive medical service organizations, etc. May be repeated for a maximum of 16 credits.

HBS 450 Law, Values and Health Care (4)

An examination of the legal concepts, problems and institutions that shape and control professional responsibility, the problems associated with maintaining and terminating life, licensure and related questions in the organization and delivery of health care services.

HBS 499 Senior Seminar in Health Behavioral Sciences (4)

An integration of ideas, issues, and research dealing with the place and application of the behavioral sciences to health and medicine. Primarily for persons in the health behavioral sciences concentration or contemplating graduate programs in public health, health administration, medical or other professional schools.

Health Sciences Program

Professors: Gary D. Russi, Kenneth R. Hightower Consulting associate professor: Robyn Brown

Associate professor: Stafford C. Rorke

Clinical professors: Bernard Bercu, Moon J. Pak

Clinical associate professor: Frank E. Check, Deryk Jones

Clinical assistant professors: Muhammad N. Kahn, Todd Lininger, Kanamarlapudi Rao, Jeffrey P. Yanez

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, industrial health and safety, physical therapy and preprofessional 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 industrial health and safety focus area provides





pg. 385-412 391 4/18/02, 2:52 PM



exposure to the fundamental principles of this profession in preparation for further study in this field or as a complement to another career. The prephysical therapy focus area prepares students for the traditional application requirements for the Physical Therapy Professional Program. The preprofessional focus area incorporates basic science courses to prepare students for the traditional application requirements for the Doctor of Physical Therapy, as well as medical, dental, optometric and other professional schools.

Requirements for the B.S. degree with a major in health sciences

- Complete the writing proficiency requirement. In satisfying this requirement, students
 may need to complete RHT 150 and 160 (with grades of 2.0 or better), or their
 equivalents at another college or university. Not all credits associated with these
 courses will apply to the 136-140 credits required for the degree.
- Meet the university general education requirements (see Undergraduate degree requirements). In completing the health sciences core curriculum and additional required courses which complement the core curriculum, health sciences majors will automatically satisfy the requirements in mathematics, logic and computer science; natural science and technology; and social science.
- 3. Complete the university ethnic diversity requirement. For health sciences majors, this requirement is satisfied by completing the health sciences core curriculum course HBS 200.
- 4. Complete the health sciences core curriculum (see *Health sciences core curriculum*). MTH 141 is the required math core course for this program.
- 5. Complete these additional required courses which complement the core curriculum: BIO 205 or 381, BIO 206 or 322, HBS 450 or PHL 302 or 318, HS 401, PHY 158, PSY 100 or 130. Note: Students admitted to physical therapy major standing are not required to take the ethics course requirement listed above (HBS 450 or PHL 302 or 318). Ethical issues are covered in courses which are an integral part of the physical therapy focus area. BIO 381 may only be taken by students admitted to physical therapy major standing.
- 6. Complete the prescribed number of credits from the following courses: BIO 325; CHM 201; CSE 125; EXS 215, 304, 321, 360, 405, 445, 493; HRD 335; HS 201, 331, 451; IHS 305, 306, 315, 316; MLS 210; MTH 122 or 154; PSY 225 or 321 or 323, PSY 250, 333, 338, 344; SOC 328. The preprofessional academic focus requires 26 credits. The industrial health and safety academic focus requires 26 credits, which must include all IHS courses listed above. The exercise science academic focus requires 22 credits, which must include EXS 304, HS 201 and 451, and PSY 250. The pre-physical therapy academic focus requires 8 credits as follows: EXS 304, and PSY 225 or 321 or 323.
- Demonstrate evidence of computer literacy. This can be done by completing CSE 125
 (elective in paragraph 6) or by completing an appropriate self-study or community
 education course.
- Complete the course requirements specified under one of the four academic focus
 areas (exercise science, industrial health and safety, pre-physical therapy, or preprofessional 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:







- EXS 101-105 (EXS 103 and 1 other course), EXS 204, 207, 350, 401; PSY 344 (preferred) or 321, 323, 333, 338.
- 2. Complete 10 credits from the following list of electives: EXS 202, 215, 321, 360, 405, 410, 425, 435, 445, 450, 465, 493.

Industrial health and safety academic focus course requirements

Students completing the Bachelor of Science in health sciences with an academic focus in industrial health and safety must complete a minimum of 136 credits, including the following courses:

- 1. CHM 234, 235; IHS 403.
- 2. Complete 12 credits from the following list of electives: IHS 319, 410, 415, 420, 423, 430, 433, 451, 453, 460, 464 and 480.

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 136 credits, including the following requirements:

- 1. HS 201, 451; EXS 204, EXS 101 or 102 or 103 or 104 or 105.
- 2. MLS 210; EXS 207, 304, 350; PSY 225, 250, 321 or 323; PT 301, 321.
- 3. Minimum of 16 elective credits (including at least 10 credits at 300/400 level) from the following course list: BIO 323, 324, 325, 326, 341; CHM 201, 234-235, 237, 238, 453, 454, 457; CSE 125; EXS 215, 360, 405, 410, 425, 445, 450, 465, 493; MTH 122; PSY 225, 321, 323, 333, 338; SOC 328; HRD 335; WHP 300/400 (pending); HS 331, 405; HBS 359; PHY 326; PT 490.

Preprofessional academic focus course requirements

Students completing the Bachelor of Science in health sciences with an academic focus in preprofessional studies must complete a minimum of 136 credits, including the following courses: BIO 113, 323, 324, 325, 326, 341; CHM 234, 235, 237, 238.

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 102 Career Exploration in the Health Sciences (1)

An introductory course specifically for students considering a career in the health sciences. Students will be provided with resources, skills, and experiences necessary to make a reasonable choice for their major and career. Recommended for undecided health sciences and pre-physical therapy majors in their sophomore year.

HS 201 Health in Personal and Occupational Environments (4)

Current information about the impact of environmental and lifestyle factors on health. Examination of issues related to human exposure to physical, chemical and biological stresses. 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 university general education requirement in natural science and technology.





pg. 385-412 393 4/18/02, 2:52 PM



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 321.

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 321.

HS 405 Special Topics (2, 3 or 4)

May be repeated for additional credit. Prerequisite: Permission of instructor.

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.

Industrial Health and Safety Program

Acting Director: Richard J. Rozek

Associate professor: Richard J. Rozek

Adjunct associate professor: John M. Hoffmann

Adjunct instructors: Frank M. Cleary, Melissa Eddy, Patrick R. Frazee, Darryl C. Hill, Daniel Maser, Sarunas S. Mingela, Rico J. Odorico, Barbara R. Ondrisek, Thomas W. Schenk, James M. Weiskopf, Andrew P. Wood

Industrial health and safety is a specialized branch of the health professions focusing on the environment of workers. Professionals in this field strive to find and eliminate conditions in the work place that may result in occupational injury or disease. This is achieved through a process of anticipation, recognition, evaluation and control of the various stresses that contribute to unsafe working environments. These stresses may be of a mechanical, electrical, chemical, physical, biological or ergonomic nature.

The industrial health and safety program is multidisciplinary in nature, providing students with relevant exposure to basic science and behavioral science subjects as well as a thorough introduction to industrial hygiene and industrial safety concepts. A one-semester internship requirement provides students in the senior year of the program with firsthand field experience in the practice of this profession.

Graduates of the program will find employment opportunities within industrial firms; insurance companies; professional associations; local, state and federal government; and labor organizations.







Requirements for the B.S. degree with a major in industrial health and safety

Students seeking the Bachelor of Science degree with a major in industrial health and safety must complete a minimum of 136 credits, including the following requirements:

- Complete the writing proficiency requirement. In satisfying this requirement, students
 may need to complete (with grades of 2.0 or better) RHT 150 and 160 (or their
 equivalent at another college or university).
- Meet the university general education requirements (see Undergraduate degree requirements). In completing the health sciences core curriculum, industrial health and safety majors will automatically satisfy the requirement in natural science and technology.
- Complete the university ethnic diversity requirement. For industrial health and safety
 majors, this requirement is satisfied by completing the health sciences core curriculum
 course HBS 200.
- Complete the health sciences core curriculum. The biology sequence of BIO 111, 207 is preferred.
- 5. Complete BIO 205, CHM 234-235, HS 201, MTH 012 and PHY 158, which complement the core curriculum.
- Complete the major courses: IHS 300, 305, 306, 315, 316, 319, 403, 430, 433, 470. (IHS 470 may only be taken by students with major standing and a minimum 2.0 GPA in all IHS courses.)
- Complete 15 credits of program elective course work. Program elective courses may not be counted toward both the general education requirements and this requirement.
- Complete all math and science prerequisite courses within the health sciences core curriculum and all industrial health and safety required IHS courses with grades of 2.0 or higher.

Industrial health and safety program elective requirement

Industrial health and safety majors must complete 15 credit hours of courses selected to establish special expertise or give greater insight into the various aspects of professional occupational safety and health practice. At least four of the following courses must be included: IHS 410, 415, 420, 423, 451, 453, 460, 464. Courses cannot be counted toward both general education and the program elective requirement. A formal plan of study listing specific courses must be approved by the program director prior to senior status. Early plan approval is recommended. Forms are available from the School of Health Sciences academic adviser.

Minor in industrial safety

A minor in industrial safety is available to students majoring in other programs, such as environmental health, general studies, engineering, biology or chemistry. Courses required for the minor include: IHS 300, 315, 316, 319, 410, 415, 420 and 7 additional credits in IHS courses.





pg. 385-412 395 4/18/02, 2:52 PM



Grade point policy

Industrial health and safety majors must achieve minimum course grades of 2.0 in science core prerequisite courses and in required IHS 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.

IHS 210 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 IHS major requirements.

IHS 300 Industrial Experience (1)

Introduces students to various industrial environments through site visits and provides first hand experience of how health and safety professionals function in the workplace. Prerequisite: HS 201.

IHS 305 Industrial Environment I: Evaluations (4)

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 235, PHY 158.

IHS 306 Industrial Environment II: Controls (4)

Principles and practices on the control aspects (engineering, administrative, and personal protection) of chemical, physical and biological hazards in the industrial environment. Prerequisite: IHS 305.

IHS 315 Industrial Safety I: Engineering and Technology (4)

Safety principles and practices of the industrial environment. Engineering and technical information are discussed.

Prerequisite: HS 201.

IHS 316 Industrial Safety II: Administration and Programs (4)

Management aspects of the industrial environment. Administration techniques, governmental regulations, and programs for health and safety management are discussed. Prerequisite: IHS 315.

IHS 319 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: IHS 315.

IHS 403 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: BIO 207, CHM 235, IHS 306.

IHS 410 Health Care Facility Safety (3)

Critical health care associated risks, such as blood borne diseases, radiation, medical waste handling and back injuries, as well as the general topics of ergonomics, construction, hazardous waste and fire safety as they relate to diverse health care facilities.

Prerequisite: IHS 315 or permission of instructor.





pg. 385-412 396 4/18/02, 2:52 PM



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: IHS 315.

Robotic and Automation System Safety (3)

Information and issues related to worker safety in industrial environments where robots are used. The stateof-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: IHS 315.

IHS 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: IHS 306, PHY 102, 158 or permission of instructor.

IHS 430 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: IHS 306, 315.

IHS 433 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. Prerequisite: IĤS 306, 315.

Industrial Ventilation (3)

Design and control applications for reducing worker exposure to airborne contaminants. Concepts and principles of dilution and local exhaust ventilation. Methods for assessment of industrial ventilation systems required to prevent the accumulation of flammable or explosive concentrations of gases, vapors or dusts. Prerequisite: IHS 306, 315, PHY 158.

Industrial Noise Control (3)

Concepts in engineering controls required in the management of noise overexposure in industrial environments. Analysis of engineering design options and mechanical modifications effective in controlling worker exposure to undesirable industrial noise. Prerequisite: IHS 306, PHY 158.

IHS 460 Introduction to Epidemiology (3)

Introduction to the uses of epidemiology in public health practice, using selected diseases to illustrate the development of knowledge on disease causation and the application of such knowledge to disease control. Prerequisite: STA 225 or 226.

IHS 464 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. Prerequisite: ÎHS 316, BÎO 205.

Cross-listed with WHP 420

Industrial Health and Safety Internship (4)

Field training in industrial safety and health in close collaboration with professional industrial hygiene and safety personnel. Exposure to health and safety program planning and evaluation. May only be taken by students with major standing and minimum 2.0 GPA in all IHS courses. Graded S/U. Prerequisite: Program permission.

IHS 480 Special Topics (2, 3, or 4)

May be repeated for additional credit. Prerequisite: Permission of instructor.









IHS 490 Directed Study in Industrial Health and Safety (1, 2, 3 or 4)

Student initiated and problem-oriented independent study focusing on occupational health and safety issues. May be repeated for additional credit. Graded S/U. Prerequisite: Program permission.

Medical Laboratory Sciences Program

Director: Mary Ann Weller Professor: J. Lynne Williams

Assistant professor: Mary Ann Weller

Clinical professors: John D. Crissman, Howard J. Dworkin, Noel S. Lawson,

Joan C. Mattson, Frank A. Vicini Adjunct professor: Richard Berk

Clinical associate professors: Barbara Anderson, Ali-Reza Armin, Sudha Kini

Adjunct associate professor: Gilbert Herman

Clinical assistant professors: Elena I. Dvorin, Rebecca Coapman Hankin

Adjunct assistant professor: Janet Castillo

Clinical instructors: Michele M. Beauvais, Cheryl Culver-Schultz, Susan Dingler, Vanessa L. Gates, Maria M. Hardy, M. Patricia Harvey, Margaret M. Kluka, Ross R. Lavoie, Larry D. Meakem, Kalanyi Nai, Paul M. Nuechterlein, Mary L. Premo, Joseph Roszka, Joyce A. Salancy, Cheryl Schultz, Laura L. Ochs, Carol A. Watkins, Peggy A. Wenk

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 postbaccalaureate 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 technology. 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 examina-





pg. 385-412 398 4/18/02, 2:52 PM



tions 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 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 must 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.

Preprofessional program

- Complete the writing proficiency requirement. In satisfying this requirement, students
 may need to complete RHT 150 and 160 (with grades of 2.0 or better), or their
 equivalents at another college or university. Not all credits associated with these
 courses may apply to the degree.
- Meet the university general education requirements (see Undergraduate degree requirements). In completing the health sciences core curriculum, medical laboratory sciences majors will automatically satisfy the requirements in mathematics, logic and computer science, and in natural science and technology.
- Complete the university ethnic diversity requirement. For medical laboratory sciences majors, this requirement is satisfied by completing the health sciences core curriculum course HBS 200.
- Complete the health sciences core curriculum. MTH 121 or 141* is required for this
 major.
- Complete the following required preprofessional courses: BIO 205, and BIO 206* or 322; CHM 234**; MLS 201, 210.





pg. 385-412 399 4/18/02, 2:52 PM



Professional program

- 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).
- Complete all medical laboratory sciences major program course work with a cumulative GPA of 2.50 or higher.
- *Radiation therapy majors must take MTH 141 and BIO 206.
- **All specializations except radiation therapy.

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 health sciences core and core-complement 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 fall semester of 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)

Medical technologists 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 preprofessional 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 fall semester of the senior year. Internships are six or nine months (depending on the clinical site), and may be 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.





pg. 385-412 400 4/18/02, 2:52 PM



Clinical laboratory science specialization professional course requirements

Students in the clinical laboratory science specialization must complete the following courses: BIO 325, 423, 465, 466; HBS 450; MLS 313, 314, 316, 317, 326, 327, 328, 330, and 401

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 which 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 following Detroit area hospitals offer a cytotechnology internship in affiliation with Oakland University: The Detroit Medical Center University Laboratories and Henry Ford Hospital.

Cytotechnology specialization professional course requirements

Students in the cytotechnology specialization must complete the following courses: BIO 305, 306, 307, 325, 341, 393 and 423; HBS 450; HS 401; MLS 312 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 which 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 calender 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, 307, 325, 341, 423; HBS 450; HS 401; MLS 312, 327, 401; HT 401, 402, 403 and 404.





pg. 385-412 401 4/18/02, 2:52 PM



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 preprofessional program. Application for specialization standing occurs at the end of the sophomore year. Application for the hospital-based internship is made during winter semester of junior year as the student approaches completion of the prescribed professional course requirements. Students will be informed of acceptance in June and begin the internship in August. The senior year consists of a 14-month affiliation at an approved hospital school of nuclear medicine.

Nuclear medicine technology specialization professional course requirements

Students in the nuclear medicine technology specialization must complete the following courses: BIO 325, 423; CSE 125; HBS 450; HS 331, 401; MLS 312, 326, 327, 328; PHY 158; NMT 401 and 402.

Specialization in radiation therapy

Radiation therapy uses ionizing radiation to treat disease, especially cancer. The radiation therapist has 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 preprofessional 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: RT 301, 311, 315, 321, 323, 331, 333, 334, 335, 341, 342, 343, 344, 401, 402, 403, 404, 405 and 406. In addition, students must demonstrate evidence of computer literacy. This can be done by completing CSE 125 or by completing an appropriate self-study or community education course.

Preprofessional 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 gateway to professional schools.





pg. 385-412 402 4/18/02, 2:52 PM



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 (medical technology, histotechnology, cytotechnology, nuclear medicine technology, industrial sales and/or research and development, basic medical research and education).

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 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 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 321; permission of instructor.

MLS 314 Hemostasis (4)

In depth study of the basic physiology and pathophysiology of the human hemostatic system. Laboratory included.

Prerequisite: BIO 207 or 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 321; permission of instructor.

MLS 317 Hematology Laboratory (1)

To accompany MLS 316.

Prerequisite: Permission of instructor.

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 (3)

A theoretical introduction to the fundamentals of clinical chemistry, with emphasis on pathophysiology and clinical correlations.

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 (4)

Lecture and laboratory exercises in the fundamentals of microbiology, including bacteria, viruses and fungi. Includes a detailed consideration of the role of these agents in disease.

Prerequisite: BIO 111

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.

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)

Analysis of case studies, integrating data from patient history and diagnostic procedures. Prerequisite: MLS major.

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.





pg. 385-412 405 4/18/02, 2:52 PM



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 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 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.





pg. 385-412 406 4/18/02, 2:52 PM



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: Beth C. Marcoux

Associate professor: Beth C. Marcoux

Special instructors: Christine Stiller, Kristine A. Thompson

Visiting instructors: R. Elizabeth Black, Douglas S. Creighton, Kathleen M. Galloway,

John R. Krauss, Cathy A. Larson, Susan E. Saliga

Clinical professors: A. Charles Dorando Consulting professor: Olaf Evjenth

Clinical assistant professors: Pamela Lemerand, Gretchen D. Reeves, Bjorn W. Svendsen

Consulting assistant professor: Lasse Thue

Senior clinical instructors: Mary S. Lundy, Martha Schiller, David A. Tomsich

Clinical instructors: Lezlie Adler, Henry D. Boutros, Linda F. Erickson, David Gilboe, Pamela S. Knickerbocker, Gregory Kopp, Kathleen Jakubiak Kovacek, Peter R. Kovacek, Jeffrey Placzek, Frederick D. Pociask, Marilyn J. Raymond, Helene M. Rosen, Janet Siedel, Angela C. Strong, Jody Tomasic, James E. Traylor, Kenneth M. Woodward

Requirements for the B.S. degree in health sciences with a focus in prephysical 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. Complete the writing proficiency requirement. In satisfying this requirement, students may need to complete RHT 150 and RHT 160 (with grades of 2.0 or better) or their equivalent at another college or university. Not all credits associated with these courses will apply to the 136 credits required for this degree.
- 2. Meet the university general education requirements (see *Undergraduate degree requirements*). In completing the health sciences core curriculum and major program requirements, pre physical therapy majors will automatically satisfy the requirements in mathematics, logic and computer science, in natural science and technology and in social science.
- Complete the university ethnic diversity requirement. For health sciences majors, this requirement is satisfied by completing the health sciences core curriculum course HBS 200.





pg. 385-412 407 4/18/02, 2:52 PM



- Complete the health sciences core curriculum: BIO 111, 205, 206 or 322, 207 or 321;
 CHM 157, 158; MTH 141, STA 225; PHY 101, 102, 158, PSY 100; HBS 200; HBS 450 or PHL 301 or PHL 318 or HRD 301; HS 401.
- CSE 125, placement examination or approved community education courses; RHT 150, 160.
- Minimum of three credit hours in each of the following: art, literature, language, western civilization, international studies.
- 7. HS 201, 451; EXS 204, EXS 101 or 102 or 103 or 104 or 105.
- 8. MLS 210; EXS 207, 304, 350; PSY 250, 225, 321 or 323; PT 302, 321
- 9. Minimum of 16 elective credits (including at least 10 credits at 300/400 level) from the following course list: BIO 323, 324, 325, 326, 341; CHM 201, 234-235, 237, 238, 453, 454, 457; EXS 215, 360, 405, 410, 425, 445, 450, 465, 493; MTH 122; PSY 225, 321, 323, 333, 338; SOC 328; HRD 335; WHP 300/400 (pending); HS 331, 405; HBS 359; PHY 326; PT 490.

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.

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 FXS 371

Prerequisite: BIO 205, BIO 207, EXS 350 or PT 300.

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 (pending Board approval)

Director: Stafford C. Rorke

Associate professor: Stafford C. Rorke

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, school, and non-profit organizations. Their professional skills are utilized in health enhancement, disease prevention, accident and injury prevention, health education and health 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 six focus areas: General health enhancement; intervention strategies in health promotion; complementary medicine; injury prevention; exercise science; and, a pre-professional option.





pg. 385-412 408 4/18/02, 2:52 PM



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, human resource development, industrial health and safety, psychology, sociology or health education, depending on the focus area chosen. Careful choice of course work can also result in a double major with psychology.

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:

- Complete the writing proficiency requirement. In satisfying this requirement, students
 must complete (with grades of 2.0 or better) RHT 150 and 160 (or their equivalent at
 another college or university). Credit hours for RHT 150 are additional to the 128 credit
 hours required for graduation.
- 2. 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 *.
- 3. Complete the university ethnic diversity requirement. For majors in wellness, health promotion and injury prevention this requirement is satisfied by completing the complementary core curriculum course HBS 200.
- 4. Complete the wellness, health promotion and injury prevention core curriculum credits, as follows: WHP 300, 305, 310, 330, 350, 360, 401, 402.
- 5. Complete courses that complement the core curriculum, as follows: ECN 150, EXS 204, EXS 207, EXS 215, EXS 360, EXS 465, HS 201*, IHS 210, HS 451, HBS 200*, HRD 310, PHL 103*, PSY 100*, PSY 250, PSY 338, STA 225*. (* Satisfies the university general education requirement).
- Complete the required credit hours of program elective work for one of the chosen focus specialization areas below:
 - a. General health promotion focus: PSY 225. One of PSY 235 or 245. Four hours from either PSY 318, 333 or 342; plus an additional 8 elective credit hours from the elective list: AN 101, 102, 305, 310, 401, 410, 420, FE 301, HRD 303, 335, 351, NRS 390, PSY 235, 245, 318, 323, 333, 337, 342, 344, 371, REL 300, SOC 100, 207, 300, 328, 337, 350, 465, WS 300; 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 general health promotion.
 - b. Complementary medicine and wellness focus: WHP 461, 462, PSY 318, plus an additional 8 elective credit hours from: AN 310, 420, FE 301, 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 preapproved by the program director as pertinent to the field of complementary medicine and wellness.





pg. 385-412 409 4/18/02, 2:52 PM



- c. Health promotion intervention strategies focus: HRD 306, HBS 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.
- d. Injury prevention focus: IHS 300, 315, 316, 464, 480, WHP 410; plus an additional 8 elective hours from: ENV 355, EXS 465, IHS 305, 306, 319, 403, 410, 415, 420, 430, 433; plus 10 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.
- e. Exercise science focus: EXS 103. EXS 105 or 2 hours from EXS 101, 102, or 104. EXS 304, 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.
- f. 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.
- All students declaring wellness, health promotion and injury prevention as their major must undertake a Health Risk Appraisal within their freshman or sophomore year.

General elective list: BIO 104, 300, 351, 393, 423, ENV 308, 355, EXS 101-105, 304, 321, 350, 410, 425, 445, 450, 465, HBS 450, HRD 306, HS 331, 401, NRS 390, PHL 102, 318, PHY 131, WHP 340, 370, 405, 410, 420, 461, 462, 493, plus any course on the general, complementary medicine, health promotion interventions, injury prevention, exercise science, or preprofessional focus group lists above. Other elective options in biology, business, anthropology, health sciences, psychology, sociology, or human resource development 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, WHP 300, 305, 310, 330, 350, EXS 204, and a further 4 credit hours from HRD 310, HS 451, EXS 103, 105, 207, 215, 360, 465, WHP 340, 360, 420, or IHS 210.

Grade point policy

Students must maintain a cumulative GPA of 2.50 in all WHP 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 course or if their cumulative grade point average in major course work falls below 2.50. Students who earn a second grade below 2.0 must have their programs reviewed by the faculty





pg. 385-412 410 4/18/02, 2:52 PM



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.

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 catalogue as warranted by student needs. Specific offerings for each term may be found in the schedule of classes.

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, EXS 204. Corequisite: WHP 305.

WHP 305 Laboratory, Foundations, Assessment and Interventions in Wellness (2)

Laboratory course to accompany WHP 300. Content covers core competencies for entry-level health promotion professionals.

Prerequisite: EXS 204, HS 201. Corequisite: WHP 300.

WHP 310 Accident and Injury Prevention (2)

A life-span approach to the examination of causes and contributory factors leading to disabling or fatal injuries or accidents. Students are sensitized to issues and strategies for the prevention of injuries in the home, during activities of daily living, sport, leisure, recreational, occupational, and high-risk activities.

WHP 330 Foundations and Issues in Health and Wellness (4)

Contemporary issues underlying biological, psychological, philosophical, and ethical determinants of health and wellness in humans. Terminology, epidemiological methods/techniques, personal, and community issues are addressed relative to the distribution and cause of disease. Facilitates understanding of positive interventions for enhancement of health and wellness. Prerequisite: HS 201, PSY 100.

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.





pg. 385-412 411 4/18/02, 2:52 PM



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.

Prerequisite: PSY 100 or HBS 200.

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 360; WHP 300; WHP 310 or IHS 210.

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.

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 Accident and Injury Prevention (3)

In-depth examination of factors associated with non-industrial accidents resulting in injury or death, with the objective of critical appraisal of intervention strategies. 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.

Prerequisite: WHP 300.

Cross-listed with IHS 464.

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: Completion of core credits.







HONORS COLLEGE

112 VANDENBERG HALL

(248) 370-4450

Director: Brian F. Murphy (English)

Associate Director: Barry S. Winkler (Biomedical Sciences)

Council: James F. Cipielewski (Education), Kevin E. Early (Sociology), Barbara U. Mabee (Modern Languages and Literatures), Gary Shepherd (Sociology), Barry S. Winkler (Biomedical Sciences), two sophomores, two juniors and two senior Honors College students.

The Honors College was established for highly motivated students seeking a rich, valuable and challenging undergraduate education. It offers a specially designed general education and additional requirements, in conjunction with a departmental major from the College of Arts and Sciences or one of the professional schools.

Students currently admitted to or enrolled at Oakland University may apply directly to the Honors College for admission; others must apply for admission to Oakland University as well. Application forms are available at the Honors College office.

Courses with the HC prefix are open only to students who have been accepted to the Honors College. Please see our website at www2.oakland.edu/hc for additional information concerning the program 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 RHT 160 or its equivalent.
- The student must successfully complete at least four Honors College core courses (16 credits), chosen from HC 201, 202, 204, 205, 206, 207 or 208.
- 3. The student must successfully complete at least one 4-credit course in each of the other general education areas not covered by the HC core courses taken. A student may meet this requirement by successfully completing relevant university general education courses, departmental courses that count towards a major, additional HC core courses or a combination of these.
- 4. The student must successfully complete a senior colloquium, HC 401.
- 5. The student must attain second-year foreign language proficiency.

Note: Honors College requirements replace university general education and college distribution requirements. Students are not required to fulfill both sets of requirements.





pg. 413-414 413 4/18/02, 2:53 PM



Advanced standing

The student shall apply for advanced standing in the Honors College, normally by the end of the fourth semester. Following receipt of the application, the Honors College Council will interview the applicant. The interview will be of a general nature, but will deal, in part, with material studied in the Honors College core courses the student has completed.

After the interview, the council may admit the student to advanced standing, grant the student conditional advanced standing or ask the student to withdraw from the Honors College. A student who is granted conditional advanced standing will be given reasons for this status.

Independent project

Each Honors College student must successfully complete a major creative or scholarly work under the supervision of a faculty member. All independent projects must be approved by the Honors College Council prior to proceeding with work. Independent project proposals should be submitted to the council before students complete their junior year. The project must be approved within the first four weeks of the semester following that 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. Completed independent project reports are due no later than one month before the end of the semester in which the student intends to graduate.

Grade point average and graduation honors

A grade point average of at least 3.30 is required for graduation. Honors College students may receive departmental and university honors upon graduation.

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*.

HC 201-208 Honors College Core Courses (4 each)

Introduction to ways of thinking characteristic of a modern university. HC 201 deals with the arts, HC 202 with literature, HC 204 with western civilization, HC 205 with international studies, HC 206 with social science, HC 207 with mathematics, logic or computer science and HC 208 with natural science or technology. Core courses are typically offered each semester.

HC 300 Special Topics (2, 4)

Special problems and topics selected by the instructor. Prerequisite: Open to Honors College students only.

HC 401 Honors College Senior Colloquium (4)

Discussion of a broad topic of traditional concern or an issue of particular current significance. Offered annually.

HC 490 Independent Study (2, 4)

Supervised instruction in the Honors College independent project. May be repeated for credit. Offered each semester.









SCHOOL OF NURSING

428-434 O'DOWD HALL

(248) 370-4070 Fax: (248) 370-4279

Interim Dean: Kathleen Emrich

Interim Associate Dean: Catherine V.H. Vincent

Office of the Dean: Sherry Abernathy, assistant dean; Pamela A. Marin, manager student services & continuing education; Joann Burrington, administrative project coordinator; Patricia T. Ketcham, nursing laboratory manager

Professor emerita: Diane R. Wilson, Carol Zenas Professor: Anahid Kulwicki, Justine J. Speer

Associate professors: Frances C. Jackson, Mary E. Mittelstaedt, Gary Moore,

F. Darlene Schott-Baer, Christina L. Sieloff

Assistant professors: Geneal Brooks, Margaret Early, Judith K. Hovey, Suha Kridli, Anne Mitchell-Gieleghem, Sarah E. Newton, Diane Norris, Barbara B. Penprase, Teresa Thompson

Special instructor: Ramune Mikaila Visiting instructor: Karen Olsen

Full time adjunct instructors: Wanda Gibson-Scipio, Carrie Motyka

 $\label{eq:Adjunct assistant professors: Patricia\ T.\ Ketcham,\ Lynn\ L.\ Lebeck,\ Karen\ Zaglaniczny,$

Christine S. Zambricki

Adjunct instructors: Lisa Ann Mileto, Pamela Friedman

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:

Maggie Allesee, Counselor, Birmingham, Michigan

Sheila Atkinso, President, Synergy Rehabilitation Systems, Inc.

Tim Bannister, President, Bannister and Company, Inc.

Marie Bulaclac, Sr. Occupational Health Services Specialist, DaimlerChrysler Corp.

Nancy Burton, VP Operations, St. John Riverview

Bart P. Buxton, VP and COO, Crittenton Hospital Medical Center

Carl Camden, President, Kelly Services

Janice Crawford, Grand Blanc, Michigan

Lisa DeMoss, Vice President and Deputy General Counsel, Blue Cross Blue Shield of Michigan

Donald Dezenski, Executive V.P., Health Care Professionals

Anthony J. Filippis, President and CEO Wright & Filippis

Mary Fowlie, Group Senior V.P., Standard Federal Bank

Lorraine Headley, Associate Hospital Director, William Beaumont Hospital Troy

Paula Hebert, Vice President Clinical Services, Providence Hospital & Medical Centers





pg. 415-427 415 4/18/02, 2:54 PM



Frank W. Jackson III, Assist. General Counsel, Blue Cross Blue Shield of Michigan Diane Janusch, V.P., Nursing Services, St. John Hospital and Medical Center

Patricia Jorgensen, Rehabilitation Consultant, Jorgensen Consulting

Barbara Kopasz, Associate V.P., Marketing Support & Business Relations, Health Alliance Plan

Karen Lucas, Independent Consultant, Shelby Township, Michigan

Marilyn Messina, Rochester, Michigan

Thomas E. Neman, Senior V.P. & Managing Director, BBDO Advertising

Margo Riza, Regional Operations Manager, Special Tree Rehabilitation System

David Siegel, MD, Consultant

Roberta Toll, Psychologist

Mary Lou Wesley, V.P., Patient Care Services, St. Joseph Mercy Oakland

Peter Wozniak, Dearborn, Michigan

Christine Zambricki, Administrative Director Anesthesia, William Beaumont Hospital, Royal Oak

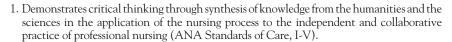
Programs Offered

Undergraduate program

The School of Nursing offers instruction leading to the Bachelor of Science in Nursing (B.S.N.). 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.

Undergraduate program objectives

In keeping with the philosophy of the School of Nursing, baccalaureate graduates achieve the following outcome competencies:



- 2. Applies ethically and legally grounded clinical judgements 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 of Science in Nursing (M.S.N.). This program prepares nurses for advanced nursing practice as a clinical nurse specialist (adult health), a family nurse practitioner, or a nurse anesthetist. Post-master's certificate programs are also offered in the family nurse practitioner and nurse anesthesia tracks. For more information, see the Oakland University Graduate Catalog.





pg. 415-427 4/18/02 2:54 PM



Admission

The prenursing year

Students wishing to enter prenursing should have completed two years of high school mathematics, including algebra, one year of college preparatory biology and one year of chemistry, with a grade of 2.80 or better in each. A cumulative average of 2.80 or better is required for admission to the prenursing program at Oakland University. Students whose averages are below 2.80 can be admitted into the "undecided nursing" category. See the sections on admission to the School of Nursing below and Admissions section of this catalog for additional information.

Admission to the School of Nursing

During prenursing, students take required introductory courses in the natural and social sciences and the humanities. Application for fall semester admission to the nursing program is accepted on a rolling basis throughout the year. The applicant must be in good standing in the university (minimum overall GPA of 2.00). Completion of minimum requirements does not guarantee admission. Positions are filled with applicants best qualified to succeed in the nursing program. Preference is given to students who have completed five or more of their prenursing courses at Oakland University and with a grade point average (GPA) of 3.00 or better. 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.

To be considered for admission to the full time or part-time standard nursing program, students must:

- 1. Complete BIO 111, 121; CHM 104, 201; RHT 150, 160; and PSY 100 or 130 with a minimum grade of 2.0 in each course and a minimum overall GPA of 3.00.
- 2. Complete PHL 101, 102, 103, 107, 204, 205, or 206 with a minimum grade of 2.0.
- 3. Complete MTH 011 with a minimum grade of 2.0. (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 have taken an Oakland University placement test and have placed into MTH 012 or higher.) Credits for MTH 011 do not apply to any degree at Oakland University.

In addition, admission to the nursing program is contingent upon meeting all clinical/health 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 psycho-social 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, 157 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.





pg. 415-427 4/18/02, 2:54 PM



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 no later than July 1 of the year of acceptance. All requirements must remain in effect throughout the academic year. Students who have not provided necessary documentation by July 1 will not be assigned to a field placement until the requirements are met. It is important that students 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.

Once admitted to the nursing program, students should consult the School of Nursing Undergraduate Student Handbook for detailed information on program policies and procedures.

Advising

The School of Nursing advising office is located in 447 O'Dowd Hall (248-370-4068). It is recommended that students schedule an advising appointment during the prenursing year 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 registration for nursing courses

Transfer policy

Programs offered by the School of Nursing are designed to meet National League for Nursing and 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* for additional information about university transfer policy, including transfer of credit from community colleges.

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 writing proficiency requirement.
- Complete the university ethnic diversity requirement by taking NRS 302 in the standard plan and NRS 450 in the degree completion sequence for registered nurses.
- Complete all credits and courses as listed in the full-time basic program plan 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 at the 300-level or above.





pg. 415-427 418 4/18/02, 2:54 PM



Full-time Basic Program Plan*

Fall			Winter		
Prenursing	Introduction to Chemical	(4)	Prenursing	Organic and Biological	(4)
CI IIVI 107	Principles	(ד)	CI IIVI 201	Chemistry	(ד)
**BIO 111 **RHT 150	Biology Composition I	(4) (4)	**BIO 121	Clinical Anatomy and	(5)
**PSY 100	Composition I Foundations of Contempor Psychology		PHL 101, 10	Physiology Composition II 2, 103, 107, 204, 205, 206	(4) (4) 17
PSY 130	or Psychology & Society	(4) 16	(select one)		17
Spring/Summer					
Prenursing ***PSY 225	Intro to Life-Span Developmental Psychology	(4)			
	General Education	<u>(4)</u> 8			
	Fall			Winter	
Sophomore NRS 206	Intro. to Professional	(2)	Sophomore NRS 210/211	Nursing Therapeutics II/	(1/1)
	Nursing			Laboratory	
NRS 207	Nursing Therapeutics I Laboratory	(1)	NRS 220	Nutrition in Nursing Practice	(2)
,	Health Assessment/Lab	(3/1)	NRS 302/303	Nursing: Vulnerable	(3/2)
NRS 216	Wellness & Health Promotion	(3)	NRS 227	Populations/ Clinical Pathophysiology	(3)
NRS 213	Basic Clinical	(1)	BIO 307	Introduction to Human	(4)
NRS 252	Competencies Scientific Inquiry I	<u>(2)</u> 13		Microbiology	<u>(4)</u> 16
		13			
Junior	Fall			Winter	
NRS 308	Pharmacology in	(3)	Junior	vv inter	
NRS 326	Nursing Acute Health Needs I	(5)	NRS 328 Two of three:	Acute Health Needs II	(3)
One of three			NRS 336,	Acute Care Clinical (2+2)	(4)
NRS 336, 337, 338	Acute Care Clinical	(3)	337, 338 NRS 354	Nursing Care Mgmt	(2)
General Educ	eation	<u>(4)</u> 15	NRS 452	Scientific Inquiry II	(3) 12
Fall					
Senior NRS 428	Community Nursing	(3)	Senior	Winter	
NRS 470	Chronic Health Conditions	(3)		Nursing Synthesis/ Clinical	(1/5)
NRS 471, 477	NRS 471, 477 Chronic Care			General Education (
Clinical (2+2) General Education		<u>(4)</u>	General Educ	cation	(4) 14
T-4-1, 125	. 10	14			

Note: General Education courses can be taken in any semester throughout the program.







Total: 125 credits

* Part-time program is available upon request

^{**} Courses used in the calculation of the prenursing grade point average.

*** PSY 225 may be taken Sp/Su of prenursing year or Fall of sophomore year.



Basic program progression

The basic program can be completed within 6 semesters of full-time study or 10 semesters of part-time study after admission to the School of Nursing.

Students must complete all designated course requirements for each year in the nursing program before progressing to the next level. Students who are ineligible to progress are placed on inactive status. Students may maintain inactive status in the School of Nursing for 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.

Field/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 field experiences.

Annual clinical/health requirements

The requirements listed below must be renewed annually and remain in effect throughout the academic year. By July 1 each year, students in the nursing program must supply written validation of:

- 1. Skin testing for tuberculosis and/or chest x-ray.
- Malpractice insurance coverage of at least \$1,000,000 per occurrence/\$3,000,000 aggregate.
- 3. Documented completion of an approved CPR course.

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 field placement until requirements are met.

Degree Completion Sequence for Registered Nurses

The School of Nursing offers registered nurses an opportunity to earn a Bachelor of Science in Nursing. 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 Michigan 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.





pg. 415-427 420 4/18/02, 2:54 PM



This process includes:

- a. Successful completion of the NCLEX-RN examination.
- b. Evidence of a valid Michigan RN license.
- c. Registration for competency credits.
- 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 Michigan RN license.
- c. Registration for competency credits.
- 3. Required Nursing Courses:

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 474/475	Nursing Synthesis for the RN/Clinical (4/4)	8
	T 1 1	1. 22

Total required nursing credits: 32

- 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
 - 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
 - c. completion of NRS 330 Health Assessment for the RN.

An independent study option is available for 1-3 credits. Contact the RN/BSN Degree Completion Sequence Academic Adviser for details.

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.

Core performance standards

All nursing students must demonstrate the following competencies during the entire academic program:

Competency	Standard
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Critical Thinking: Inductive/deductive reasoning sufficient for clinical judgement 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.





pg. 415-427 421 4/18/02, 2:54 PM



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

Students are expected to earn a grade of 2.5 or better in each nursing course and a grade of 2.0 or better in each required non-nursing course in the B.S.N. program. 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 in the program may be placed on probation with conditions imposed for retention in the program or may be dismissed from the program.

Probation, Dismissal and Readmission Policies

- 1. Probation: A B.S.N. student will be placed on probation if the student receives a nursing course grade below 2.5 or unsatisfactory if graded S/U. Upon receipt of written notification of being placed on probation, the student will meet with his/her acadmic adviser to develop a plan for success in meeting program requirements. The conditions of probation will include:
 - a. repeating a course if course grade is below 2.5 or unsatisfactory.
 - b. receipt of no other nursing course grade below 2.5 or unsatisfactory.
- 2. **Removal from probation:** Upon satisfactory completion of the conditions of probation, the probationary status will be removed.
- 3. Dismissal: A student will be dismissed from the program if the student:
 - a. receives two nursing course grades below 2.5 or unsatisfactory in one semester
 - b. fails to fulfill the conditions of probation, or
 - c. receives a second nursing course grade below 2.5 or unsatisfactory during completion of the program,
 - d. exhibits egregious, unsafe behavior in any clinical setting.
- 4. **Appeal Process:** A student may appeal the dismissal within five (5) working days of the issuance of the dismissal notice. Forms are available in the Advising Office, 447 O'Dowd Hall. Students may appeal dismissal one time.







5. Readmission Policy: Readmission will be considered on a case-by-case basis. If readmitted, conditions of readmission may be imposed. Students may not reapply to the nursing program for at least one full 14 week semester (fall or winter) following dismissal.

Additional Information

Accreditation and program review

The Oakland University School of Nursing is accredited by the National League for Nursing, has received preliminary approval 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

Prenursing 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, to have support from other nursing students and to increase networking skills. It also gives members the ability to work with others, participate in community and political events, and to have an opportunity to voice concerns to 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.

The Legal Nurse Consultant is a noncredit certificate program offered to registered nurses with a BSN who are interested in a paralegal career that builds on nursing expertise. For detailed information call 248-370-4068.

Specialized contract programs can also 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).





pg. 415-427 423 4/18/02, 2:54 PM



Course Offerings

The School of Nursing 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.

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. Prerequisite or corequisite: PSY 225, NRS 252

Corequisite: NRS 207.

NRS 207 Nursing Therapeutics I Laboratory (1)

Application in the laboratory setting of principles, concepts and client care skills presented in NRS 206. Prerequisite: Admission to the School of Nursing.

Corequisite: NRS 206.

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. Deviation 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 (1)

Introduces student to basic and advanced therapeutic skills related to the care of acute and chronically ill clients.

Prerequisite: NRS 206. Corequisite: NRS 211.

NRS 211 Nursing Therapeutics II Laboratory (1)

Application in the laboratory setting of principles, concepts and client care skills presented in NRS 210. Corequisite: NRS 210.

NRS 213 Basic Clinical Competencies (1)

Application in the clinical setting of principles, concepts, and client care skills learned in Introduction to Professional Nursing (NRS 206), Nursing Therapeutics I (NRS 207), Health Assessment/Lab (NRS 208/209), and Wellness and Health Promotion (NRS 216).

Prerequisite: Admission to the School of Nursing

Prerequisite or corequisite: NRS 216.

NRS 216 Wellness and Health Promotion (3)

Introduces concepts and principles of health promotion and wellness. Emphasis is on wellness from prenatal period through adolescence.

Prerequisite: Admission to the School of Nursing.

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: Admission to the School of Nursing.

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 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. This course satisfies the university ethnic diversity requirement.

Prerequisite: NRS 216 Corequisite: NRS 303

NRS 303 Nursing: Vulnerable Populations Clinical (2)

Application in the clinical setting of principles, concepts, and client care skills presented in NRS 302. Corequisite: NRS 302

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 RN/BSN degree completion sequence.

NRS 326 Acute Health Needs I (5)

Presents 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 (3)

Continues content and emphasis begun in NRS 326.

Prerequisite: NRS 326.

Prerequisite or Corequisite: NRS 336 and/or 337, and/or 338.

NRS 330 Health Assessment for the RN (4)

Introduces students to the process of health assessment. Emphasis on performing a full screening assessment of well clients across the life-span.

NRS 336 Acute Care Clinical: Adult (2-3)

 $Application of theory, research and client care skills presented in NRS\,326/328 in the clinical setting with a focus on adults.$

Corequisite: NRS 326 or 328.

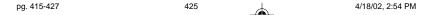
NRS 337 Acute Care Clinical: Child (2-3)

Application of theory, research and client care skills presented in NRS 326/328 in the clinical setting with a focus on children.

Corequisite: NRS 326 or 328.









NRS 338 Acute Care Clinical: Family (2-3)

Application of theory, research and client care skills presented in NRS 326/328 in the clinical setting with a focus on emerging families.

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: 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: 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: 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 426 Nursing: Home and Community/RN (2-4)

Focuses principles, knowledge, skills, and attitudes necessary to deliver health care in the community, including the home setting.

Prerequisite: 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.

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. This course satisfies the university ethnic diversity requirement.

Prerequisite: NRS 310.

NRS 452 Scientific Inquiry II (2-4)

Emphasizes the salient points of the research process and evidenced based practice.

Prerequisite: NRS 252.

RN/BSN Completion Program:

Prerequisite: 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, 477.

NRS 471 Chronic Care Clinic (2)

Application in the clinical setting of principles, concepts, and client care skills learned in NRS 470. Corequisite: NRS 470.





SCHOOL OF NURSING



NRS 472 Nursing Synthesis (1)

Analyze and debate theoretical and practice issues impacting health care delivery.

Prerequisite: NRS 424, 470. 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. 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

Corequisite: NRS 475. 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. Corequisite: NRS 474.

Prerequisite or Corequisite: NRS 340,355, 426, 450, 452.

NRS 477 Chronic Care Clinical: Psychiatric (2)

Application in a psychiatric clinical setting of principles, concepts, and client care skills learned in

NRS 470.

Corequisite: NRS 470.

NRS 490 Independent Study (1-12)

Engages students in individual research, directed readings or group study under the supervision of a faculty member.





pg. 415-427 4/18/02, 2:54 PM



UNIVERSITY FACULTY

This list reflects faculty appointments effective August 15, 2002, as they were available on the publication date.

Officers of Instruction

GARY D. RUSSI, President of Oakland University and Professor of Health Sciences, Ph.D., University of Kansas

VIRINDER K. MOUDGIL, Interim Vice President for Academic Affairs and Provost and Professor of Biological Sciences, Ph.D., Banaras Hindu University (India)

HODA ABDEL-ATY-ZOHDY, Associate Professor of Engineering, Ph.D., University of Waterloo (Canada)

BONNIE F. ABIKO, Associate Professor of Art History, Ph.D., Princeton University LEZLIE ADLER, Clinical Instructor in Physical Therapy, M.A., Wayne State University HENRY AIGBEDO, Assistant Professor of Production and Operations Management, Ph.D., University of Tsukuba (Japan)

SANDRA M. ALBER, Associate Professor of Education, Ed.D., Wayne State University
JANICE ALBRIGHT, Adjunct Assistant Professor of Music, B.Mus.Ed., Indiana University
ALEX ALKIDAS, Adjunct Professor of Engineering, Ph.D., Cornell University
DANIEL ALOI, Assistant Professor of Engineering, Ph.D., Ohio University
LETTIE B. ALSTON, Associate Professor of Music, D.M.A., University of Michigan
OSMAN D. ALTAN, Adjunct Professor of Engineering, Ph.D., University of California (Berkeley)
WALLIS MAY ANDERSEN, Associate Professor of Rhetoric, Ph.D., University of Detroit
BARBARA J. ANDERSON, Clinical Associate Professor of Medical Laboratory Sciences, M.D.,
Wayne State University

ROBERT ANDERSON, Assistant Professor of English, Ph.D., University of Rochester KEVIN T. ANDREWS, Professor of Mathematical Sciences, Ph.D., University of Illinois SHELDON L. APPLETON, Professor of Political Science, Ph.D., University of Minnesota SITARAMAYYA ARI, Professor of Biomedical Sciences, Ph.D., Lucknow University (India) ALI-REZA ARMIN, Clinical Associate Professor of Medical Laboratory Sciences, M.D., Tehran University (Iran)

ELWOOD P. ARMOUR, Adjunct Assistant Professor of Medical Physics, Ph.D., University of Texas

SUSAN M. AWBREY, Associate Professor of Education and Vice Provost for Undergraduate Education, Ph.D., Michigan State University

SUSAN G. BAKER, Special Instructor in Communication, M.A., Eastern Michigan University JOANN M. BANGS, Assistant Professor of Economics, Ph.D., University of Minnesota GARY C. BARBER, Professor of Engineering and Chairperson, Department of Mechanical Engineering, Ph.D., University of Michigan

LIZABETH A. BARCLAY, Professor of Management, Ph.D., Wayne State University RICHARD F. BARRON, Associate Professor of Education, Ph.D., Syracuse University MOHAMMAD S. BAZAZ, Professor of Accounting, Ph.D., University of Oklahoma MICHELE M. BEAUVAIS, Clinical Instructor in Medical Laboratory Sciences, B.S., Wayne State University

RONALD R. BECK, Adjunct Professor of Engineering, Ph.D., University of Iowa PATRICIA ANNE BECKER, Special Instructor in Rhetoric, Communication and Journalism, M.A., Oakland University

DAVID BECKER, Adjunct Professor of Chemistry, Ph.D., University of Washington BABETTE M. BENKEN, Visiting Instructor in Education, M.S., University of Michigan JANET BENNETT, Adjunct Assistant Professor of Chemistry, Ph.D., Oakland University LINDA K. BENSON, Professor of History, Ph.D., University of Leeds (England) BERNARD BERCU, Clinical Professor of Health Sciences, M.D., Washington University BEVERLY K. BERGER, Professor of Physics, Ph.D., University of Maryland RICHARD L. BERGER, Adjunct Professor of Physics, Ph.D., University of Maryland RICHARD S. BERK, Adjunct Professor of Medical Laboratory Sciences, Ph.D., University of Chicago

JENNIFER I. BERNE, Assistant Professor of Education, Ph.D., Michigan State University









PETER J. BERTOCCI, Professor of Anthropology, Ph.D., Michigan State University DIKKA BERVEN, Special Instructor in French, Ph.D., University of Maryland KEITH A. BERVEN, Associate Professor of Biological Sciences, Ph.D., University of Maryland AMBIKA PILLAI BHARGAVA, Assistant Professor of Education, Ph.D., University of Texas (Austin)

MUKESH BHARGAVA, Associate Professor of Marketing and Chairperson, Department of Management and Marketing, Ph.D., University of Texas (Austin)

BHUSHAN L. BHATT, Professor of Engineering and Associate Dean, School of Engineering & Computer Science, Ph.D., Oakland University

PETER J. BINKERT, Professor of Linguistics and Classics and Chairperson, Department of Linguistics, Ph.D., University of Michigan

R. ELIZABETH BLACK, Visiting Instructor in Physical Therapy, M.S., McMaster University (Canada)

JANET BLANKS, Professor of Biomedical Sciences and Director, Eye Research Institute, Ph.D., University of California (Los Angeles)

MATEJ BLASKO, Assistant Professor of Finance, Ph.D., University of Georgia CARL E. BLEIL, Adjunct Professor of Physics, Ph.D., University of Oklahoma

THOMAS W. BLUME, Associate Professor of Education, Ph.D., Texas Technological University KARL BOELTER, Associate Professor of Music and Chairperson, Department of Music, Theatre and Dance, D.M.A., University of Michigan

JOHN BOHTE, Assistant Professor of Political Science, Ph.D., Texas A&M University KAREN BOLAK, Assistant Professor of Education, Ph.D., Wayne State University SETH BONDER, Adjunct Professor of Mathematical Sciences, Ph.D., The Ohio State University ROBERT F. BORDLEY, Adjunct Professor of Engineering, Ph.D., University of California (Berkeley)

J. CARLOS BORREGO, Adjunct Professor of Health Behavioral Sciences, M.D., M.P.H., University of LaSalle (Mexico)

DJAMEL BOUCHAFFRA, Assistant Professor of Engineering, Ph.D., Universite Des Sciences Sociales, DeGrenoble II (France)

HENRY D. BOUTROS, Clinical Instructor in Physical Therapy, M.Ed., Wayne State University SUSAN M. BOWYER, Adjunct Assistant Professor of Medical Physics, Ph.D., Oakland University CATHLEEN BREIDENBACH, Visiting Special Instructor in Rhetoric, M.A., Oakland University GOTTFRIED BRIEGER, Professor of Chemistry, Ph.D., University of Wisconsin JANE L. BRIGGS-BUNTING, Professor of Journalism, J.D., University of Detroit

MARC E. BRIOD, Associate Professor of Education and Philosophy, Ph.D., Northwestern University

PATRICIA BROOKS, Clinical Assistant Professor of Exercise Science, M.D., Michigan State University

JUDITH K. BROWN, Professor of Anthropology, Ed. D., Harvard University

STEPHEN L. BROWN, Adjunct Associate Professor of Medical Physics, Ph.D., University of Toronto (Canada)

MARIA SZCZESNIAK BRYANT, Professor of Chemistry, Ph.D., University of Wroclaw (Poland) AMANDA C. BRYANT-FRIEDRICH, Assistant Professor of Chemistry, Ph.D., Ruprecht-Karls University (Germany)

NICOLE B. BUFFARD-O'SHEA, Associate Professor of French, Ph.D., University of California (Davis)

ARTHUR W. BULL, Professor of Chemistry, Ph.D., Wayne State University

RICHARD J. BURKE, Professor of Philosophy, Ph.D., University of Chicago

RONALD L. BUTZLAFF, Assistant Professor of Psychology, Ph.D., Harvard University

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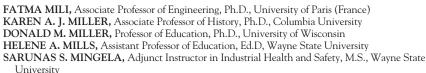
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pg. 446-453 447 4/18/02, 2:55 PM



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pg. 446-453 448 4/18/02, 2:55 PM



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pg. 446-453 449 4/18/02, 2:55 PM



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pg. 446-453 450 4/18/02, 2:55 PM



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pg. 446-453 451 4/18/02, 2:55 PM



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The Senate is an all-university governance body whose membership includes administrative officers, students and faculty members elected for two-year terms to represent their academic units. The Vice President for Academic Affairs, its presiding officer, works with the Steering Committee to carry out the administrative functions of the Senate. It serves as a legislative forum that meets monthly during the academic year. The Senate recommends new degree programs to the president and the board and must approve the constitutions of colleges and schools. It determines academic policies and provides opportunity for public deliberation on issues of importance to the university.

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.

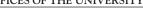
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pg. 446-453 452 4/18/02, 2:55 PM

OFFICES OF THE UNIVERSITY



Academic Standing and Honors Committee

Admissions and Financial Aid

Committee

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Graduate Council

Honorary Degrees Committee

Library Committee

Planning Review Committee

Research Committee

Teaching and Learning Committee

University Committee on

Undergraduate Instruction







Course Reference

Accounting (ACC)	294	Literatures in Translation (LIT)	175
American Studies (AMS)		Management (MGT)	300
Anthropology (AN)		Management Information Systems (MIS)	301
Applicable Analysis and Mathematical		Marketing (MKT)	303
Modeling (APM)	157	Mathematical Methods of Operations	
Applied Language Studies (ALS)	145	Research (MOR)	159
Applied Technology in Business (ATB)		Mathematics (MTH)	155
Art History (AH)		Mathematics for Elementary Education	
Biochemistry (BCM)	256	Majors (MTE)	159
Biology (BIO)		Mechanical Engineering (ME)	375
Chemistry (CHM)	110	Medical Laboratory Science (MLS)	403
Chinese Language (CHE)		Michigan Studies (MC)	269
Cinema Studies (CIN)	267	Modern Language (ML)	175
Communication (COM)		Music, Theatre, Dance (MTD)	
Computer Science and		Music (Applied) (MUA)	189
Engineering (CSE)	369	Music Ensembles (MUE)	
Counseling (CNS)		Music History, Literature, Appreciation	
Cytotechnology (CT)		and Education (MUS)	193
Dance (DAN)		Music Theory and Composition (MUT)	
Economics (ECN)		Nuclear Medicine Technology (NMT)	
Electrical Engineering (EE)		Nursing (NRS)	
Elementary Education (EED)		Operations Research (MOR)	
Engineering (EGR)		Organizational Behavior (ORG)	
English (ENG)		Philosophy (PHL)	
English As A Second Language (ESL)		Physical Sciences (SCI) 111,	
Environmental Studies (ENV)		Physical Therapy (PT)	
Exercise Science (EXS)		Physics (PHY)	
Finance (FIN)		Political Science (PS)	
Foundations of Education (FE)		Production and Operation	
French Language and Literature (FRH)		Management (POM)	305
Geography (GEO)		Psychology (PSY)	
German Language and Literature (GRM)		Quantitative Methods (QMM)	
Health Behavioral Sciences (HBS)		Radiation Therapy (RT)	
Health Sciences (HS)		Reading (RDG)	
Hindi-Urdu Language (HIU, HIN, URD)		Religious Studies (REL)	271
History (HST)		Rhetoric (RHT)	
Histotechnology (HT)		Russian Language and Literature (RUS)	171
Honors College (HC)		Science Studies (SCS)	
Human Resource Development (HRD)		Secondary Education (SED)	
Industrial Health and Safety (IHS)		Sociology (SOC)	250
International Studies (IS)		Spanish Language and Literature (SPN)	
Instructional Systems Technology (IST)		Special Education (SE)	321
Italian Language and Literature (IT)		Statistics (STA)	
Japanese Language and Literature (JPN)		Studio Art (SA)	93
Journalism (JRN)		Systems Engineering (SYS)	378
Latin Language And		Theatre (THA)	
Roman Culture (LTN)	148	Wellness, Health Promotion,	
Linguistics (LIN)		and Injury Prevention (WHP)	411
		Women's Studies (WS)	





Academic	Advanced
advising, 50	placement, 13
(see also individual academic units and	standing, Honors College, 414
programs)	Advertising minor, 239
calendar, 6	Advising
conduct policy, 68	academic, 50, 80 (see also individual academic
forgiveness, 71	units and programs)
honors, 67	academic advising index, 4
options, 264 College of Arts and Sciences, 80	
policies, other, 69	fee, orientation and advising, 17, 41
probation and dismissal, 69-71	General Studies, 383
progress, 29	physics, 211
records, 66	Resource Center, 50, 62
Skills Center, 40	School of Business Administration, 280
Accounting	School of Education and Human
courses (ACC), 294	Services, 307
major, 282	School of Engineering and Computer
minor, 289	Science, 334
for computer science majors, 337	School of Health Sciences, 386
Accreditation	School of Nursing, 415
accounting, 279	undergraduate, 415
business administration, 279	African and African-American
chemistry, 106	studies program, 138
computer science, 332	AFROTC, 78
education, 310	American
engineering, 332	Chemical Society, 108
nursing, 423	studies concentration, 264
physical therapy, 407	studies courses (AMS), 265
university, 10	Anatomy specialization, 97
Additional undergraduate degrees and	Anthropology courses (AN), 246
majors, 61	Applicable analysis and mathematical
Admission	modeling courses (APM), 157
arts and sciences, 80	Application
business administration, 279	for degree, 17
elementary education, 311	fee, 16
engineering and computer sciences, 333	process, STEP, 316
freshmen, 11	Applied
from Michigan community colleges, 63	language studies courses (ALS), 145
guest status, 12	mathematics, 340
high school students, 12, 291	music courses, 188, 189
non-matriculating, 13	statistics concentration, 97, 265, 340
non-U.S. citizens, 12	statistics major, Bachelor of Science, 153
nursing, 417	Archaeology concentration, 265
physical therapy, 407	Art and Art History
post-baccalaureate status, 13	courses (AH), 89
second degree, 13	Department of, 88
to major standing (see individual academic	Arts and Sciences
departments)	College of, 80
transfers, 62	cooperative education, 86















American studies, 264 applied statistics, 340, 265 archaeology, 265	Diploma programs, 77 Discrimination, Illegal, 74 Disability support services, 42
criminal justice, 266	Dismissal, 69
defined, 55, 85	appeal process, 71
environmental studies, 267, 341	option status, 71
film aesthetics and history, 267	Distribution fields, arts and sciences, 82
for engineering and computer science	Double degrees, 61
students, 340	Double majors, 61, 339
for general studies majors, 384	East Asian studies program, 138 Economics
French studies, 164, 268 health behavioral sciences, 390	courses (ECN), 116, 296
linguistics, 120, 144, 205, 226, 235, 245	Department of, 115
Michigan studies, 269	major, Bachelor of Arts, 115
preprofessional studies in medicine,	major, Bachelor of Science, 286
dentistry, optometry and veterinary	minor, 117, 289, 334
medicine 98, 110, 270	Education and Human Services
religious studies, 270	Advising Center, 307, 312
social work, 272	certification, elementary education,
urban studies, 273	311, 314
Conferences, 78	course descriptions:
Congress, student government, 46	elementary education (EED), 314
Continuing Education, 77, 423	foundations of education (FE), 320
Cooperative education, 42	human resource development (HRD)
arts and sciences, 86	322
business administration, 292	instructional systems technology (IST 330
engineering and computer science, 338 Counseling Center, 42	reading (RDG), 329
Course Course	science studies (SCS), 316
adjusting (drop/add), 52	secondary education (SED), 318
auditing, 52	OU Step, 316
competency, 52	special education (SE), 321
competency by examination fee, 16	Educational Resources Laboratory, 308
credit system, 51	Field Placements, 308, 313
fees, 16	School of, 307
regulations, 51	Electrical and Systems Engineering
repeating, 53	courses (EE), 372
Criminal justice	courses (SYS), 378
Concentration, 266	Department of, 351
Specialization, two-plus-two program, 246	Elementary education
Curriculum, Instruction and Leadership,	candidacy, 311
Department of, 310	certification, 314
Cytotechnology courses (CT), 401	courses (EED), 314 pre-elementary education, second
specialization, 399	undergraduate degree, 310
Dance courses (DAN), 201	science courses (SCS), 316
Dean of Students, 42	program requirements, 310
Dean's List, 67	teaching majors/minors, 312
Degree requirements, 53	Engineering
(see also individual academic units and	chemistry major, 107, 366
programs)	physics major, 211, 367
Degrees, additional, 13, 61	Engineering and Computer Science
	academic standing, 337, 343







admission, 333	application procedures, 27
concentrations and minors, 340	financial aid, grants, 24-27
cooperative education program, 338	scholarships, 32-40
course descriptions:	Forgiveness, academic, 71
computer science and engineering	Foundations of education courses (FE), 320
(CSE), 369	French
electrical engineering (EE), 372	courses (FRH), 166
engineering (EGR), 369	language and literature, 166
mechanical engineering (ME), 375	studies, concentration, 268
systems engineering (SYS), 378	Freshman admission, 11
double major, 339	General
electives policy, 339	business minor, 289
major standing, 337	education requirements, 57-61
School of, 331	education requirements, Honors College,
transfer policy, 334	413
Engineering Sciences Programs, 366	information, elementary education, 307,
English	310
courses (ENG), 122	information, engineering and computer
Department of, 119	science, 332
STEP, 121	management major, 284
Enrollment deposit, 17	service fee, 15
Environment and resource management	studies degree, 382
specialization, 258	undergraduate degree requirements, 53
Environmental	Geography courses (GEO), 275
health	German
courses (ENV), 258	courses (GRM), 168
program, 83, 257	modified major, 162
studies concentration, 340	studies concentration, 162
Equity, Office of, 44	Grade point requirement, 55
Ethnic diversity requirement, 60, 61	Grading system, 64
Evening degree programs, 77	Graduate Study, Office of, 48
Exception, petition of, 62	Graduation service fee, 17
Exercise science	Graham Health Center, 43
courses (EXS), 388	Grants, 24-27
program, 387	Guest status admission, 12
Experiential Education, 43	Handicapped student services, see Disability
Extension program, 77	Support Services
course cancellation, 77	Health behavioral sciences
Faculty, university, 428	courses (HBS), 390, 391
Family Educational Rights/Privacy Act, 66	program, 390
Fees, 15-18	Health Sciences
refund of, 18	advising, 386
Field experience courses, 86	core curriculum, 386
Field placements, 286, 420	course descriptions
Film aesthetics/history	cytotechnology (CT), 403
concentration, 267 courses (CIN), 267	exercise science (EXS), 388 health behavioral sciences (HBS), 391
Finance	health sciences (HS), 393
courses (FIN), 299	
* **	histotechnology (HT), 403
major, 283 minor, 289, 341	industrial health and safety (IHS), 396 medical laboratory sciences (MLS), 403
Financial Aid and Scholarships	nuclear medicine technology (NMT), 405
academic requirements, 29	40)





physical therapy (PT), 408	Human Resource Development
radiation therapy (RT), 405	courses (HRD), 326
program, 391	Department of, 322
School of, 385	Human Resouces Management
Health services, 43	major, 284
Hindi-Urdu courses (HIU), 170	minor, 290
History	Independent
courses (HST), 129	major, arts and sciences, 87
Department of, 127	project, Honors College, 414
Secondary Teacher Education Program	Industrial health and safety
(STEP), 128	courses (IHS), 396
Histotechnology	grade point policy, 396
courses (HT), 403	program, 394
specialization, 401	Instructional Systems Technology course
Honors	(IST), 330
academic, 67	Instructors, standards, 72
arts and sciences, 82	Intercollegiate sports, 79
anthropology, 246	International
art history, 89	management minor, 290
biochemistry, 256	orientation for engineering/computer
biology, 98	science students minor, 341
business administration, 292	Programs, Center for International, 139
chemistry, 109	students and scholars, 43
communication, 232	Studies courses (IS), 140
conciliar, 384	Internship program, 44 (see also individual
departmental, 67	academic units)
dean's list, 67	Interschool MBA, 84
economics (arts and sciences), 116	Italian language and literature courses (IT),
English, 120	170
general studies, 384	Japanese language and civilization
history, 128	minor, 164
Honors College, 414	Japanese language and literature
human resource development, 326	courses (JPN), 171
international studies, 137	studies (see East Asian studies), 138
journalism, 232	Journalism
linguistics, 144	courses (JRN), 240
mathematics and statistics, 154	program, 239
modern languages, 163	Ken Morris Center for the Study of Labor
music, theatre, dance, 178	and Work, 308
nursing, 423	Labor
philosophy, 205	and employment studies minor, 325
physics, 213	studies center, 308
political science, 218	Late
psychology, 226	add fee, 16
sociology, 246	payment penalty, 16
university, 67	registration fee, 16
Honors College, 413	Latin American
courses (HC), 414	language and civilization, 163
Housing, 45	studies program, 139
Human Development and Child Studies	Legal assistant program, 77, 219
courses (FE, SE), 320, 321	Library, 75
Department of, 320	







	1 000
Licensure, nursing, 423	journalism, 239
Linguistics	Latin American language and
concentration, 120, 143, 226, 235, 342	civilization, 163
courses (LIN), 145	Latin American studies, 139
Department of, 143	linguistics, 143
Literatures in translation courses	management information systems, 285
(LIT), 175	marketing, 285
Lowry Center for Early Childhood Education,	mathematics, 152
42, 308	mechanical engineering, 360
Macomb University Center, 77	medical laboratory sciences, 399
MACRAO agreement principles, 63	medical physics, 211
Major requirements, arts and sciences, 81	multiple, 84
Majors (see also modified majors)	modern languages, 162
accounting, 282	music (Bachelor of Arts), 178
additional, 61	music (Bachelor of Music), 182
African and African-American	music education, 181
studies, 138	nursing, 418
anthropology, 245	performing arts, 179
applied statistics, 153	philosophy, 204
art history, 88	physical therapy (see Health Sciences), 407
arts and sciences, 82	physics, 211
biochemistry, 83, 98, 110, 255	political science, 217
biology, 96	psychology, 225
chemistry, 107	public administration/public
Chinese studies (see East Asian studies),	policy, 218
138	Registered Nurse sequence, 420
communication, 235	Russian language and civilization, 163
computer engineering, 345	Slavic studies, 139
computer science, 348	sociology, 244
East Asian studies, 138	sociology and anthropology, 245
economics (Bachelor of Arts), 115	South Asian studies, 139
economics (Bachelor of Science), 286	Spanish language and literature, 172
electrical engineering, 351	systems engineering, 354
elementary education, 310	teaching, 312, 313
elementary teaching, 165, 311	two modern languages, 162
engineering chemistry, 108, 366	Women's Studies, 261
engineering physics, 212, 367	Wellness Health Promotion, and Injury
English, 120	Prevention Program, 408
English Proficiency Policy, 56	Major standing
environmental health, 83, 257	biochemistry, 255
finance, 283	biology, 95
French language and literature, 166	business administration, 280
general management, 280	chemistry, 106
German language and literature, 168	computer science, 337
health sciences, 385, 392	economics (Bachelor of Arts), 116
history, 127	economics (Bachelor of Science), 288
human resource development, 323	elementary education, 311
human resources management, 284	engineering, 337
independent, 84	journalism, 239
industrial health and safety, 395	modern languages, 162
international studies, 137	music, 178
Japanese studies (see East Asian studies),	Management courses (MGT), 300
138	Courses (IVIO 1), 500



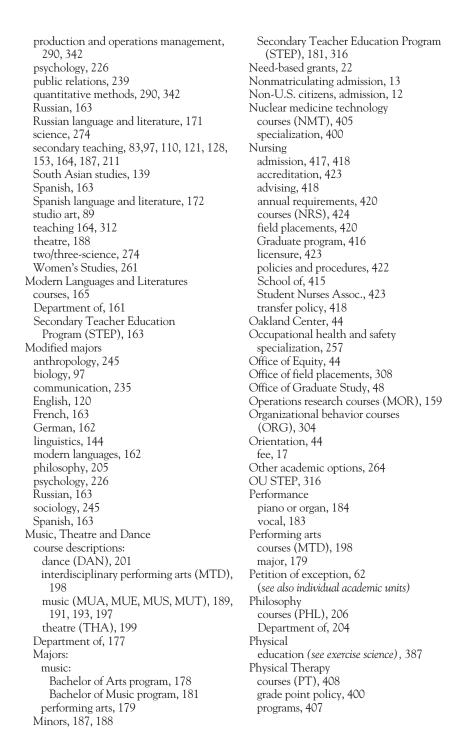


Management information systems courses (MIS), 301	applied mathematics, 340 art history, 87
major, 285	biology, 99, 87
minor, 290	chemistry, 110, 340
Marketing	Chinese studies (see East Asian and
courses (MKT), 303	international studies), 138
major, 285	communication, 236
minor, 290	computer science
Master's programs	(for mathematics majors), 154
business administration, 278 education, 307	(for nonengineering majors), 266, 360 computing, 266, 350
engineering and computer science, 333	dance, 183
graduate degrees, 48	East Asian studies, 138
interschool MBA, 84	economics, 117, 289, 341
Mathematical methods of operations	elementary teaching, 165, 312
research courses (MOR), 159	English, 121
Mathematics and Statistics	environmental health, 258
courses (MTH, APM, STA, MOR), 155,	environmental studies, 341
157, 158, 159	exercise science, 388
for elementary education (MTE), 159	finance, 289
Department of, 151	for engineering and computer science
Secondary Teacher Education	majors, 340
Program (STEP), 153	for general studies majors, 384
McCree, Wade Incentive Scholarship	for liberal arts programs, 84
Program, 47	for nonbusiness majors, 288
Meadow Brook	French, 169
Art Gallery, 7	French language and literature, 166
Hall, 7	general business, 289, 341
Health Enhancement Institute, 385	German, 164
Music Festival, 7	German language and literature, 168
Theatre, 7	history, 129
Mechanical Engineering	human resource development, 324
courses (ME), 375	human resources management, 290
Department of, 359	industrial health and safety, 395
major, 360	international management, 290
Medical (2.41.62) 423	international orientation for engineering/
laboratory sciences courses (MLS), 403	computer science students, 341
laboratory sciences program, 398	international studies, 138
grade point policy, 400	Japanese language and civilization, 171
physics, 210	journalism, 239
Michigan	labor and employment studies, 325
studies concentration, 269	Latin American studies, 139
courses (MC), 269	linguistics, 144, 342
teaching certification, 314	management information systems, 290, 342
Microbiology specialization, 97	marketing, 290
Minors	mathematics, 154
accounting, 288, 340	modern language, 164
advertising, 239	modern languages and literatures, 164
African and African-American studies	music, 188
(see international studies), 138	philosophy, 205
anthropology, 245	physics, 213, 342
applied statistics, 340	political science, 218













Physics	Readmission, 17, 71
advising, 211	Records, academic, 66
courses (PHY), 213	Recreation, Campus, 41
Department of, 210	Refund of fees, 18
engineering physics, 212	Registered Nurse sequence, 420
Secondary Teacher Education	Regulations governing courses, 51
Program (STEP), 213	Religious studies
Placement	concentration, 270
advanced, 13	courses (REL), 271
and career services, 44	Repeating courses, 53
exams	Research opportunities, 14, 109
mathematical sciences, 152	Residency
modern languages, 162	classification, 18
in rhetoric courses, 232	application process, 21
testing, 45	halls and university housing, 45
Plan of study	service fees, 17
engineering and computer science, 334	Responsibility, student, 50
nursing, 419	Rhetoric, Communication and Journalism
Planning pages, 466, 467	courses (COM), 236; (JRN), 240;
Political science	(RHT), 232
courses (PS), 220	Department of, 231
Department of, 217	programs, 232, 234, 239
Postbaccalaureate status, admission, 13	Role and Mission, 8
Pre college programs, 47	Russian
Pre-elementary education, 310	courses (RUS), 171
Prelaw studies, 219, 273	language and civilization, 163
Premedical studies, 274	Scholarships, 31
Prenursing year, 417	Science
Preprofessional studies in medicine,	liberal arts minor, 274
dentistry, optometry and veterinary	studies courses (SCS), 316
medicine, 98, 110, 270, 399	Second undergraduate degrees, 61
Preprofessional studies for physician assistant,	Secondary
399	certification, 83
Privacy Act, 66	education courses (SED), 318
Probation, academic, 69	teaching education program (STEP), 316
Problem resolution, 72	teaching minors, 85
Production and operations management	biology, 99
courses (POM), 305	chemistry, 110
minor, 290, 342	dance, 187
Psychology (DCV) 226	English, 121
courses (PSY), 226	history, 129
Department of, 225	mathematics, 153
Public administration/public policy program, 218	modern languages, 163
	physics, 213
Public relations minor, 239 Overticative methods governo (OMM), 305	political science, 218
Quantitative methods courses (QMM), 305	sociology, 246 Teacher Education Program (STEP),
minor, 290, 342 Radiation therapy	83, 316
courses (RT), 405	biology, 97
specialization, 402	chemistry, 109
Reading and Language Arts	English, 121
courses (RDG), 329	history, 128
Department of, 329	1, 220







mathematics, 153	Study abroad, 15, 139, 165
modern languages, 163	Supplemental Instruction (SI), 40
music, 187	S/U grading option, 65
physics, 211	Systems engineering
Sigma Theta Tau, 423	courses (SYS), 378
Skill development	major, 354
courses (MTH 011-012), 154	Teacher certification, 314
Social studies, teaching minor, major, 313	Teaching majors/minors (SEHS), 312, 313
Social Work concentration, 272	Teaching minor, dance, 187
Sociology and Anthropology	Test preparation workshops, educational, 78
courses (AN), 246; (SOC), 250	Testing services, 47
Department of, 244	Theatre courses (THA), 199
South Asian studies program, 139, 205	Theatre performance, 180
Spanish	Theatre production, 180
courses (SPN), 172	
language and literature, 162	Theory and composition, music
	courses (MUT), 197
Special	Time limits, 74
education course (SE), 321	Toxic substance control specialization, 258
opportunities for students, 14	Transcripts (see Academic records), 66
Specializations 07	Transfer
anatomy, 97	admission, 62
cytotechnology, 401	arts and sciences provisions, 64, 81
dance, 179	business administration, 291
defined, 55	community college, 63
environmental and resource	credit evaluation, 63
management, 258	engineering and computer science, 334
histotechnology, 401	general education, 64
medical technology, 402	nursing, 411
microbiology, 97	practices, 62
music theatre, 180, 181	principles, 63
nuclear medicine technology, 402	student information, 63
occupational health and safety, 257	writing proficiency, 54-55
radiation therapy, 402	Translation certification, 164
theatre performance, 181	Tuition and fees, 15
theatre production, 181	Tutorial assistance
toxic substance control, 258	(see Academic Skills Center), 40
Statistics and Mathematics	Two-plus-two program, 246
Dept of, 151	Two modern languages program, 162
Statistics courses (STA), 158	Undergraduate degree requirements, 53
Student	University
Activities and Leadership Development, 46	faculty, 428
Affairs, Division of, 40	honors, 67
employment, 22	library, 75
International, 43	offices, 446
Nurses Association of Oakland University,	Senate, 452
423	Student Congress, 46
organizations, activities, 46	Upward Bound program, 47
responsibility, 50	Urban studies concentration, 273
standards, 68	Urdu courses (HIU), 170
Studio art	Veterans, 22
courses (SA), 93	Vocal music education, 183
minor 89	





Wellness, Health Promotion and Injury Prevention Program, 408
Withdrawals, undergraduate, 72
Women's studies
courses (WS), 262
Program, 261
Writing proficiency requirement, 54





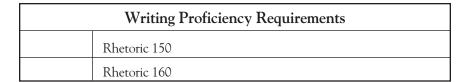


PLANNING PAGE

General Education Requirements			
Date	Field Category	Course Taken	Credits
	Arts		
	Literature		
	Language		
	Western Civilization		
	International Studies		
	Social Science		
	Mathematics		
	Natural Science		

Total credits	
(Mininum 32)	





Ethnic Diversity Requirements	
	Course Taken



PLANNING PAGE 467

College or School Requirements					
Date	Field Category	Course Taken	Credits		

Total	credits	

Major Requirements

Date	Category	Courses Taken	Credits

Total credits





468 CAMPUS MAP

Oakland University

- 1. Campus Facilities and Operations
- 2. Police and Support Services Building
- 3. Belgium Barn
- 4. Varner Hall Varner Recital Hall Studio Theatre
- 5. Elliot Hall
- 7. Kresge Library
- 8. Science and Engineering Building
- 9. Hannah Hall of Science
- 10. Dodge Hall of Engineering
- 11. South Foundation Hall
- 12. North Foundation Hall
- 13. Oakland Center
- 14. Wilson Hall
- 15. Meadow Brook Theatre and Art Gallery
- 16. Graham Health Center
- 17. Vandenberg Hall
- 18. Hamlin Hall
- 19. George T. Matthews Apartments
- 20. Hill House
- 21. Van Wagoner House
- 22. Fitzgerald House
- 23. Anibal House
- 24. Pryale House
- 25. Central Heating Plant
- 26. Recreation and Athletics Center
- 27. O'Dowd Hall
- 28. Grounds/Maintenance
- 29. Clinical Research Lab
- 30. Kettering Magnetics Lab
- 31. Observatory
- 32. Lowry Child Care Center
- 33. Golf Course Clubhouse
- 34. John Dodge House
- 35. Meadow Brook Hall
- 36. Carriage House
- 37. Sunset Terrace

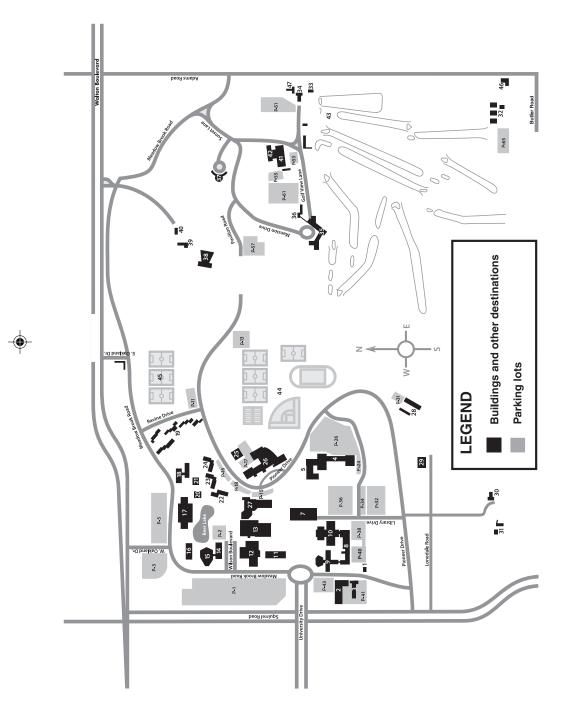
- 38. Baldwin Memorial Pavilion
- 39. Trumbull Terrace
- 40. Meadow Brook Music Festival Ticket Office
- 41. Shotwell-Gustafson Pavilion
- 42. Meadow Brook Health Enhancement Institute
- 43. Katke-Cousins Golf Course
- 44. Pioneer Field (lower)
- 45. Pioneer Field (upper)
- 46. Varner House
- 47. Meadow Brook Greenhouse







CAMPUS MAP 469







469









































