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AKLAND UNIVERSITY

GRADUATE CATALOG

1975 - 76



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 State Senate. The president of the university is appointed by the Board of Trustees and is an ex-officio member without vote. The board also appoints a secretary and treasurer.

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REFERENCE

This catalog describes in detail the undergraduate offerings at Oakland University, necessary information on admission, fees, and support programs, along with general information on the university. The university also offers an extensive graduate program at the master's level and a limited offering at the doctoral level. For information on graduate programs, consult the *Oakland University Graduate Study Catalog, Volumes I and II*.

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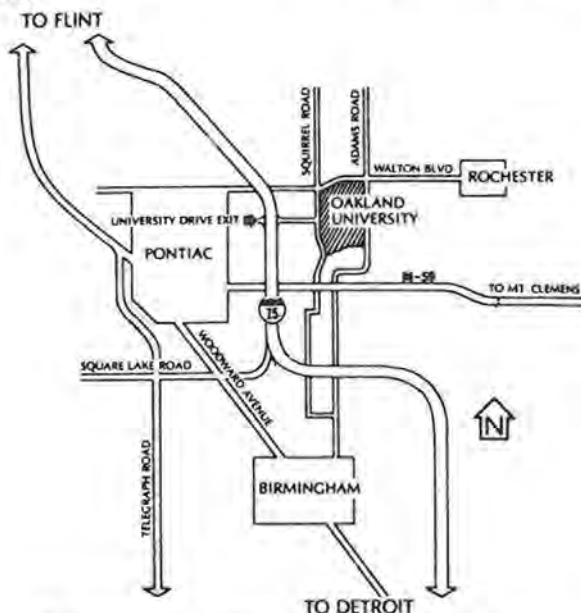
INTRODUCTION

Oakland University is a medium-size public institution with a diverse set of academic offerings at the undergraduate and graduate levels. Anchored by a strong liberal arts program, the university is organized into a College of Arts and Sciences, and Schools of Economics and Management, Education, Engineering, Nursing, and Performing Arts.

All academic programs of the university are accredited by the North Central Association of Colleges and Secondary Schools.

The university faculty, whose number now exceeds 400, has a distinguished record of research and scholarship. One of the focal points of the research is the Institute of Biological Sciences, a nationally-recognized center for research of the eye. The university has also established national reputations in several undergraduate and graduate degree programs.

Complementing its academic program, Oakland has a major public service program, with particular emphasis on the professional performing arts. The Meadow Brook Theatre, a professional theatre, is located on the campus. The Meadow Brook Music Festival is the summer home of the Detroit Symphony Orchestra. In addition, Meadow Brook Hall, the home of the university's benefactors, now serves as a major conference and cultural center.



For complete campus map, see page 315.

The university was founded in 1957 when the late Mr. and Mrs. Alfred G. Wilson donated their 1,600 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, the name was changed to Oakland University, and in 1970 the State Legislature recognized the maturity and stature of Oakland and granted the university its independence. The Governor appointed Oakland's first Board of Trustees in the fall of 1970.

Located between the cities of Pontiac and Rochester, Oakland is easily accessible to millions of residents of the metropolitan Detroit area because of its proximity to major freeways. The natural beauty of the campus, much of it still wooded and undeveloped, is enhanced by a comprehensive set of recreation facilities and a modern, \$57 million physical plant that houses the university's academic and public service programs. The university has seven residence halls with a capacity for 1,800 students.

1975-76 CALENDAR

1975 FALL SEMESTER

August 28-29	Thursday and Friday	Registration
September 2	Tuesday	Classes begin
November 27-28	Thursday and Friday	Thanksgiving recess
December 1	Monday	Classes resume
December 12	Friday	Classes end
December 15-19	Monday—Friday	Final examinations
December 19	Friday	Close of fall semester

1976 WINTER SEMESTER

January 5-6	Monday and Tuesday	Registration
January 7	Wednesday	Classes begin
March 11 and 12	Thursday and Friday	Winter recess
March 15	Monday	Classes resume
April 16	Friday	Classes end
April 19-23	Monday—Friday	Final examinations
April 23	Friday	Close of winter semester

1976 SPRING SESSION

April 27	Tuesday	Registration
April 28	Wednesday	Classes begin
May 31	Monday	Memorial Day holiday
June 1	Tuesday	Classes resume
June 5	Saturday	Commencement
June 18	Friday	Classes end
June 21-22	Monday and Tuesday	Final examinations

1976 SUMMER SESSION

June 24	Thursday	Registration
June 25	Friday	Classes begin
July 5	Monday	Independence Day holiday
July 6	Tuesday	Classes resume
August 13	Friday	Classes end
August 16-17	Monday and Tuesday	Final examinations

1976-77 CALENDAR

1976 FALL SEMESTER

August 30-31	Monday and Tuesday	Registration
September 1	Wednesday	Classes begin
September 6	Monday	Labor Day holiday
September 7	Tuesday	Classes resume
November 25-26	Thursday and Friday	Thanksgiving recess
November 29	Monday	Classes resume
December 10	Friday	Classes end
December 13-17	Monday—Friday	Final examinations
December 17	Friday	Close of fall semester

1977 WINTER SEMESTER

January 3-4	Monday and Tuesday	Registration
January 5	Wednesday	Classes begin
March 2-4	Wednesday—Friday	Winter recess
March 7	Monday	Classes resume
April 15	Friday	Classes end
April 18-22	Monday—Friday	Final Examinations
April 22	Friday	Close of winter semester

1977 SPRING SESSION

April 26	Tuesday	Registration
April 27	Wednesday	Classes begin
May 30	Monday	Memorial Day holiday
May 31	Tuesday	Classes resume
June 4	Saturday	Commencement
June 17	Friday	Classes end
June 20-21	Monday and Tuesday	Final examinations

1977 SUMMER SESSION

June 24	Friday	Registration
June 27	Monday	Classes begin
July 4	Monday	Independence Day holiday
July 5	Tuesday	Classes resume
August 16	Tuesday	Classes end
August 17-18	Wednesday and Thursday	Final examinations

GENERAL INFORMATION

ADMISSION

Admission to Freshman Standing

Candidates for admission to the undergraduate degree programs should have completed regular college preparatory work at the high school level or otherwise demonstrated sufficient academic preparation to begin or continue college work. Highly qualified students may be admitted without regard to the pattern of subject matter completed at their high school. Students planning majors in the sciences, mathematics, engineering, or management, must present at least three years preparation in mathematics, including algebra, geometry, and trigonometry. Consideration for admission is based upon an applicant's total background including high school academic achievement, recommendations, aptitude test scores, educational goals, and potential for success at the university.

Application forms are available from high school counselors or from the university Office of Admissions and should be submitted as early as possible in the senior year. Students who are residents of the State of Michigan are strongly urged to submit scores from either the Scholastic Aptitude Tests (SAT) or the American College Testing (ACT) program. These test results will be used in advising candidates about courses of study and in assisting them to assess their qualifications for alternative course sequences in the curriculum. Students from states other than Michigan must present results from either the SAT or ACT.

Admission of Transfer Students

Transfer students may enter Oakland University at four different times: Fall semester, winter semester, spring session, or summer session. Students are encouraged to submit their applications approximately six weeks before the beginning of the semester in which they wish to enroll. To be eligible to enter as a transfer student, a candidate must be in good standing and eligible to return to his/her former educational institution. All transfer candidates must complete an application form and request the registrar of his/her institution to send an official transcript of record.

Admission of Transfer Students from Michigan Community Colleges

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

A student may transfer to the university a maximum of 62 semester credits earned at a community college. Students whose academic records combine work at both two- and four-year institutions may transfer only 62 semester credits if the last institution attended was a community or junior college. Transfer credit will be granted for those courses in which a student received a C (or equivalent) or better. Technical and applied science courses will be granted credit only where the courses are directly relevant to the student's intended major.

Recommended Preparation for Transfer

Oakland University participates in the Michigan Community College/Senior College Agreement. Graduates of consenting Michigan public community colleges are considered to have met freshman and sophomore general education requirements. Other transfer students may present a wide variety of course work for transfer credit. Most community college transfer students concentrate on completing courses related to general education prior to transfer. Although the university allows maximum flexibility for meeting the general education requirements, the transfer student is advised to choose courses in such a manner so as to meet the majority of Oakland's general education requirements prior to transfer. For information on Oakland's general education program, see page 37.

Admission of Students Who are Not Citizens of the United States

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

tion, proof of adequate medical insurance plus a signed authorization for emergency medical treatment must be on file in the university health center.

Students who are not citizens of the United States and who are transferring from other institutions to the university, must apply for permission to do so through the Immigration Office nearest them. Before applying for permission to transfer, the candidate must be in possession of form I-20 from Oakland University and form I-538 from the school from which he/she is transferring.

Admission to Guest Status

Students enrolled at other colleges and universities may apply for guest admission status by filing the Michigan Uniform Undergraduate Guest Application form, which is obtainable from the registrar's office of their home institution. Students attending Michigan colleges and universities are not required to submit transcripts. In addition, students attending colleges outside the State of Michigan may apply for guest admission by filing Oakland University's guest application form and arranging to have a transcript of grades forwarded to the Admissions Office.

Readmission

A student whose attendance at Oakland is interrupted for one or more semesters must apply for readmission. Readmission is automatic for students who left the university in good standing and who have not attended another college or university. Application should be made to the Readmission Office at least one month prior to the beginning of the semester the student expects to re-enter. Students who have attended another college or university during their absence from Oakland must pay a \$15 application fee. A check in this amount, payable to Oakland University, should accompany the application.

Advanced Placement

Credit toward graduation is granted to students presenting evidence of satisfactory completion of courses in high school under the Advanced Placement Program of the College Entrance Examination Board. Oakland gives credit for grades "5" or "4" in the Advanced Placement examinations. If a grade of "3" or "2" is achieved, the examination is subject to review by the department concerned, which may grant advanced placement with or without credit toward graduation.

Credit by Examination and Accelerated Degree Program

Credit toward graduation can be granted to students demonstrating competency in the various subjects tested in the College-Level Examination Program administered by the College Entrance Examination Board, Princeton, New Jersey 08540. Candidates who wish to use this test as an admissions credential should have their scores forwarded to the director of admissions.

Candidates entering Oakland University who have had no previous college experience and who have demonstrated superior preparation and accomplishment can be considered for admission into the Accelerated Degree Program. Students who are successful in entering the program will be awarded credit toward graduation based on the College-Level Examination Program to the extent that they will earn the baccalaureate in three academic years. Specific requirements for admission to the Accelerated Degree Program may be obtained from high school counselors or by contacting the director of admissions.

Health Certification Requirement

As a condition of enrollment, all full-time students must complete a physical examination. The results of the examination should be recorded on the university health form, and this form must be submitted to the Health Center prior to enrollment. A full-time student is one who is carrying 10 or more credits. All full-time transfer students may request that their physical examination records be sent from their previous institutions if these records are not more than a year old.

All foreign students must have a physical examination form on file in the health center; they must also have health insurance, which is available through a university program or which may take the form of a policy issued by a firm in their home country.

Financial Aid

Oakland University offers aid to students who do not have sufficient funds to finance their education. Grants-in-aid are offered to complement the three federal campus-based programs—the Supplemental Educational Opportunity Grant, the National Direct Student Loan, and the College Work Study Program. The university also coordinates two noncampus-based federal programs—the Basic Educational Opportunity Grant and the federally insured Guaranteed Student Loan programs.

The National Direct Student Loan and the federally insured Guaranteed Student Loan offer funds at low interest rates with long repayment periods.

In addition, the following scholarships are awarded each year as part of the Financial Aid Program:

- Alvin M. Bentley Foundation Award
- Don Iodice Grant-in-Aid for Foreign Study
- Isaac Jones Memorial Scholarship
- Oakland Alumni Association Upperclass Scholarship
- Pontiac Central High School Scholarship
- Gladys B. Rapoport Scholarship
- Daily Tribune Carriers Scholarship

Procedures for Applying for Aid

Entering freshmen and transfer students must submit a confidential financial statement to the College Scholarship Service. They must also file an Oakland Application for Financial Aid and a copy of their most recently filed Federal Income Tax Form 1040 (including W-2 forms) with the university financial aid office (205 Wilson Hall). Continuing or re-admitting students should follow the same procedure, and application must be made each year that renewal of aid is desired.

All students should apply for the federal Basic Educational Opportunity Grant.

All application materials may be obtained from the financial aid office, from high school counselors, and from the Oakland admissions office.

Stipends vary, and may range from an amount equal to full tuition, room and board, to a minimal amount depending upon the degree of financial need demonstrated in the application.

Short-Term Loans

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

- Century Brick Loan Fund
- Davis R. Robson Memorial Loan Fund
- Pontiac Kiwanis Club Loan Fund
- C. Allen Harlan Loan Fund
- H. H. Corson Loan Fund

Joan Selby Memorial Loan Fund
 Greater Pontiac Centennial Student Loan Fund
 Li Russ Club Student Loan Fund
 Walter K. Willman Loan Fund
 W. Everett Grinnell Loan Fund
 Oakland County Engineering Society Loan Fund
 Student Activities Coordinating Council Loan Fund
 John A. MacDonald Loan Fund
 Lathrup Village Women's Club Fund
 Piety Hill Chapter of the Daughters of the American Revolution of Birmingham Loan Fund
 Paul Solonika Loan Fund
 William Spickler Memorial Loan Fund
 George N. Higgins Loan Fund
 James Mangrum Loan Fund
 Pat Dandurand Memorial Loan Fund
 Civitan Loan Fund
 Oakland University Alumni Loan Fund
 Insurance Women of Detroit, Inc. Loan Fund
 Michael Werenski Memorial Loan Fund
 Mark Platt Memorial Loan Fund
 Women's Literary Club of Pontiac Loan Fund
 Emily Moses Memorial Loan Fund
 Henry Tiedemen Loan Fund

Scholarships

Scholarship opportunities at Oakland are not contingent upon the student demonstrating financial need. However, students may qualify for both financial aid and scholarships. Students who are interested in scholarships and who have financial need should follow the procedures for application and renewal of financial aid. Deadline for application for scholarships is March 1 preceding the year in which a student plans to enroll. The student must submit official transcripts from all secondary and postsecondary schools attended, along with an Oakland University Undergraduate Scholarship application form. Both the transcripts and applications should be sent to the director of admissions.

The wide breadth of scholarship opportunities at Oakland University is indicative of the scope of the university's commitment to academic excellence and student leadership. Major scholarships include:

The Mary Fogarty Anibal and Eleanor Anibal Burgum Memorial Scholarship: Awarded to students who have dem-

onstrated in high school that they are capable of superior scholarship at Oakland University. Stipends are \$2,000 per academic year and are awarded for a maximum of eight semesters. The student must maintain a cumulative grade point average of 3.50.

Student Life Scholarships: awarded to students who have leadership potential. Students must have a 3.00 average and be active in cocurricular and extracurricular activities. Stipends are for room and board only and range from \$600 to \$1,200 per year. They may be renewed for a total of eight semesters.

Community College Scholarships: designed to recognize academic achievement of students transferring from accredited community or junior colleges in Michigan. Candidates should have a minimum grade point average of 3.50 for 55 semester hours of work. Stipends are \$300 per semester, for a maximum of four semesters. Students must maintain a 3.00 grade point average.

Oakland University Competitive Scholarships: awarded to freshmen on the basis of high school grades and scores on the OU Competitive Scholarship Exam. The exam is normally administered in November of each year. Stipends are \$300 to \$600 per academic year and may be renewed for a total of eight semesters as long as a student maintains a 3.00 grade point average.

Engineering Scholarships: awarded to entering engineering students on the basis of high school grades and scores on the OU Engineering Scholarship Exam. The exam is normally administered in January or February of each year. Stipends are \$600 per academic year and may be renewed for a total of eight semesters as long as a student maintains a 3.00 grade point average and continues to major in engineering.

Athletic Scholarships: awarded to men and women athletes with ability in one of the intercollegiate sports offered at Oakland University. Stipends vary and are renewable for a total of eight semesters.

Music Scholarships: awarded to either freshmen or community college transfers who have exceptional ability in a music performance medium. Candidates must audition with the Department of Music. Stipends are \$250 and \$500 per academic year and may be renewed for a total of eight semesters as long as the student continues to major in music.

Black Scholarship Program: awarded to outstanding black students entering Oakland University as freshmen. Candi-

dates must have demonstrated their capability of achieving scholastic excellence and assuming a leadership role at Oakland University through their performance in high school. Stipends are \$500 per academic year and may be renewed for a total of eight semesters as long as student maintains a 3.00 grade point average.

Honors Scholarships: awarded to students with a 3.75 grade point average in high school. Stipend is \$100 to \$200, and is not renewable. It is offered only to students who do not receive any other scholarship or financial aid assistance.

Upper Class Achievement Scholarships: awarded to continuing Oakland students on the basis of scholastic achievement. Candidates must have a 3.50 grade point average at the end of the winter semester prior to the year in which the scholarship is to be awarded. Recipients are expected to be enrolled for 16 credits each in the fall and winter semesters. Application for scholarship must be made each year, and the award is not automatically renewable. Stipends are one-half tuition.

Edith Harris Memorial Scholarship: awarded to mature students with family responsibilities who have experienced interruptions in their education for the baccalaureate degree. Awards are based on academic excellence. Candidates are expected to have completed 28 credits in the academic year preceding the award and recipients are expected to enroll for a minimum of 12 credits in each semester in which the award is received. Stipend is one-half tuition for the academic year.

All scholarships listed above are contingent upon the student maintaining normal progress toward graduation. Other scholarships awarded each year include the Sally Borus Piano Award, the Boys Club of Royal Oak Scholarship, the Lee Grekin Memorial Scholarship, and the Friends of Teruko Yamasaki Award.

Funds for the Oakland University Scholarship Programs are derived from the general budget, gifts from individuals, groups and corporations, and from the fund raising efforts of the Oakland University Scholarship Committee for Macomb County. The scholarship funds are:

Mr. and Mrs. Benjamin Anibal Scholarship Fund
 Campbell-Ewald Scholarship Fund
 John Engerson Memorial Scholarship Fund
 George H. Gardner Scholarship Fund
 C. Allen Harlan Scholarship Fund
 Herbert M. Heidenreich Scholarship Fund
 Ormond E. Hunt Scholarship Fund
 Mr. and Mrs. Roger M. Kyes Scholarship Fund

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

TUITION AND FEES

The Board of Trustees of Oakland University reserves the right to change any and all fees and rates of charge at such times as conditions or circumstances make change necessary.

All fees are assessed and payable, in U.S. dollars, at registration or as otherwise hereinafter provided. Students are urged to use checks or money orders payable to Oakland University, rather than cash, for the payment of fees. If checks or money orders are in excess of the required payments, the balance will be given to the student.

Course Fees: On-Campus Programs

All course fees and special fees must be paid in full before a registration is considered final. Partial payment in connection with early registration is an accommodation to students and requires subsequent payment of fees in full to validate the registration.

Students who are residents of Michigan and register as undergraduates are assessed \$20.50 per credit. Those who register as graduate students are assessed \$28.00 per credit. All students who have not established Michigan residency are assessed \$58.00 per credit.

Course Fees: Off-Campus Extension Programs

Students who register as undergraduates for off-campus extension courses are assessed \$26.50 per credit. Those who register as graduates are assessed \$35.00 per credit.

Special Fees

Undergraduates who register for 10 or more on-campus program credits are charged an additional \$24 (\$10 Oakland Center fee, \$8

transportation fee, \$5 activity fee, and \$1 Wilson Memorial Library fee).

Undergraduates who register for less than 10 on-campus program credits are charged an additional \$13.50 (\$5 Oakland Center fee, \$4 transportation fee, \$3.50 activity fee, and \$1 Wilson Memorial Library fee).

Graduates who register for 10 or more on-campus program credits are charged an additional \$19 (\$10 Oakland Center fee, \$8 transportation fee, and \$1 Wilson Memorial Library fee).

Graduates who register for less than 10 on-campus program credits are charged the \$4 transportation fee in addition to course charges.

Special fees are also charged for applied music instruction and some laboratory courses. These fees are charged per course as follows:

Studio Art 100, 101	\$10
Biological Sciences 112, 114	10
Chemistry 107, 117, 118	10
Physics 158	10
Engineering 172	10
Computer Science 180, 182	10
Education 585	10
Education 597	25
Applied Music	
Individual Instruction	60
Group Instruction	15

Course Competency By Examination Fee

Students who are residents of Michigan and register as undergraduates for course competency by examination are assessed \$12 per credit. See page 40 for course competency regulations. Those who register for course competency as graduate students are assessed \$15 per credit.

All students who are not residents of Michigan are assessed \$33 per credit for course competency registrations.

Late Registration Fee

Students registering or paying initial fees after 8:00 a.m. the day classes officially begin will be required to pay an additional, non-refundable fee of \$15. Students who take courses exclusively

within a program scheduled to register after the beginning classes will not be required to pay the late registration fee if they register during the special registration period scheduled for such groups.

Late Add Fee

Students adding classes after the end of the second week (first week for spring and summer sessions) of classes will be required to pay a fee of \$5 per class in addition to the cost of the credits added.

Application Fee

A fee of \$15 must accompany all applications from students applying to degree programs. This is a processing fee which is paid only once and is not refundable. Guest and post-baccalaureate students are not required to pay this fee.

Enrollment Deposit

Within three weeks after notification of admission, an enrollment deposit of \$50 must be paid. This deposit will be applied to the student's account and offset against future fees. For students applying for entrance to the fall semester one-half of the deposit is refundable if the university is notified before April 1 that the student does not intend to enroll. No refunds will be made after the cut-off date. Dates applicable to the winter semester and spring and summer sessions will be announced.

Orientation Fee

An orientation fee of \$35 for all freshmen and \$10 for all transfer students and exclusively evening students is charged to cover the expense of orientation and the ongoing advising process.

Fees for Residential Services

The residence halls are financially self-supporting. Housing fees reflect the actual cost of operation and are established by the University's Board of Trustees. The 1975/76 rate for the academic year is \$1,418, which includes charges for room and board of \$1,380, hall government fee of \$8, and a debt service reserve charge of \$30. Single rooms may be rented, as available, for an additional charge of \$250. Special options of room only (\$880) and cooperative housing (\$712) are available to upperclass students.

If the student signs a housing contract prior to or during the fall semester, that contract is binding for both the fall and winter semesters. If the contract is signed during the 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 time or paid in four installments, the first of which is due at registration. The remaining three installments are due respectively on the tenth day of each of the three months following registration.

If a student withdraws from the university, room and board fees are refunded on a prorated basis net of an early withdrawal assessment of \$30.

Refund of Fees

A student who withdraws from the university or drops a course which reduces his/her total credit load will receive a refund of fees upon application to the appropriate office. Undergraduate students withdrawing from the university apply to the Office of Student Services. Graduate students withdrawing from the university apply to the Office of the Dean of Graduate Studies. Changes in enrollment are processed in the Office of the Registrar. The amount of refund will be based on the following schedule.

Date Application is Received	Tuition Refund
Before the beginning of classes	100%
After the beginning of classes and before the beginning of the second week	80%
During the second week of classes	70%
During the third week of classes	60%
During the fourth week of classes	50%
During the fifth week of classes	40%
During the sixth week of classes	30%
During the seventh week of classes	20%
After the beginning of the eighth week of classes	0%

The date the application is received in the proper office determines the percentage of refund.

Refund checks will be mailed approximately four weeks after application has been made.

Out-of-State Tuition Regulations

Students enrolling at Oakland University shall be classified as in-state or out-of-state students for purposes of assessing tuition

charges. It is the student's responsibility to register each semester or session under the proper in-state or out-of-state classification. For the purpose of these regulations, an in-state resident shall be defined as a person who has a Michigan domicile and has resided in Michigan 12 months immediately preceding his/her enrollment.

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

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

Any student who has acquired a bona fide domicile in Michigan subsequent to being classified as an out-of-state student may apply for reclassification to in-state status by obtaining an application for reclassification from the Registrar, 161 North Foundation Hall. The student shall complete the application and list in detail the reason(s) he/she is a bona fide domiciliary of Michigan, primarily as a permanent resident and not merely as a student, and attach documentary data in support thereof, and return the application to the university registrar 30 days prior to the beginning of classes of the semester or session for which the reclassification shall be effective. The following facts and circumstances, although not necessarily conclusive, have probative value in support of a claim of a residence reclassification:

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

8. Other factors indicating an intent to make Michigan the student's permanent domicile will be considered by the university in reclassifying a student.

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

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

Any student desiring to challenge his/her classification under the foregoing regulations of the Board of Trustees shall have the right to petition an appeal of the determination. Petitions of Appeal and inquiries regarding these out-of-state tuition regulations should be addressed to Chairperson, Out-of-State Tuition Committee.

ORIENTATION

All students new to Oakland are expected to attend an initial orientation session prior to their first registration. During the initial orientation session, the students are advised as to which courses to take, are exposed to the essential policies and procedures which govern student status, and are exposed to the many services and activities available for students. At the conclusion of the initial orientation session, students then register for their first semester courses. Prior to the orientation session students are requested to attend a testing session in which Oakland placement tests are administered.

After the semester begins, several on-going orientation programs are offered. These programs are directed towards meeting students' concerns at particular time periods and are designed to assist the student to utilize the collegiate environment as a vehicle to maximize his/her potential and to give the institution a continued opportunity to communicate the resources available.

An initial fee of \$35 for freshmen and a fee of \$10 for transfers is charged to cover the costs of the on-going orientation program and is assessed of all new students whether or not they attend the orientation programs.

RESIDENCE HALL FACILITIES

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

The university maintains seven residence halls which offer variety in program, accommodations, and size. They are attractively grouped on spacious wooded grounds overlooking a small lake and are all within convenient walking distance of classroom buildings. Anibal, Fitzgerald, and Pryale houses are L-shaped buildings with 24 double rooms in each wing; the wings are joined by a student lounge. Hill and Van Wagoner are six-story units containing 100 double rooms, a lobby, lounge, and recreation room. Vandenberg is a seven-story, twin-tower structure. It contains 285 double rooms, student lounges, multiple-use areas, study and seminar rooms, and recreation areas. Hamlin Hall houses 676 students. A nine-story hall, it has a main lounge, a lounge on each floor, classrooms, and several multipurpose areas.

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

Food service for resident students is managed by Saga, Inc. a professional catering service. The dining room in Vandenberg Hall provides cafeteria-style service for resident students and their guests. Special dinners, often featuring ethnic or national foods, are planned at regular intervals.

To be eligible for university housing a student must be enrolled for a minimum of 8 credits, except with the permission of the director of residence halls. All full-time unmarried students who have earned less than 59 credits and who do not commute from the residence occupied solely by a single member family related

to the student at the time of registration, must live in university residence halls. Exceptions to this policy will be processed by an administrative committee. Exceptions granted to students under age 18 must be accompanied by a written endorsement of exception from the parent or legal guardian of the student.

To apply for residence, students should request university housing through the admissions office. A prepayment of \$25 should accompany the \$50 deposit required by the admissions office. This prepayment is credited to the first housing payment. Upon a student's acceptance at Oakland, his/her reservation will be processed by the residence halls office. Notification of assignment will be given approximately two weeks before the beginning of each semester. Returning students may renew housing contracts through the housing office.

Returning students may occupy their rooms the first day of registration for each semester and session; new students beginning with the day preceding the first day of classes. Room and board is not provided between semesters or during official recesses listed in the university calendar.

DIVISION OF STUDENT AFFAIRS

The primary objective of the Division of Student Affairs is to contribute to student development through a diversified program of educational services and activities. Opportunities are offered for students to receive assistance regarding personal and social problems, to experience group living, to share in student government, and to participate in cultural, intellectual, and social activities that are supportive of the student's academic development.

The division is comprised of the Office of Student Life, the Office of Student Services, the University Community Counseling and Psychological Center, the Graham Health Center, the Physical Education and Athletics Department, and the Public Safety Department. Services provided by the division are described below.

Student Life

The Office of Student Life is responsible for the operation of the university's residence halls, student organizations, commuter services, the Oakland Center, a variety of student activities and programs, and for working with student government activities.

The program of extracurricular activities is designed for flexibility. Student interests, varying from year to year, determine the strength and scope of existing campus organizations as well as

the initiation of new clubs and groups. During the past year, more than 80 organizations have been active on campus. Besides the various departmental and religious organizations, Oakland fosters a large variety of special interest groups, including Women's Potential, Commuter Council, Association of Black Students, Ski Club, the Abstention Coffeehouse, WOU Radio Station, Estudiantes de la Raza, Modern Dance Workshop, Freedom Enterprize Video Tape Network, and the Meadow Brook Ball. Any student who cannot locate a club which serves his/her particular interest is encouraged to form a new group through the Office for Student Organizations and Activities.

Cultural programs available for student participation include the Student Enterprise Theatre, which produces one major show per semester in the Barn Theatre at the south end of campus; the Student Enterprise Film Society, which has a regular weekly series of film showings that encompass a wide range of films from art/classic to current run popular movies; musical groups, including the Collegium Musicum, Oakland Singers, University Chorus, University Concert Band, University Orchestra, and the Afram Jazz Ensemble; and a concert/lecture program sponsored by University Congress.

Student government is composed of three major groups: University Congress, which is a campus-wide government; Commuter Council, which serves Oakland's commuting students; and Area Hall Council, which services residence hall students.

The Commuter Services office is designed to provide assistance to commuting students through a variety of programs, including transportation needs, lockers, off-campus housing, and activities for commuters.

The Oakland Center houses many of the student activities and student activity offices, as well as food service, meeting spaces, and indoor recreational activities.

Student Services

The Office of Student Services is administratively responsible for the academic advising, orientation, placement, veterans' services, and special student services programs of the university.

The Career Advising and Placement Office provides counseling services to graduating seniors interested in employment in industry, business, government service, teaching, and other professional fields. It also provides seniors with an opportunity to interview with employers who regularly recruit on campus. Occupational guidance and counseling is also available in the office.

A career library is maintained for students' use. Forms for the following examinations are provided: Federal Civil Service, National Teacher Exam, Graduate Record Exam, Law School Admission Test, and Graduate Study in Business.

The Special Programs office is designed to provide academic support for the student who needs special assistance for a successful academic experience at Oakland. This office is staffed with tutors, professionally trained counselors, and curriculum innovators. The office — in conjunction with the Department of Learning Skills — staffs and administers the Skill Development Center, the Reading Center, and the Writing Center. The Skill Development Center provides students with scheduled support seminars and tutorial assistance in an effort to maximize students' chances for success. Although initially designed to meet the needs of students assigned to the Special Programs office at the time of admission, the center is open to all students. The Reading and Writing Centers are designed to provide special assistance to students wishing to improve their skills in these areas.

Veterans may obtain counseling and other supportive services from a veterans' counselor. Veterans are also advised to keep in close contact with the Office of the Registrar, as that office is responsible for reporting to the Veterans' Administration.

A foreign student adviser is available to answer questions concerning immigration requirements; personal, academic, and financial problems; off-campus visits; and participation in community programs.

The academic advising program is described below. The orientation program is described on page 20.

Academic Advising

Three sources of assistance are available for academic advising at Oakland: faculty advisers within the academic departments, counselors within the Office of Student Services, and student advisers located in the Undergraduate Advisement and Counseling Center.

The structured academic advising program, coordinated by the Assistant Dean for Student Services, consists of:

1. Freshmen are assigned to work with individual faculty advisers in the various academic departments during their first year.
2. Upperclassmen who have selected a major are expected to go to their departmental office to request to see an available

adviser when they are desirous of advising.

3. Upperclassmen who have not yet selected a major may go to any academic department to request advising or they may ask to see a counselor in the Undergraduate Advisement and Counseling Office.
4. Student advisers are available to advise any students who would like to be advised by peer advisers.

It is the student's responsibility to take the initiative to talk with an adviser to insure that he/she is making proper progress towards meeting degree requirements.

Athletics

The Sports and Récreation Building houses a range of facilities for recreation; activities in eleven different sports can be carried on simultaneously. Included is a collegiate-sized swimming pool with diving area; courts for tennis, handball, paddleball, badminton, squash, basketball, and volleyball; equipment for fencing, gymnastics, modern dance, weight lifting, and wrestling. There are also outdoor courts, playing fields, golf course, and a ski slope with tow.

Oakland University's physical education program encompasses spontaneous and planned recreation, sports clubs, competitive intramural and extramural sports; competitive intercollegiate sports, and credit-granting courses. The program is designed and organized as a service program for all students as well as for the faculty and staff. It is directed to the participating individual, rather than the spectator.

The intramural sports program for students, faculty, and staff includes individual and team sports each term. Participants in the intramural team sports may represent teams or participate individually. Club sports are sponsored in bowling, fencing, ice hockey, and skiing. Men's intercollegiate sports are: cross country, soccer, basketball, swimming, baseball, wrestling, golf, and tennis. Women's intercollegiate sports include: volleyball, basketball, swimming, tennis, and golf. Oakland competes in the Great Lakes Intercollegiate Athletic Conference. Oakland is also a member of the NCAA Division II.

Health Services and Student Insurance

The Graham Health Center clinic is open Monday through Friday from 8:00 a.m. to 5:00 p.m. A minimum fee of \$3 is made for regularly enrolled students to see a physician. There is no charge to see a nurse. Health center charges for illness are covered by student insurance.

It is recommended all students have a physical examination. All students should complete the Authorization for Medical Treatment forms. All foreign students and minors must fill in these cards. It will be impossible for local hospitals to provide emergency medical or surgical treatment without a signed Authorization for Medical Treatment form. It is also important to have the name and the telephone number of family physicians in the event a case history should be required by the personnel giving emergency treatment.

The university encourages each student to have adequate medical coverage either through a family plan or through the student insurance plan. Information concerning student insurance is mailed to all students in August. Foreign students must have proof of insurance as well as signed Authorization for Medical Treatment forms in the health center.

Child Care

The School of Education early childhood program operates the Matthew Lowry Early Childhood Center for students with preschool children. Located at Adams and Butler Roads at the south east corner of the campus, the Toddler Center is available for children who are walking to 2½ years old, while The Child Care Center accommodates children from 2½ to 5 years old, provided the child is toilet trained. Both programs are designed to stimulate the developmental growth of children.

University-Community Counseling & Psychological Center

The Counseling Center is staffed with clinical and counseling psychologists who provide specialized counseling, consultation, and psychotherapy to Oakland students and to members of the general community with personal and interpersonal problems. The center also provides group therapy, marriage counseling, and child therapy. Use of the center is voluntary and is available by appointment at a minimal charge. All personal material discussed is held strictly confidential and does not become part of the student's academic record.

CAMPUS BUILDINGS

ACADEMIC, ADMINISTRATIVE, AND PUBLIC SERVICE

North Foundation Hall (1959), gift of Mr. and Mrs. Alfred G. Wilson, administrative offices

South Foundation Hall (1959), gift of Mr. and Mrs. Alfred G. Wilson, classrooms and administrative offices

Oakland Center (1959), self-liquidating funds, student center and food service

Kresge Library (1961), gift of the Kresge Foundation

John Hannah Hall of Sciences (1961), funds appropriated by the State of Michigan, classrooms, faculty and administrative offices

Sports and Recreation Building (1963), self-liquidating funds

Charles F. Kettering Magnetics Laboratory (1963), gift of the Kettering Foundation

Howard C. Baldwin Memorial Pavillion (1964), gifts from several foundations and other private sources, roofed pavilion, site of the Meadow Brook Festival

Lula C. Wilson Memorial Concert Shell (1964), gift of Lula C. Wilson Trust, accoustical shell at the Baldwin Pavilion

Trumbull Terrace (1965), gift of Mr. and Mrs. George T. Trumbull, food and service facilities for Baldwin Pavilion

Matilda R. Wilson Hall (1966), funds appropriated by the State of Michigan, classrooms, Meadow Brook Theatre, and faculty and administrative offices

Dodge Hall of Engineering (1968), funds appropriated by the State of Michigan and federal grants, classrooms, faculty and administrative offices

Graham Health Center (1968), self-liquidating funds, university health services

Paula and Woody Varner Hall (1970), funds appropriated by the State of Michigan and a federal grant, classrooms, recital hall, faculty and academic administrative offices

Central Heating Plant (1971), funds appropriated by the State of Michigan

Oakland University Observatory (1974), gift of Oakland University Foundation

Public Safety and Services Building (1975), funds appropriated by the State of Michigan

WILSON ESTATE BUILDINGS

Meadow Brook Hall, Conference and cultural center

Dodge Farm House, Continuum Center

Sunset Terrace, president's residence

There are a number of barns and other buildings from the Wilson estate that are also used to house various university activities.

RESIDENCE HALLS

Fitzgerald House (1962), gift of Mr. and Mrs. Harold A. Fitzgerald and self-liquidating funds

Anibal House (1962), gift of Mr. and Mrs. Benjamin H. Anibal, and self-liquidating funds

Pryale House (1963), gift of Mr. and Mrs. Harry M. Pryale and self-liquidating funds

Hill House (1964), gift of Mr. O. E. Hunt

Van Wagoner Hall (1965), self-liquidating funds

Vandenberg Hall (1966), self-liquidating funds, also houses faculty and administrative offices

Hamlin Hall (1968), self-liquidating funds



OTHER ACADEMIC UNITS AND PROGRAMS

This catalog is devoted to undergraduate degree offerings at Oakland University. The university has several other academic programs and units that are central to the university's mission. In order that the reader may have an understanding of the entire institution, brief descriptions of these units are given in this section.

GRADUATE STUDY

OFFICE OF THE DEAN

G. Philip Johnson, Dean
William H. Jones, Assistant Dean

Course offerings and programs of study beyond the baccalaureate level constitute a major Oakland University enterprise. Most schools and departments offer some form of graduate work, and in nearly all cases these offerings comprise courses and research sufficient for the satisfaction of requirements for advanced degrees. There are available at present one doctoral program and 18 master's programs. Additional programs at both degree levels are being developed.

In each of the programs the university seeks to provide its students with intellectual challenge and opportunity for scholarly and professional growth. Its substantial resources in faculty, research facilities, and support functions are all directed to these ends. A graduate program should not be solely a collection of courses and certainly should not be such if the courses are only casually related to each other. Rather, it should be a carefully structured combination of studies and research designed in the aggregate to serve specific needs of the student. Students share with their advisers responsibility for constructing programs of study manifesting this character. They can expect close attention from the faculty while planning their studies and while pursuing them. In turn they should ask of themselves wholehearted commitment to the program's demands.

Details of the programs and regulations of the Graduate Council, which governs graduate work, appear in the *Oakland University Graduate Catalog, Volumes I and II*. Copies of the catalog

are available from the Office of Graduate Study. Prospective students should in addition consult the school or department in which they wish to study.

GRADUATE DEGREE PROGRAMS

Doctor of Philosophy

Systems Engineering

Master of Arts

Area Studies

Clinical Psychology

Developmental Psychology

English

Guidance and Counseling

History

Mathematics

Master of Science

Biology

Chemistry

Engineering

Management

Physics

Master of Arts in Teaching

Early Childhood Education

Elementary Education

English

Mathematics

Reading

Special Education

SCHOOL OF PERFORMING ARTS

OFFICE OF THE DEAN

Jerry L. Dahlmann, Administrative Director

Alfred Ruscio, Artistic Director

Thomas F. Kirchner, Administrative Assistant

ASSOCIATE PROFESSOR: Alfred Ruscio

ADJUNCT PROFESSORS: Jerry L. Dahlmann, Terence Kilburn

LECTURERS: Alexander Gray, Catherine F. Kozubei, Elizabeth Orion, James R. Tompkins, Jessica Woods

ARTIST-TEACHERS: Istvan Danosi, Robert Gatzke, Worth Mallory

The School of Performing Arts, through its relationship with resident performing artists in the theatre and festival, offers two highly successful professional training programs. The Academy of Dramatic Art offers an intensive two-year action program. It selects many of its faculty from professionals associated with the resident company of the Meadow Brook Theatre. A high standard of performance is expected in all aspects of the training, and those who demonstrate the required excellence are eligible for the Academy's Diploma in Dramatic Art.

Summer institutes in the School of Performing Arts offer short-term workshops and master classes in music and dance. The concepts pioneered and developed by these summer programs exemplify Oakland's contributions to performing arts education.

The scope of the School of Performing Arts continues to broaden. The Academy's distinctive instructional capabilities have been augmented by University Courses expressly designed to introduce the theatre to students in the university's general education program. Plans are being developed to expand the School of Performing Arts to include undergraduate and graduate degree programs in art, dance, music, and theatre arts.

Academy of Dramatic Art

The Academy of Dramatic Art provides practical training in acting for students who intend to make their career in the professional theatre. Intensive training in voice and speech, movement, and acting techniques are coordinated to assure that the various elements of acting unite in an overall design for developing the actor's craft. The disciplines and experience of the resident professional actors and the diversified professional experience of other members of the faculty help to shape and sharpen the talents of academy students. The culmination of the training is the opportunity for senior students to refine professional acting techniques through public performances of classic and contemporary plays produced by the Academy's Studio Company.

A distinguished faculty is chosen from among professional actors and directors. Specialized classes in style and technique complement the normal curriculum and have been given by distinguished artists from the Tyrone Guthrie Theatre, Stratford Festival Theatre, and acting schools in North America. Many actors and directors of the Meadow Brook Theatre also give specialized classes to complement the basic academy training program.

Full professional training requires a minimum period of two years, and candidates must be prepared to remain as full-time students for that period of time. Those who complete 64 credits and who satisfactorily pass each semester's examinations are eligible for the Academy's Diploma of Dramatic Art. Outstanding students receive an Honors Diploma. Provided the candidate has a natural talent for acting, the minimum educational requirement for entry is a high school diploma or its equivalent. Those who successfully pass competitive entrance auditions are admitted to the academy.

The caliber of training, together with the stimulus of the close link with the resident professional company of the Meadow Brook Theatre, places graduates at an advantage in seeking professional employment. Outstanding graduates have been invited to join the resident company of the Meadow Brook Theatre. Many others are now members of leading professional repertory companies across the nation, as well as appearing on television, in motion pictures, and on the Broadway stage.

All communications concerning the professional actor training program and requests for information on applications for auditions should be directed to the Administrative Director of the Academy of Dramatic Art.

UNIVERSITY LIBRARY

OFFICE OF THE DEAN

George L. Gardiner, Dean
 Nancy S. Covert, Acting Associate Dean, Technical Services
 Robert G. Gaylor, Associate Dean, Public Services

PROFESSOR: George L. Gardiner.

ASSOCIATE PROFESSORS: Robert G. Gaylor, Thomas H. Lyons, Lois L. Reilly.

ASSISTANT PROFESSORS: Nancy S. Covert, Jennie B. Cross, Eileen E. Hitchingham, Melbourne Jordan, Janet A. Krompart, Mildred H. Merz, Richard L. Pettengill, Ann M. Pogany, Elizabeth A. Titus

INSTRUCTORS: Sylvia M. Csiffary, Daniel F. Ring, S. Rita Sparks.

VISITING LECTURER: Margaret S. McDonald

The faculty directs, staffs, and maintains the University Library and its collections of books and related materials. With the advice of members of the other organized faculties, the library faculty selects materials to be added to the library's collections and is responsible for the acquisition, preparation, and organization of these materials.

Faculty of the library hold appointments as public services or technical services librarians. The Division of Technical Services is a centralized unit responsible for acquiring, cataloging, and preparing books, periodicals, microforms, documents, and other kinds of library materials. The Division of Public Services offers a variety of direct services to the library's users.

The faculty in both library divisions are responsive to the educational thrusts of the university and are active participants in the academic enterprise. They provide classroom as well as one-to-

one instruction for students in the use of the library and assist them in mastering techniques for the retrieval of information from a variety of bibliographic sources.

Similarly, the library faculty provides assistance to teachers and scholars in a variety of ways, making every effort to secure for them the library materials needed to support programs of instruction and research.

Since the faculty of the library is also responsible for research outside of the immediate specialties of bibliographic support of current curricula and faculty research, members of the faculty are concerned to develop holdings in interdisciplinary and generalized works of reference and in other bibliographic source materials. Moreover, as a library constitutes a trust for the future, librarians search out, evaluate, and sometimes acquire collections of rare or out-of-print books, periodicals, and documents in order to round out the informational resources of the university both in and beyond areas of immediate curricular concern.

The library faculty is involved in continuing research in various areas of academic librarianship. As active members of state, regional, and national professional associations, they make persistent efforts to provide better services, develop collections of high quality, and increase the excellence of the university.

The Library

Oakland University's library collections are housed in Kresge Library and in the Performing Arts Library (Varner Hall) which contains a specialized collection of materials on the performance of music, theatre, and dance. The collections of the University Library now contain approximately 300,000 volumes, 250,000 units of microfilm, and 7,000 recordings on disc or tape—all in open stacks. The Matilda R. Wilson Memorial Collection of works on reference, amassed through gifts of money from the university's students, constitutes a large part of the collections and provides a substantial research facility. Other special collections include one of the largest collections in the midwest of underground newspapers, and the Hicks Collection of books by and about women.

The library offers many services to its users: the specialized Performing Arts Library; an audio-visual service center; a microform reading room; a documents department housing both Federal and State of Michigan documents; a science area in which are concentrated the monographs, indexes, periodicals, and abstracts that pertain to this broad subject field; a general reference department; a circulation department with a computerized

check-out system; and a serials department in charge of about 40,000 periodical volumes.

CONTINUING EDUCATION

OFFICE OF THE DEAN

Lowell R. Eklund, Dean

Harry B. Van Hook, Jr., Assistant Dean for Courses

There are five administrative units within the Division of Continuing Education: Conference Department, Continuum Center for Adult Counseling and Leadership Training, Course Department, Labor Education Service, and Meadow Brook Hall.

The multifaceted programs of the division are designed to help people perform more effectively in their roles as workers, parents, and citizens. The division continuously revises its offerings to meet the stated needs of adults whether these be personal or job-related. Its programs are available to all students, faculty, and staff, as well as the general public.

The Conference Department sponsors conferences, institutes, and seminars on a variety of subjects including early childhood education, creative writing, behavior modification, dance therapy, and academic games. Conferences during the academic year are generally one or two day programs, while the emphasis during the summer months is on residential conferences and institutes.

The Continuum Center offers both counseling services and leadership training opportunities to individuals and organizations. As a service organization, the center's purpose is to assist people of all ages in the meaningful evaluation and planning of their lives. The center is committed to the belief that people can exercise some control over, and assume responsibility for, directing the personal and career aspects of their own lives, and in that process, others can help. Many programs are designed to help people make the necessary decisions at turning points in their lives. The participation of those who want to work with others toward a fuller realization of their own potential is welcomed. The programs are not designed as a substitute for psychotherapy.

The Course Department offers evening nondegree diploma programs and courses in professional and cultural subjects at university content level. All programs and courses carry the nationally recognized Continuing Education Unit (CEU) which is of interest to persons who wish to maintain a file of their nonde-

gree learning experiences. Increasingly, the CEU is being taken into account by many employers and professional-associations as a means of assessing the personal and/or occupational growth of individuals. One CEU is the equivalent of ten classroom hours.

Diploma programs, a series of courses related to individual objectives, are offered in management, plastics technology, real estate, and for legal and medical office assistants. Independent study (correspondence) offerings include diploma programs in supervision, management, and marketing as well as preparatory courses for licensing examinations for real estate and CPA. In addition, the department conducts programs and courses designed specifically to meet the needs of business, industry, government, and social agencies.

The Labor Education Service provides residential institutes and daytime/evening courses in both on- and off-campus locations for union members.

Meadow Brook Hall, the university's cultural and conference center, is widely used both by the university and groups in the community. The hall offers a secluded setting for residential and daytime conferences, seminars, and workshops. The mansion, a remarkable revival of Tudor architecture, is open for public viewing and dining every Sunday afternoon. Group tours also can be arranged.



ACADEMIC POLICIES AND PROCEDURES

General Education

Oakland University requires all undergraduates in degree programs to enroll in a series of courses distributed so as to provide a broad intellectual experience in liberal education. Each school or college specifies its general education requirements within the framework of six field groups. The field groups, and the courses applicable to each, are:

a. Symbolic Systems

Computer and Information Science courses (CIS).

Linguistics courses (LIN and ALS), except for ALS 276, 335, and 376.

Mathematics courses (MTH, MOR, STA, MTE, APM), except for MTH 101.

Modern Languages and Literatures courses emphasizing grammar, composition, and conversation (ML, CHE, FRH, GRM, HBR, HIUR, IT, POR, SPN).

SCN 207.

GRK or LTN 114-115, 214-215; CLS 310. GRK or LTN 114 does not count unless 115 is also completed.

b. Letters

Classics courses (CLS, GRK, LTN), except for LTN or GRK 114-115, 214-215.

English courses (ENG).

History courses (HST).

Philosophy and Religion courses (PHL, REL).

Modern Languages and Literatures courses in literature, either in translation or in the foreign language. Other language courses satisfy the symbolic systems requirement.

c. Arts

Art courses (AH and SA).

Music courses (MUS).

Theatre arts courses (THA) and UC 045.

d. Social Science

Economics courses (ECN).

Political Science courses (PS).

Psychology courses (PSY).

Sociology and Anthropology courses (SOC, AN).

ED 244, 245.

ENV 151.

Speech Communication and Journalism courses (SCN and JRN), except for SCN 207 and 310.

e. Area Studies

AS 062, 063, 064, 066, 068, and 070.

f. Natural Science

Biology courses (BI0)

Chemistry courses (CHM).

Physics courses (PHY).

Environmental Studies courses (ENV), except for ENV 151.

Engineering courses (EGR), except for EGR 005, 108, 111, and 363.

Writing Proficiency

All Oakland University students must demonstrate proficiency in writing by passing an essay test prepared and graded by the Department of Learning Skills. Freshmen will have an opportunity to take the test before beginning their first semester. If a student passes the test no further course work in English composition will be required. Students not achieving the proficiency standard will be counseled to take certain English composition courses offered by the Department of Learning Skills prior to another attempt at the essay test.

Transfer students will be deemed to have met the writing proficiency standard upon presentation of two college-level courses (at least 6 credits) in English composition.

Course and Credit System

The unit of credit is the semester hour. One credit is equivalent to a total of three hours work per week including 50 minutes of scheduled instruction and the estimated time that an average student spends in outside preparation each week. The standard Oakland University course is 4 credits. Normally, a full academic load is 16 to 18 credits per semester. With his/her adviser's permission, a student who has completed 12 or more credits at Oakland may register for as many as 21 credits provided that his/her cumulative grade point average is at least 2.60. All other students may take more than 18 credits only as a result of a successful Petition of Exception.

Regulations Governing Courses

1. The credit-hour value of each course is the number in par-

entheses following the course title.

2. A course sequence joined by a hyphen (e.g., GRK 114-115) must be taken in the order indicated. The first course in such a sequence is regarded as a prerequisite to that following.
3. Course numbers separated by commas (e.g., HST 214, 215) indicate related courses, which may be taken in any order. Departmental or program requirements may govern the order in certain cases, however.
4. With the exception of University Courses and Area Studies courses, course numbers 000 to 099 are reserved for courses specially designed to enrich academic skills. Not more than 16 credits in such courses and in tutorial work may be presented toward graduation requirements. University Courses and courses numbered 100 to 299 are introductory or intermediate undergraduate courses. Courses numbered 300 to 499 are advanced courses primarily for undergraduates. Courses numbered 500 and above are primarily for graduate students.
5. The registrar reserves the right to cancel any course in which there is insufficient registration.
6. It is the student's responsibility to complete all prerequisites prior to registering for a course with such requirements. Departments may waive prerequisites in accordance with university policy.
7. Some courses are cross-listed between departments. In such cases, the description of the course is listed only in one department. The secondary listing in the other department simply notes that the course is identical with the course in the primary department.

Course Credit

The terms used in stating degree requirements mean either to establish credit in a course by earning a passing grade in the course, by passing a competency examination, or by receiving transfer credit from another institution. In certain circumstances a requirement may be formally waived by a successful Petition of Exception to the committee on instruction of the appropriate school or college.

Petition Of Exception

Any student may request a waiver or modification of specific academic requirements. Students may obtain a Petition of Exception form in the office of the dean of the student's school or college. When it has been completed, signed by a faculty adviser

in the student's major department, and returned to the office of the dean, it will be referred to the committee on instruction of the school or college. The student, the registrar, and the student's academic adviser or major department will receive a copy of the petition containing the action taken.

Course Competency

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

1. That they register for the course at registration with permission of the department 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 registration closes. A student may receive up to 60 semester hours of competency credit based upon nonclassroom experience. Ordinarily credit will not be permitted for a course when a student has acceptable credit for more advanced courses in the same area. The repeat course rule applies to the repeating of competency examinations.

Modified Major

Students taking certain majors may apply to their major departments for permission to modify the normal requirements for the major in order to suit individual programs. Written permission for specific modifications must be given by the department and filed by the student in the Office of the Registrar.

Change Of Courses

Courses may be dropped at any time during the term the student decides not to complete a course, in accordance with the grading policies described in the next section. The dropping of courses for which refund of fees is claimed must be processed on a drop-and-add form through the Office of the Registrar (see also Refund of Fees page 18).

An addition of courses or change of sections initiated by the student can be made after the end of the second week of classes.

Grading System

1. The basic grading system at Oakland is a 31-point system of numerical grades from 1.0 through 4.0, by tenths, along with the non-numerical grades W, WS, WN, I, P, S, and N.

2. The first two weeks of a term (one week in spring or summer sessions) are a free period for dropping and adding courses, a no-grade period.
3. The meanings of the non-numeric grades are as follows:
 - a. "W" is assigned by the registrar if a student withdraws officially from a course between the end of the no-grade period and the end of the refund period.
 - b. The registrar assigns a "W" in all courses if a student withdraws officially from the university at any time prior to the end of the term.
 - c. The instructor assigns a "WS" or "WN" in a course from which a student withdraws officially between the end of the refund period and one week before the beginning of the final examination period. "WS" is assigned if the student's performance at the time of withdrawal merits a grade of 2.0 or better; otherwise, a "WN" is assigned. To accomplish this assignment a student must obtain an appropriate form in the office of the department which offers the course from which the withdrawal is being made. The student takes the form to the instructor and has it completed. The student and the instructor each keep one copy of the completed form. The instructor records the grade on the final grade report. Only the student and the instructor are involved in the transaction.
 - d. The "I" grade is a temporary grade that may be given only in the last week of a course in which a student is unable to complete the required work because of severe hardship beyond the control of the student. The instructor does not need approval to assign an "I." The work must be completed within the first four weeks of the next term in which a student registers. Extensions are permitted on request of the instructor to the dean of the school or college in which the course is offered. The "I" is changed to an "N" at the end of the four week period if the work is not completed and an extension is not requested and approved.
 - e. The "P" grade is a temporary grade that may be given only in a course that cannot be completed in one semester. Prior approval must be obtained to assign a "P" grade in a particular course. The "P" grade is given only for 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" is changed to an "N."
 - f. The "N" grade is assigned by the instructor in any course from which a student does not officially withdraw prior to one week before the final examination period in the

term in which the student has registered for the course and for which the student does not receive credit. It is understood to mean that the student has completed the course unsuccessfully.

- g. The grade of "S" is given in certain selected courses and is meant to imply 2.0 or better. Courses in which S/N grading is used must be approved by the appropriate Committee on Instruction.
4. If none of the above applies, the course is considered to have been completed successfully, and the instructor assigns a numerical grade from 1.0 to 4.0, inclusive, by tenths. The Senate has approved the following conversion scheme for some external purposes:
- | | |
|-----------|---|
| 3.6 - 4.0 | A |
| 3.0 - 3.5 | B |
| 2.0 - 2.9 | C |
| 1.0 - 1.9 | D |
5. All grades, other than the "N" grade, including numerical grades and the non-numeric grades S, W, WS, WN, I, and P appear on a student's transcript. However, only numerical grades are used in the determination of the student's grade point average, which is computed accurately to two decimal places.
6. The university has no rules on auditing courses. Students may audit any course with the permission of the instructor. Students may also repeat courses up to two times with the last grade earned in the course (excluding "N" grades) being used in the computation of the grade point average.

Academic Honors

At the end of each semester, students who have achieved a semester grade point average of 3.00 or higher in 12 hours of university credits will be recognized for their high academic achievement if they have received no "N" grades during the semester. Students with grade point averages of 3.00 to 3.59 will be sent commendation letters. Students with grade point averages of 3.60 to 4.00 will be sent semester honors letters. Both the commendation and semester honors awards will be recorded on the student's transcript.

University Honors

The three levels of University Honors, Cum Laude, Magna Cum Laude, and Summa Cum Laude, may be awarded with the conferral of the baccalaureate with the following cumulative grade

point averages:

3.60 to 3.74	cum laude
3.75 to 3.89	magna cum laude
3.90 to 4.00	summa cum laude

The awarding of the degree with University Honors will be based only on Oakland University credits, and the student must earn a minimum of 62 credit hours at Oakland to become eligible for University Honors.

Academic Probation and Dismissal

A student who does not make satisfactory progress toward a degree either by failing or withdrawing from courses may be considered for dismissal by the Academic Standing and Honors Committee. A statement of the academic probation and dismissal policy is available from the Student Services office.

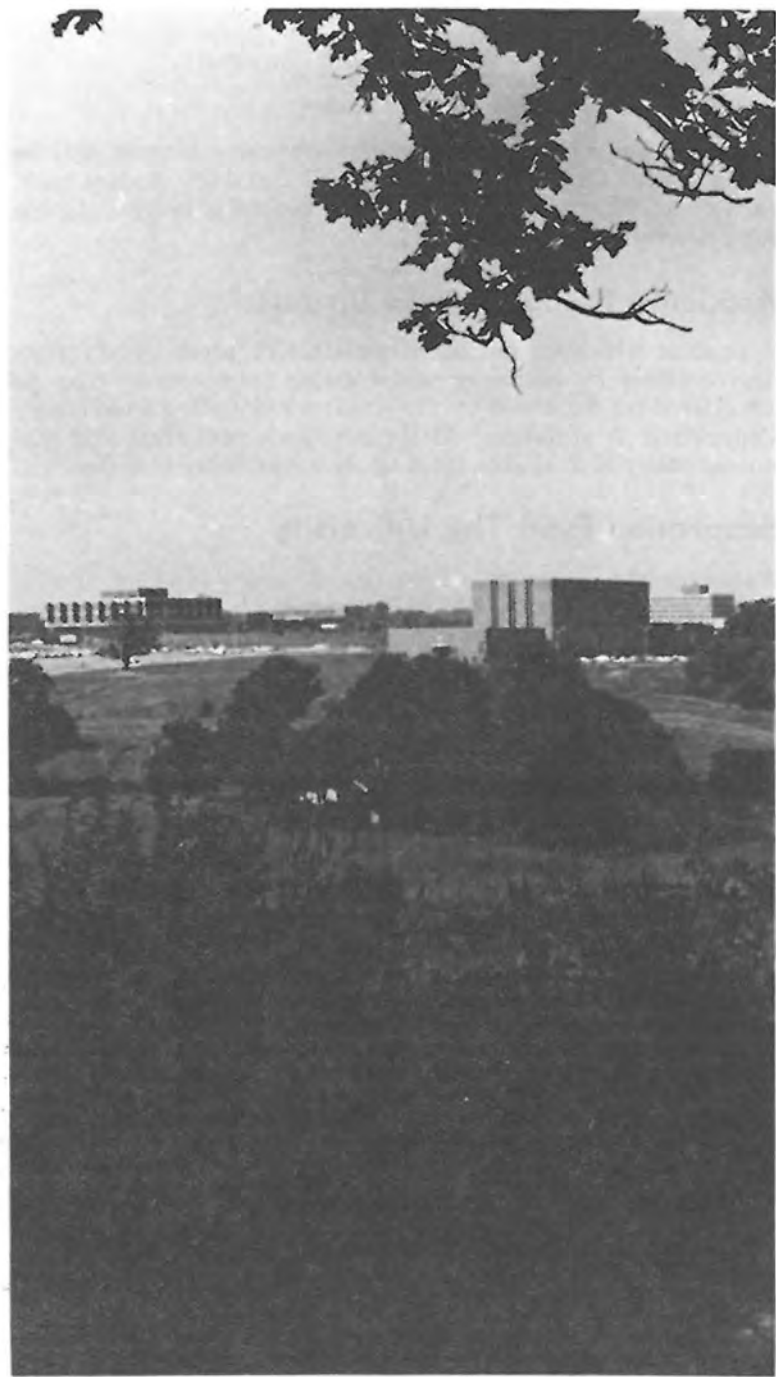
Separation From The University

A student who is separated from the university is no longer officially enrolled and does not have the privileges of a registered student. A student who has been separated from the university may apply for readmission through the Office of Student Services unless he/she has been informed that he/she will not be considered for readmission.

Withdrawal

A student withdrawing from the university must do so through the Office of Student Services. The withdrawal must be presented to the registrar for recording and authorization of any possible refund. All students who withdraw must be readmitted in order to register for classes.

When a student withdraws from the university, a grade of "W" will be assigned in all courses.



COLLEGE OF ARTS & SCIENCES

OFFICE OF THE DEAN

Reuben Torch, Dean

Robert E. Simmons, Associate Dean for Instruction

The College of Arts and Sciences offers instruction leading to the degrees of Bachelor of Arts and Bachelor of Science and to the degrees of Master of Arts and Master of Science. Jointly with the School of Education it offers instruction leading to the degree of Master of Arts in Teaching.

REQUIREMENTS FOR THE DEGREES OF BACHELOR OF ARTS AND BACHELOR OF SCIENCE

I. General Requirements

A student must:

- A. Have completed 124 credits. Bachelor of Science degrees in Health Sciences programs (Environmental Health, Medical Technology, and Medical Physics) require completion of 128 credits.
- B. Have completed at least 32 of these credits at Oakland University, of which at least 16 credits must be in his/her elected major.
- C. Have taken the last 8 credits needed to complete baccalaureate requirements in residence at Oakland University.
- D. Have a cumulative grade-point average of at least 2.00.
- E. Be in substantial compliance with all legal curricular requirements.

II. Requirement of Proficiency Certificate in English Composition

The student must satisfy this requirement as described on page 38.

III. The General Education Requirement

The student must complete 32 credits (or more if specified by his/her chosen major) in general education. Each student must complete a minimum of 3 credits in at least four of the five fields outside the major. No more than 12 credits in any one field will be counted toward fulfilling this requirement. For an explanation of the fields and the courses which satisfy this general education requirement see page 37.

The general education requirement may, alternatively, be satisfied by completion of the New-Charter College program.

IV. Requirement of a Major or an Independent Concentration

The student must fulfill all requirements of his/her elected major as described in the departmental entries. The student may also satisfy this requirement by completing an Independent Concentration as described below. A cumulative grade-point average of 2.00 in the major or independent concentration is required for graduation.

A. The Major

The majors offered in the College of Arts and Sciences are listed below. For specific requirements, see the department entries.

- | | |
|---|---|
| 1. Art History, page 49 | 17. Medical Technology,
page 199 |
| 2. Studio Art, page 50 | 18. Medical Physics, page 198 |
| 3. Biology, page 57 | 19. Russian, page 114 |
| 4. Chemistry, page 66 | 20. Russian Language and
Civilization, page 115 |
| 5. Chinese Language and
Civilization, page 115 | 21. Spanish, page 114 |
| 6. Classical Civilization,
page 75 | 22. Latin American Lan-
guages and Civilization,
page 115 |
| 7. Classical Languages,
page 74 | 23. Music, page 133 |
| 8. Latin, page 75 | 24. Philosophy, page 146 |
| 9. Economics, page 216 | 25. Physics, page 152 |
| 10. English, page 80 | 25. Political Science, page 158 |
| 11. Environmental Health,
page 196 | 27. Psychology, page 164 |
| 12. History, page 88 | 28. Sociology, page 170 |
| 13. Linguistics, page 98 | 29. Anthropology, page 170 |
| 14. Mathematics, page 104 | 30. Sociology and Anthropol-
ogy, page 170 |
| 15. French, page 114 | 31. Speech Communication,
page 179 |
| 16. German, page 114 | |

The College of Arts and Sciences offers a variety of programs for secondary teaching majors. For a list of departments offering these majors, see page 240. Requirements for these majors are found under the department entries.

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

B. Independent Concentration

An independent concentration of courses may be offered in lieu of a department major in partial fulfillment of the degree requirements. The regulations governing such concentrations are as follows:

1. The credits in an independent concentration must be not less than 40 nor more than 60, such credits to be in courses above the introductory level.
2. These credits must be in an organized program of study exhibiting both depth and coherence.
3. This program must be developed in consultation with an adviser authorized for the purpose by the college.
4. The Committee on Instruction of the College of Arts and Sciences will determine whether such programs will be accepted as satisfying the requirement.
5. Students offering an independent concentration must fulfill the residence, English composition proficiency, and general education requirements.
6. Students will be admitted to the independent concentration program only after completion of 32 credits; transfer students with 32 or more credits shall be admitted to the program with their first semester as a probationary period.

The faculty members authorized to advise students about independent concentrations are: F. J. Clatworthy (Education and New-Charter College), W. D. Jaymes (French), S. R. Miller (Chemistry), and J. R. Ozinga (Political Science).

SPECIAL INSTRUCTIONAL PROGRAMS OF THE COLLEGE

The Minor

Minors are not required by the College of Arts and Sciences for baccalaureate programs. They are required, however, of pro-

spective secondary school teachers seeking certification by the Department of Education of the State of Michigan. For a list of the departments which offer secondary teaching minors see page 241. The requirements for these minors can be found under the departmental entries.

Interdepartmental Programs and Concentrations

The college offers a number of interdepartmental programs and concentrations which the student may choose to pursue in addition to a department major. These concentrations are described in department entries, in the Area Studies entry on page 187, or in the interdepartmental programs entries on page 201.

DEPARTMENT OF ART AND ART HISTORY

CHAIRPERSON: Carl F. Barnes, Jr.

DIRECTOR OF STUDIO ART: P. Michael Brakke

PROFESSORS: Carl F. Barnes, Jr. (Art History and Archaeology), John B. Cameron (Art History)

ASSOCIATE PROFESSORS: John L. Beardman (Studio Art), P. Michael Brakke (Studio Art)

ASSISTANT PROFESSORS: Donald D. Keyes (Art History), Cecelia F. Klein (Art History), Alvern A. Lostetter, Jr. (Studio Art)

This department offers programs of study leading to the Bachelor of Arts with majors in Art History and Studio Art. The department also offers a secondary teaching minor in Art. While the programs are not career-oriented as such, majors receive preparation for graduate study in art history or in studio art which may lead to a profession in archaeology, college teaching, museum curatorship, fine arts conservation, editorial work with art publishing firms, or to the independent practice of film-making, multi-media, painting, printmaking, or sculpture.

The art history curriculum is structured to provide majors and nonmajors with both a broad introduction to and more thorough study of the accomplishments in the visual arts of various cultures throughout history. The art history program is further strengthened by the use of visiting lecturers in special fields, by group visits to the Detroit Institute of Arts and to other public and private art collections in the area, and through the study of special exhibitions of art historical interest in the Meadow Brook Art Gallery. A special aspect of the art history program is The Institute in Tuscan Archaeology, an elective program offered in alternate academic years. Institute classes are held in the spring session on the university campus and in the summer session at the Castello di Spannocchia, headquarters of The Etruscan Foundation Inc., near Siena, Italy. American and Italian specialists in archaeology, architecture, art history, conservation, and museology staff this program.

The studio art curriculum is based on the premise that works of art are visual records of ideas and that technical skills can be the means by which these ideas are expressed. The core courses are

taught primarily in terms of visual ideas with students being encouraged to work with as wide a variety of materials as their ideas dictate. The skills, information, and techniques courses provide information about and proficiency in a variety of processes. An exchange of ideas between artists is encouraged through group criticisms and group discussions, presentations by faculty members, and group projects in weekly laboratory meetings. A number of artists of various backgrounds participate in the program on an adjunct basis by teaching regularly scheduled courses, talking about their work, participating in group discussions and in individual student criticisms, and exhibiting their work in the Meadow Brook Art Gallery. The studio art section also sponsors an annual exhibition in the Meadow Brook Art Gallery of the best works by students enrolled in studio art classes.

Requirements for the Liberal Arts Major in Art History

Forty credits in art history are required, including AH 100, AH 101, and AH 490. One course must be taken from each of the following groupings:

Non-Western

AH 300, AH 301, AH 305, AH 306, AH 307, AH 308

Ancient-Medieval

AH 312, AH 314, AH 320, AH 322, AH 326

Renaissance-Baroque

AH 330, AH 340

Modern-American

AH 350, AH 363, AH 364, AH 365, AH 366

Required cognates for the art history major are SA 100 and any other studio art course except SA 158.

There is no language requirement for the Art History major, but majors who anticipate doing graduate work in art history are advised that most graduate programs require proof of reading competency in one or more foreign languages, generally German and/or French.

Requirements for the Liberal Arts Major in Studio Art

Forty credits in studio art are required, including SA 100, SA 101, SA 200, SA 201, SA 300, SA 301, SA 400, and SA 401. Required cognates for the studio art major are: AH 100, AH 101, SA 158 or AH 366, and 4 additional elective credits of art history.

Transfer students are accepted as majors and are assigned an appropriate level in the program on the basis of a portfolio.

Requirements for the Secondary Teaching Minor in Art

Required for the minor are 20 credits in art, including AH 100, AH 101, and SA 100. A secondary teacher major in art is not offered. For more detailed information, consult the School of Education.

ART HISTORY COURSES

AH 100 Introduction to European Art I (4)

History and analysis of the visual arts of western Europe from prehistoric times until the Renaissance, ca. A.D. 1400.

AH 101 Introduction to European Art II (4)

History and analysis of the visual arts of western Europe from the Renaissance, ca. A.D. 1400, until the present.

AH 102 Introduction to African, Oceanic, and American Indian Art (4)

History and analysis of the visual arts of the indigenous peoples of Africa, the Pacific basin, and the Americas.

AH 104 Introduction to Asian Art (4)

History and analysis of the visual arts of Asia, especially those of China, India, and Japan.

AH 208 Afro-American Art (4)

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

AH 260 History of Photography (4)

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

AH 290 Readings in Art History (2)

Specific reading projects in art history, art criticism, connoisseurship, and conservation intended for but not limited to the non-art history major.

Prerequisite: Permission of instructor.

AH 300 Chinese Art (4)

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

Prerequisite: AH 104.

AH 301 Japanese Art (4)

The development of architecture, sculpture, and painting in Japan from the 5th to the 19th century A.D.

Prerequisite: AH 104.

AH 305 African Art (4)

The arts of the indigenous peoples of West, Central, and East Africa.

Prerequisite: AH 102.

AH 306 Oceanic Art (4)

The arts of the indigenous peoples of the Pacific basin.
Prerequisite: AH 102.

AH 307 Pre-Columbian Art (4)

The arts of the Indians of Mexico, Central America, and South America prior to the Spanish Conquest.
Prerequisite: AH 102.

AH 308 North American Indian Art (4)

The arts of the Eskimo, the Northwest Coast, United States, and Canadian Indians.
Prerequisite: AH 102.

AH 312 Greek Art (4)

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

AH 314 Roman Art (4)

The development of architecture, sculpture, and painting in Etruria and in the Roman Republic and Empire from ca. 600 B.C. until the relocation of the capital at Constantinople in A.D. 330.
Prerequisite: AH 100.

AH 320 Byzantine Art (4)

The development of architecture, sculpture, and painting in the Eastern Roman Empire from A.D. 330 until the Turkish conquest of Constantinople in A.D. 1453.
Prerequisite: AH 100.

AH 322 Early Medieval and Romanesque Art (4)

The development of architecture, sculpture, and painting in western Europe from A.D. 330 until through the apex of Christian monasticism, ca. A.D. 1150.
Prerequisite: AH 100.

AH 326 Gothic Art (4)

The development of architecture, sculpture, and painting in western Europe from ca. A.D. 1150 through the period of the crusades and medieval urbanism, ca. A.D. 1400.
Prerequisite: AH 100.

AH 330 Renaissance Art (4)

The development of architecture, sculpture, and painting in western Europe during the Renaissance and Reformation from A.D. 1400 to A.D. 1600.
Prerequisite: AH 101.

AH 340 Baroque Art (4)

The development of architecture, sculpture, and painting in western Europe and colonial South America during the period of absolute monarchy and the Counter Reformation from A.D. 1600 to A.D. 1800.
Prerequisite: AH 101.

AH 350 American Art (4)

The development of architecture, sculpture, and painting in the United States from the American Revolution, A.D. 1776, until World War I, A.D. 1914.
Prerequisite: AH 101.

AH 363 Modern Architecture and Urban Design (4)

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

Prerequisite: AH 101.

AH 364 Modern Art I (4)

The development of sculpture and painting in Europe from the French Revolution, A.D. 1789, until the last Impressionism exhibition, A.D. 1886.

Prerequisite: AH 101.

AH 365 Modern Art II (4)

The development of sculpture and painting in Europe and in the United States from the last Impressionism exhibition, A.D. 1886, until World War II, A.D. 1940.

Prerequisite: AH 101.

AH 366 Modern Art III (4)

The development of sculpture and painting and related media in Europe and in the United States from World War II, A.D. 1940, until the present.

Prerequisite: AH 101.

AH 415 Methods of Art Historical Archaeology (4)

The history and methodology of archaeology as a tool of art historical investigation. This course includes classroom lectures and field work demonstration; it is taught only in connection with the Institute in Tuscan Archaeology.

Prerequisite: AH 100.

AH 416 Tuscan Archaeology (4)

Practice in the excavation and conservation of ancient and medieval sites in Tuscany. This course is offered only in Italy in the summer session as a part of the Institute in Tuscan Archaeology.

Prerequisite: Permission of instructor.

AH 417 Museology and Conservation (4)

Practice in the conservation and restoration of artifacts and in the cataloging of archaeological finds. This course is offered only in Italy in the summer session as a part of the Institute in Tuscan Archaeology.

Prerequisite: Permission of instructor.

Corequisite: AH 416.

AH 490 Problems in Art History (4 or 8)

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

Prerequisite: 12 credits of art history and permission of instructor.

STUDIO ART COURSES**Core Courses****SA 100 Introduction to Two-Dimensional Media (5)**

Introduction to a wide range of ideas and attitudes prevalent in contemporary art and the exploration of the numerous possibilities they present for the making of art rather than on any specific technical training. Emphasis is on conceptualization.

SA 101 Introduction to Three-Dimensional Media (5)

Introduction to a wide range of ideas and attitudes prevalent in contemporary art and the exploration of the numerous possibilities they present for the making of art rather than on any specific technical training. Emphasis is on conceptualization.

SA 200 Basic Studio I (5)

Exploration of various elements of composition.
Prerequisite: SA 101.

SA 201 Basic Studio II (5)

Continuation of SA 200.
Prerequisite: SA 200.

SA 285 Visiting Artist Seminar I (2)

Participation in group discussion and lecture portions of SA 485.
Prerequisite: Selection by the studio art faculty upon completion of SA 101.

SA 300 Intermediate Studio I (5)

Exploration of specific elements of composition.
Prerequisite: SA 201.

SA 301 Intermediate Studio II (5)

Continuation of SA 300. Portfolio will be judged at end of the semester.
Prerequisite: SA 300.

SA 400 Advanced Studio I (5)

Exploration of one or two specific media.
Prerequisite: SA 301.

SA 401 Advanced Studio II (5)

Continuation of SA 400. Portfolio will be judged at the end of the semester.
Prerequisite: SA 400.

SA 485 Visiting Artist Seminar II (5)

A seminar in which nationally recognized visiting artists discuss currently significant issues in art, talk about their own works, and offer critiques of student work. May be taken in junior year for a total of 10 credits and senior year for a total of 10 credits.
Prerequisite: SA 201 or permission of director of studio art.

SA 490 Special Problems in Studio Art: Independent Studies (5)

Independent investigation of specific problems in the visual arts including their relationships with other disciplines. May be taken in different semesters for a total of 10 credits.
Prerequisite: SA 301.

Skills Courses

SA 107 Drawing Skills I (3)

Introduction to the tools and methods of drawing as a means to more accurate observation of the physical world and to more clearly developing visual ideas. Emphasis is placed on skill development. May be taken in different semesters for a total of 6 credits.

SA 108 Figure Drawing Skills I (3)

Traditional approaches to figure drawing, including anatomy, line, and shading as a means to depiction of the figure in illusionistic space. Emphasis is placed on skill development. May be taken in different semesters for a total of 6 credits. Prerequisite: SA 107.

SA 109 Color Skills (3)

Study and analysis of the properties, theory, and use of color as a specific compositional element. Emphasis is placed on skill development. Prerequisite: SA 107.

SA 307 Drawing Skills II (3)

Continuation of SA 107. Emphasis is on the translation of visual ideas from drawing into other media. May be taken in different semesters for a total of 6 credits. Prerequisite: SA 107 and SA 201.

SA 308 Figure Drawing Skills II (3)

Continuation of SA 108 with emphasis on attitudes about and problems relevant to contemporary methods of depiction of the figure. May be taken in different semesters for a total of 6 credits. Prerequisite: SA 108 and SA 201.

Information Courses**SA 150 Introduction to Visual Media (4)**

Study of the relationship of film and television to art, literature, and communication theory. Team taught by Studio Art, English, and Speech Communication. Identical with ENG 150 and SCN 150.

SA 155 Film as a Visual Art (4)

Introduction to the cinematic expression of visual ideas in films from the silents to the present in relation to and/or as contrasted with simultaneously present narrative structures. Lecture course.

SA 158 Art Since 1945 (4)

Critical analysis of the principal visual and thematic ideas in the visual arts of the United States and Europe since 1945. Lecture course.

Techniques Courses**SA 211 Printmaking I (5)**

Basic techniques and visual ideas inherent in the medium. May be taken in different semesters for a total of 10 credits.

SA 214 Sculpture I (5)

Basic techniques and visual ideas using a variety of materials and processes. May be taken in different semesters for a total of 10 credits.

SA 218 Figurative Painting I (5)

Basic techniques and visual ideas related to perspective and contemporary painting using figure, landscape, and still life. May be taken in different semesters for a total of 10 credits.

Prerequisite: SA 107 or SA 108.

SA 220 Ceramics I (5)

Basic techniques and ideas related to handbuilt (non-wheel) ceramics. May be taken in different semesters for a total of 10 credits.

SA 230 Photography I (5)

Basic techniques and ideas which relate to black-and-white darkroom and shooting processes. Emphasis is on the photograph as a visual art. May be taken in different semesters for a total of 10 credits.

SA 235 Cinematography I (5)

Basic techniques and visual ideas inherent in the medium. Emphasis is on the film as a visual art and on the production of visual ideas in various possible time/space continua in Super 8mm and 16mm formats. May be taken in different semesters for a total of 10 credits.

Prerequisite: SA 150 or SA 155 or SA 240 and SCN 172.

SA 240 Video I (5)

Basic techniques and visual ideas inherent in the medium. Emphasis is on video as a visual art, on "conceptual" or "performance" ideas and on the exploration of unique time/space characteristics of the medium. May be taken in different semesters for a total of 10 credits.

Prerequisite: SA 150 or SA 155 and SCN 172.

SA 311 Printmaking II (5)

Continuation of SA 211. May be taken in different semesters for a total of 10 credits.

Prerequisite: SA 211 and SA 201.

SA 314 Sculpture II (5)

Continuation of SA 214. May be taken in different semesters for 10 credits.

Prerequisite: SA 214 and SA 201.

SA 318 Figurative Painting II (5)

Continuation of SA 218. May be taken in different semesters for a total of 10 credits.

Prerequisite: SA 218 and SA 201.

SA 345 Media Workshop (5)

Investigations of a variety of contemporary media, either singly or in combination as relevant to visual/art ideas. These have included audio tape, video tape, film, lasers, bio-feedback, and computer-generated/manifested images/sequences. May be taken in different semesters for a total of 10 credits.

Prerequisite: SA 201 and SA 235 or SA 240.

DEPARTMENT OF BIOLOGICAL SCIENCES

CHAIRPERSON: Nalin J. Unakar

PROFESSORS: Francis M. Butterworth, William C. Forbes, V. Everett Kinsey, V. N. Reddy, Reuben Torch, Walter L. Wilson, Nalin J. Unakar

ASSOCIATE PROFESSORS: John D. Cawlishaw, Moon J. Pak, John R. Reddan, Michael V. Riley, Arun K. Roy

ASSISTANT PROFESSORS: Thomas B. Friedman, Esther M. Goudsmit, Egbert W. Henry, R. Douglas Hunter, Paul A. Ketchum, Charles B. Lindemann, Brian P. Livermore, John T. Romeo, Barry S. Winkler

ADJUNCT PROFESSOR: Clifford V. Harding

ADJUNCT ASSOCIATE PROFESSORS: Philip T. Clampitt, James R. Wells

VISITING ASSISTANT PROFESSOR: Mary Etta Hight

The Department of Biological Sciences offers programs of study leading to the degrees of Bachelor of Arts, Bachelor of Science, and Master of Science. The undergraduate programs prepare the student for graduate studies in the life sciences, laboratory and research work in industries concerned with biological materials, professional careers in medicine, dentistry, nursing or other allied health areas, or science teaching in junior and senior high schools. This liberal arts program in biology is particularly well suited to the needs of the pre-medical student.

The Department of Biological Sciences offers a diversified selection of courses with its main strength being in cell biology, but also with courses and research programs in biochemistry, physiology, morphology, genetics, botany, ecology, aquatic biology, invertebrate zoology, developmental biology, microbiology, plant physiology, and evolutionary biology. The student selects courses that suit his/her goals and interests and also has the opportunity to become involved in an undergraduate research program. Since modern biology requires physiochemical insight, training in chemistry, physics, and mathematics is also required.

Requirements for the Bachelor of Science Degree With a Major in Biology

Forty credits in Biology (from BIO 111 and above) are required, including at least seven lecture courses. Corresponding lecture and lab courses should normally be taken simultaneously. In addition, two years of chemistry (CHM 114, 115, 117, 118, 203, 204, 206, and 207), mathematics through integral calculus (MTH 155), and a one-year calculus-requiring general physics course and lab (PHY 151, 152 and 158) are required. Finally, in addition to the formal course requirements, the student must complete one of the following three alternatives: a senior paper based upon research performed under BIO 490, a senior paper based upon a literature search on a research-oriented topic taken under a BIO 405, or a comprehensive exam, testing breadth of knowledge in biology, and ability to express oneself in clear, scientific prose.

Requirements for the Bachelor of Arts Degree With a Major in Biology

Forty credits in biology (from BIO 111 and above) are required, including at least seven lecture courses. Corresponding lecture and lab courses should normally be taken simultaneously. In addition, 15 credits of chemistry (CHM 114, 115, 117, 118, 203, and 206), 10 credits of physics (two semesters of general physics and lab), and at least 8 credits of mathematics (MTH 123, 124, or MTH 154, 155) are required. The choice of chemistry, math, and physics should be made with care. Students planning to enter graduate or professional school should plan to take courses beyond the minimum requirements, such as CHM 204, 207, MTH 154, 155 (instead of 123, 124), and PHY 151, 152 (instead of PHY 101, 102). In addition, a lack of laboratories or of 300 and 400 level biology courses may seriously weaken a student's chance to enter graduate school.

Requirements for the Secondary Teaching Major in Biology

Thirty-five credits in biology (from BIO 111 and above) are required including at least six lecture courses. One year of general chemistry and associated labs (CHM 114, 115, 117, 118), two semesters of mathematics (MTH 123, 124) and the following edu-

cation courses: ED 244, 245, 428, and 455, are required. Minors in chemistry or physics, or a group minor in chemistry and physics (as listed under requirements for the teaching minor in science, page 212) are recommended.

Requirements for the Secondary Teaching Minor in Biology

Twenty credits in biology (from BIO 111 and above) are required.

COURSE OFFERINGS

The following courses are open to all students and are not counted toward the biology major or minor requirements. They may be used to satisfy a natural science Field Group Distribution by nonscience majors.

BIO 104 Biology of the Human (4)

The biology of man. Cells, tissues, organs, conduction, contraction, circulation of blood and lymph and breathing, will be discussed. Offered fall and winter semesters.

BIO 105 Biology of the Human (4)

Digestion, excretion, the endocrine system, and reproduction will be discussed. Offered fall and winter semesters.

Prerequisite: BIO 104.

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

BIO 111 Biology (4)

Subjects covered this term are at the level of molecular and cell biology: cell ultrastructure, enzymology, metabolism, genetics, cell division, and chemical embryology. Emphasis is placed on several basic biological concepts, facts upon which these concepts are based, and the directions which present research are taking. A year of high school chemistry is strongly recommended. BIO 113 may be taken before BIO 111. Offered fall semester.

BIO 112 Biology Laboratory (1)

To accompany BIO 111.

BIO 113 Biology (4)

Designed to complement BIO 111 by taking an organismic approach to biology. The structure and functions of plants and animals will be presented on an introductory level and will include: nutrient acquisition, gas exchange, internal transport, excretion, chemical and nervous control, reproduction, and behavior. A section on ecology and evolution will be followed by a synoptic view of the major phyla of plants and animals. Offered winter semester.

BIO 114 Biology Laboratory (1)

To accompany BIO 113.

BIO 121 Introductory Microbiology (4)

A survey course emphasizing the relationship between microorganisms and

man. The topics covered will include microbial structure and function; nutrition, growth, and genetic systems in microorganisms; host-parasite relationships; basic principles of immunology; antimicrobial agents; microorganisms and the environment. Classification of bacteria, algae, slime molds, and protozoa.

BIO 201 Human Anatomy and Physiology I (4)

A detailed study of general physiological principles and mechanisms. Emphasis will be focused on the functional anatomy and normal physiology of the nervous, locomotor, and cardiovascular systems.

Prerequisite: BIO 111.

BIO 202 Human Anatomy and Physiology Laboratory I (1)

To accompany BIO 201.

BIO 203 Human Anatomy and Physiology II (4)

A continuation of BIO 201 with emphasis on the respiratory, excretory, gastrointestinal, and reproductive systems.

Prerequisite: BIO 201.

BIO 204 Human Anatomy and Physiology Laboratory II (1)

To accompany BIO 203.

BIO 221 Physiology (4)

A detailed study of general physiological principles. Primary emphasis will be focused on the following topics: characterization of the internal environment, bio-energetics, transport of material across the cell membrane, osmoregulation, respiration, conduction, contraction, and circulation. Offered fall, winter, and spring semesters.

Prerequisite: BIO 113.

BIO 222 Anatomy and Physiology Laboratory (1)

A detailed study of vertebrate anatomy and physiology. To accompany BIO 221.

BIO 223 Histology (4)

The microscopic anatomy and histochemistry of vertebrate tissues and organs in relation to tissue function.

Prerequisite: BIO 113.

BIO 224 Histology Laboratory (2)

To accompany BIO 223.

BIO 225 Elementary Biophysics and Cellular Biochemistry (4)

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

Prerequisite: One year of inorganic chemistry.

BIO 226 Elementary Biophysics and Cellular Biochemistry Laboratory (1)

To accompany BIO 225.

BIO 237 Botany (4)

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. Offered fall semester.

Prerequisite: BIO 113.

BIO 238 Botany Laboratory (1)

To accompany BIO 237.

BIO 239 Ecology and Man (2)

The ethical, social, and technical implications of current ecological problems will be explored through readings and discussions. Topics covered will include: human population growth, world food supplies, energy resources, pollution, urban development, and land use. Offered winter semester.

Prerequisite: Sophomore standing and one lab science course.

BIO 241 Plant Morphology (4)

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. Offered winter semester.

Prerequisite: BIO 113.

BIO 242 Plant Morphology Laboratory (1)

To accompany BIO 241.

BIO 243 Plant Physiology (4)

Basic principles of the major physiological processes of plants. Emphasis is placed on hormonal relationships, inorganic nutrition, water relations, metabolism, photosynthesis, and tropisms. The importance of data obtained from the use of specialized plant research techniques — electron microscopy, spectrophotometry, ultracentrifugation, and gaseous treatments — will constitute a significant input to the content of the respective physiological subject areas.

Prerequisite: BIO 113 and permission of instructor.

BIO 244 Plant Physiology Laboratory (1)

To accompany BIO 243.

BIO 247 Invertebrate Zoology (4)

Comparative study of major invertebrate groups, with particular reference to their evolution. Includes laboratory experience. Offered winter semester.

Prerequisite: BIO 113.

BIO 248 Invertebrate Zoology Laboratory (1)

To accompany BIO 247.

BIO 249 Endocrinology (4)

An integrated study of the vertebrate endocrine systems with emphasis on their interrelationship, control, and mechanism of action. Offered winter semester.

Prerequisite: BIO 225 or 221.

BIO 250 Endocrinology Laboratory (2)

To accompany BIO 249. Individual research projects.

Prerequisite: Permission of instructor.

BIO 301 Ecology (5)

Basic principles of environmental biology, illustrated through field and laboratory study and with applications to man. Offered fall semester.

Prerequisite: BIO 113.

BIO 303 Field Biology (4)

An ecologic and taxonomic study of the flora and fauna of Oakland University's setting. Soil, climatic, and biological factors will be recognized. Aims include appreciation of a variety of habitats, competency in use of illustrated handbooks and keys, and skills in collecting, preserving, and identifying.

Prerequisite: BIO 113 and 114.

BIO 309 Parasitology (4)

A survey of parasitic relationships; taxonomy and anatomy of involved organisms, life cycles, nutrition, pathology, immunology, and preventive methods. Opportunity for individual projects. Offered fall and winter semesters.

BIO 310 Parasitology Laboratory (1)

To accompany BIO 309.

Corequisite: BIO 309.

BIO 323 Developmental Biology (4)

The principles of embryology and related topics. A consideration of events in the progressive development of the egg into the adult organism. The physiological aspects of morphogenesis, differentiation, growth, and regeneration will be included. Offered winter semester.

Prerequisite: BIO 113 and 114.

Corequisite: BIO 324.

BIO 324 Developmental Biology Laboratory (1)

To accompany BIO 323.

Corequisite: BIO 323.

BIO 331 Advanced Microbiology (4)

A discussion of the classification, morphology, and physiology of microorganisms. This class is directly correlated with BIO 332 which is a corequisite.

Prerequisite: BIO 281 and CHM 203.

BIO 332 Advanced Microbiology Laboratory (2)

Selective enrichment, isolation, and characterization of microorganisms from natural sources. Must be taken with BIO 331.

Prerequisite: BIO 282.

BIO 341 Genetics (4)

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

Prerequisite: BIO 111. BIO 225 recommended.

BIO 342 Genetics Laboratory (1)

A series of short experiments to demonstrate basic genetic principles to accompany BIO 341.

BIO 343 Aquatic Biology (4)

A general study of energy flow and biomass production up the trophic series, including energy transfer and limiting factors at each level. The finite nature of aquatic resources and their exploitation in relation to the future protein requirements of man will be explained and examined. Offered fall semester.

Prerequisite: BIO 111, 113, and junior standing.

BIO 345 Experimental Genetics (2)

An innovative approach to learning genetics where the student working on an individual research project not only will learn some of the basic principles of

genetics but also will obtain preliminary experience in biological research. To be offered with BIO 341.

BIO 350 Physiology of the Central Nervous System (2)

A course on the functional organization and integrative operation of the central nervous system. Topics include neuronal activity, synaptic transmission, regional network properties, organization of cerebral function, sensation (including special senses), and control of motor activity.

Prerequisite: Introductory biology course or equivalent.

BIO 355 Visual Physiology (2)

A course primarily on the structure and function of the vertebrate visual system. Topics include optical properties of the eye, absorption of light energy by photopigments, transduction processes in photoreceptor cells, transmission and encoding of visual information through the retina, lateral geniculate body, visual cortex and associative structures, dark and light adaptation, and color vision.

Prerequisite: BIO 221 and permission of instructor.

BIO 387 Evolution and Systematics (4)

Exploration of the processes producing direction and order in evolution and increasing the diversity of life through the formation of new species. Among topics to be covered: origin of variability, differentiation of populations, speciation, phylogenetic concepts, chemical ecological relationships, co-evolution, and biochemical systematics.

Prerequisite: BIO 341 recommended.

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

Prerequisite: Permission of instructor.

BIO 407 Cellular Biochemistry (4)

An advanced level discussion on cellular control mechanisms emphasizing recent developments in the biochemistry of proteins and nucleic acids.

Prerequisite: BIO 225, CHM 204, and PHY 102.

BIO 408 Cellular Biochemistry Laboratory (1)

To accompany BIO 407. An introduction to modern research techniques in biochemistry. The laboratory work will include: different chromatographic techniques (paper, column, thin layers, etc.), electrophoresis and immunoelectrophoresis, ultracentrifugation and cell fractionation, isolation and density gradient analysis of the nucleic acids, etc.

BIO 411 Experimental Embryology (4)

Lectures and student seminars on current topics in gametogenesis, fertilization, and development. Emphasis is on the critical evaluation of current and classical publications. Offered winter semester.

Prerequisite: BIO 323 and permission of instructor.

BIO 412 Laboratory in Experimental Embryology (1 or 2)

The development of a variety of living embryos will be followed. When the stages of normal development have been observed, an experimental analysis of some aspect of embryogenesis will be undertaken.

Corequisite: BIO 411.

BIO 415 Differentiation (4)

A consideration of the theories relating to the control of differentiation and development.

Prerequisite: BIO 323 and BIO 341 (or 341 concurrently).

BIO 425 Biophysics (4)

An examination of the relationship of biology to the other sciences. Quantitative analysis of living systems will be emphasized, particularly at the cellular and subcellular levels. Offered winter semester.

Prerequisite: BIO 225, calculus, organic chemistry, and general physics.

BIO 426 Biophysics Laboratory (1)

To accompany BIO 425.

BIO 427 Human Genetics (4)

Key aspects of classical and molecular genetics of humans will be considered. Topics will be: inborn errors of metabolism, cytogenetics, somatic cell genetics, biochemical genetics, immunogenetics, and the genetics of cancer.

Prerequisite: BIO 341.

BIO 429 Cytochemistry (4)

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

Prerequisite: BIO 223, 224, and permission of instructor.

BIO 430 Cytochemistry Laboratory (2)

To accompany BIO 429. Individual research projects employing cytochemical techniques to study and compare the chemical compositions of several types of cells.

BIO 431 Cellular Motility (4)

A survey of the role and mechanism of cell movement in living systems. An introduction to applicable principles of physics and chemistry will be provided. Special consideration will be given to developmental movements (cell migration), cell division (mitosis), and the movement of microorganisms.

Prerequisite: BIO 111, BIO 121, PHY 101, and CHM 104.

BIO 435 Developmental Genetics (4)

An integrated discussion of the concepts of modern aspects of genetics derived from molecular and microbial systems, and their application to the problems of development in multicellular organisms. Offered fall semester.

Prerequisite: BIO 341, 342, 323, 225, and 226.

BIO 436 Developmental Genetics Laboratory (1)

To accompany BIO 435.

BIO 437 Virology (4)

Molecular biology of viruses, predominantly bacterial.

Prerequisite: BIO 225, 331, or 341.

BIO 438 Virology Laboratory (1)

To accompany BIO 437.

BIO 441 Microbial Genetics (4)

A discussion of the genetics of microbial systems, including molds, bacteria, protozoa, and viruses.

Prerequisite: BIO 331 and 341.

BIO 442 Microbial Genetics Laboratory (1)

To accompany BIO 441.

BIO 445 Ultrastructure (4)

A consideration of the fine structure of cells and cell products as revealed by electron microscopy and other procedures. Offered winter semester. Prerequisite: BIO 223 and permission of instructor.

BIO 446 Ultrastructure Laboratory (2)

To accompany BIO 445.

BIO 455 Seminar (4)

Discussion of recent publications in the biological sciences.

BIO 463 Cell Biology (4)

Prerequisite: BIO 223 and permission of instructor.

BIO 464 Cell Biology Laboratory (1)

To accompany BIO 463.

BIO 471 Advanced Physiology—Nerve (4)

Review and analysis of the modern concepts of membrane excitation phenomena of nerve and synapse. Electrophysiological phenomena discussed mostly at cellular and molecular levels. Offered fall semester in alternate years.

Prerequisite: BIO 221 and permission of instructor.

BIO 472 Advanced Physiology Laboratory (1)

To accompany BIO 471. An introduction to research techniques in electrophysiology. Work will include: use of oscilloscope, amplifiers, and stimulator; extracellular potential recording technique; and microelectrode technique.

BIO 473 Advanced Physiology—Muscle (4)

Review and analysis of the modern concepts of muscular activity and molecular mechanism of contraction. The discussions will include the ultrastructural correlation of muscle function and mechanics, biochemical approaches to elucidate energetics of muscle contraction, and theories of molecular basis of muscular contraction. Offered fall semester in alternate years.

Prerequisite: BIO 221 and permission of instructor.

BIO 474 Advanced Physiology Laboratory (1)

To accompany BIO 473. An introduction to research techniques in muscle physiology. Work will include: neuromuscular transmission study, isometric force measurements, isotonic lever design problems, length-tension and force-velocity relations, stress-strain relations of series elastic component, contractile properties of isolated actomyosin system, and glycerinated muscle fiber.

BIO 490 Individual Laboratory Work (2, 3, or 4)

Prerequisite: Permission of instructor.

BIO 497 Apprentice College Teaching (2)

Assisting in presenting a course, usually a laboratory course, to undergraduates. Prerequisite: Permission of instructor.

DEPARTMENT OF CHEMISTRY

CHAIRPERSON: Paul Tomboulian

PROFESSORS: Gottfried Brieger, Kenneth M. Harman, Lewis N. Pino, Paul Tomboulian

ASSOCIATE PROFESSORS: Julien Genyca, Steven R. Miller, Frederick W. Obear, Joel W. Russell, Parbury P. Schmidt, Robert L. Stern, Robert C. Taylor

ASSISTANT PROFESSORS: Michael D. Sevilla, Christine S. Soane

The Oakland University chemistry programs offer students the laboratories, equipment, and research opportunities typically found in larger universities while retaining the strong emphasis on undergraduate education and informality of student-faculty relations characteristic of smaller liberal arts colleges. The department offers both highly professional and interdisciplinary chemistry programs while retaining the liberal arts dedication to developing the highest intellectual and creative potential of its students. The Department of Chemistry offers programs of study leading to the degrees of Bachelor of Arts, Bachelor of Science, and Master of Science. The Department of Chemistry is committed to providing the highest quality education programs for its majors, with opportunities for students to achieve their maximum potentials.

Requirements For The Bachelor Of Science Degree With a Major in Chemistry

This program provides excellent professional preparation either for graduate study or for industrial work. Well-prepared students who regularly attend the spring sessions may also obtain the degree of Master of Science in chemistry in four calendar years.

Forty-eight credits in chemistry are required. These must include: the basic courses CHM 114, 115, 117, 118, 217, 218, 234, and 235, or their equivalents; the intermediate courses, CHM 312, 317, 344, 345, and 348; two advanced lecture courses in different areas; and two advanced laboratory courses in different areas. In mathematics and physics 26 credits are required. These must include MTH 154, 155, and 254; PHY 151, 152, and 158; or

their equivalents; and one additional approved MTH or PHY course at the 200-level or higher. Students completing this program ordinarily are awarded the Bachelor of Science degree. They may, however, petition the department to receive the Bachelor of Arts degree. GRM 114-115 or RUS 114-115 are recommended for students planning to go on to graduate study and research in chemistry.

The Department of Chemistry faculty, facilities, and curriculum meet the criteria of the American Chemical Society. Thus, the department is empowered to certify chemistry students as eligible for membership in the Society. Certification is granted to students who have successfully completed the requirements for the Bachelor of Science major in Chemistry. Foreign language study is recommended.

Requirements for the Bachelor of Arts Degree with a Major in Chemistry

This curriculum is designed for those students who prefer to plan much of their own program. It should be selected by chemistry students with strong interests in biochemistry, chemical physics, medicine, environmental studies, and technical-business or technical-legal careers.

Thirty-four credits in chemistry are required. These must include: the basic courses CHM 114, 115, 117, 118, 203, 204, 206, 207 (or 218), 217, or their equivalents; intermediate course CHM 305 or 344; and at least one other lecture course and one laboratory course in chemistry at the 300-level or higher. Also MTH 154 and 155, PHY 151, 152, and 158, or their equivalents are required.

Requirements for the Secondary Teaching Major in Chemistry

Thirty credits in chemistry are required. These must include CHM 114, 115, 117, 118, 203, 204, 206, 207, 217, and 305, or their equivalents. Also MTH 154 and 155 are required, as are ED 244, 245, 428, and 455. A minor is required. A group biology-physics minor, consisting of 12 credits in physics and 12 credits in biology, is recommended. Admission to major standing must be attained at least one semester prior to registering for ED 455.

Requirements for the Secondary Teaching Minor in Chemistry

Twenty credits in chemistry courses are required.

Modified Majors in Chemistry

Any student may petition the department for a modification of the requirements for the degree. Modifications may consist of substitutions of courses from other departments for required chemistry courses, or reduction of total credit required in chemistry or related fields. Modified major must include courses in organic, analytical, and physical chemistry along with associated laboratories. Petitions for modifications are available from the department office and must be approved by the department. Students should consult departmental advisers concerning appropriate modifications.

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 consistently high grades.

Admission to Major Standing

In order to be considered for graduation with a Bachelor of Science or Bachelor of Arts degree with a major in chemistry, the student must be admitted to major standing by the department at least three semesters prior to graduation. Students should make application at the department office. A student will be admitted to major standing after successful completion of a total of 30 credits in chemistry, physics, and mathematics, including CHM 217, MTH 155, and PHY 151.

Concentrations and Special Options

Students may complete requirements for both a chemistry major and a concentration in premedical studies by simply adding the required 15 credits in biology to a regular chemistry major.

By a suitable choice of courses in the liberal arts (B.A.) chemistry major and a minimum of 20 credits in appropriate environmental studies courses, a student may complete a concentration in environmental studies or environmental health. For those desiring more training in environmentally-related subjects, the requirements for the chemistry major may be reduced by applying for a modified major and substituting environmental studies courses for chemistry courses. Consult the program director or departmental advisers for details.

Students majoring in chemistry may also emphasize one or

more of the applied fields of chemistry, such as: environmental health, biochemistry, industrial chemistry, or chemical physics either through selecting appropriate courses in addition to the regular major curriculum or by developing an individualized program of study through the modified major procedure. Consult departmental advisers for details.

Placement in Introductory Chemistry Courses

The various introductory courses are designed for students in different majors and with different levels of mathematical and physical sophistication. In order to assure the best choice of course, each student must take the Chemistry Proficiency Test before registering for any of these courses. Placement is based on the results of this test as well as high school science and mathematics experience. A second test is given to those seeking admission to CHM 124. Consult the department or class schedule for additional details and the schedule for the tests.

UNDERGRADUATE COURSE OFFERINGS

Credit will not be allowed for more than one course from each of the following groups: CHM 206 and 218, 203 and 234, 204 and 235, and 305 and 344. Credit will not be allowed in major and minor programs for the following courses: CHM 101, 104, 201, 209, and 497.

CHM 101 Basic 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 or 144.

CHM 104 Introduction to Chemical Principles (4)

Students learn selected principles related to molecular structure, solution chemistry, stoichiometry, nomenclature, properties of elements, acid-base and oxidation-reduction chemistry, thermochemistry, and equilibrium. CHM 104-201 constitutes a complete two-semester sequence for students desiring an integrated program in general, organic, and biological chemistry. Recommended preparation is two years of high school mathematics, including algebra, and one year of high school science.

Prerequisite: Placement by Chemistry Proficiency Test.

CHM 114-115 General Chemistry (4 each)

A study of the basic concepts of chemical theory together with the development of problem-solving skills necessary to deal with quantitative aspects of stoichiometry, states of matter, elementary atomic and molecular structure, thermochemistry, equilibrium, and kinetics of reactions. CHM 114-115 are prerequisite to all other departmental courses, except CHM 201. Recommended preparation is three years of high school mathematics and one year of high school chemistry.

Prerequisite: Placement by Chemistry Proficiency Test.

Corequisite: MTH 123-124 or 154-155.

CHM 117-118 Chemistry Laboratory (1 each)

Experiments illustrating fundamental chemical principles and modern laboratory techniques, such as: analytical methods, separation studies, qualitative and instrumental analysis.

Prerequisite: CHM 114-115.

CHM 124-125 General Chemistry (Honors) (4 each)

Review of the basic concepts and principles of quantitative problem solving as in CHM 114-115, augmented by in-depth studies of aspects of chemistry of current interest. Calculus will be used as needed. Recommended preparation is three years of high school mathematics, one year of high school chemistry, and one year of high school physics.

Prerequisite: Placement by Chemistry Proficiency Test.

Corequisite: MTH 154-155.

CHM 127-128 Chemistry Laboratory (Honors) (1 each)

Selected experiments emphasizing modern laboratory practice.

Corequisite: CHM 124-125.

CHM 191 Computer Techniques for Chemistry (2)

For students with sufficient expertise in Fortran programming. Permits them to use numerical methods to solve problems of properties of gases, reaction rates, complex equilibria, spectroscopic analysis, and molecular orbital calculations.

Prerequisite: CHM 115 or two years of high school chemistry.

CHM 201 Introduction to Organic and Biological Chemistry (4)

A brief study of the structure and reactivity of organic molecules, emphasizing applications to the biochemical functioning of carbohydrates, proteins, lipids, and nucleic acids. CHM 201 is not applicable as chemistry credit for biology, chemistry, or physics majors; premedical students; or secondary-education minors in chemistry.

Prerequisite: CHM 104.

CHM 203-204 Organic Chemistry (4)

Study of functional groups, organic nomenclature, structure, and reactions. Stereochemistry, mechanisms of reactions, synthetic pathways, and applications are included.

Prerequisite: CHM 115.

CHM 206-207 Introductory Organic Chemistry Laboratory (1 each)

Training in the basic techniques of synthesis, degradation, separation, and identification of organic substances. Some experience with natural products included.

Prerequisite: CHM 118.

Corequisite: CHM 203-204.

CHM 209 Chemical Laboratory Techniques (2)

An introduction to chemical laboratory practices with emphasis on clinical aspects. Experiments chosen illustrate techniques and principles of synthesis, analysis, separation, and measurements of physical properties.

Prerequisite: CHM 201.

CHM 217 Introductory Analytical Chemistry (lecture 1, laboratory 2)

Classroom and laboratory practice in the fundamentals of gravimetry, titrim-

try, polarography, spectrophotometry, and complex equilibrium systems.
Prerequisite: CHM 118 or CHM 207.

CHM 218 Introductory Synthesis Laboratory (2)

Preparation of organic and inorganic compounds with emphasis on laboratory techniques and skills. Methods of purification, separation, and handling of materials. Simple applications of instrumental methods (IR, UV, NMR, and GC), and computer file-searching in identification of compounds.
Prerequisite: CHM 217 and CHM 234.

CHM 234-235 Structure and Reactivity (4 each)

A comprehensive introduction of organic chemistry. Functional groups, reaction mechanisms, stereochemistry rearrangements, polymers, and natural products.

CHM 261 Radioisotope Chemistry (lecture 1, laboratory 2)

Classroom study of nuclear structure, reactions, and decay schemes. Laboratory practice in the measurement of radioactivity, safety precautions, radioisotope handling techniques, and tracer applications.
Prerequisite: CHM 217 and MTH 155.

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

Introduction to laboratory research for students with no previous experience in research. May be repeated for credit. Graded S/N.
Prerequisite: Permission of instructor.

CHM 305 Introductory Physical Chemistry (4)

A one-semester study of the thermodynamics and kinetics of chemical reactions, transport properties, and irreversible processes. Emphasis is placed on solving physical-chemical problems related to biological systems.
Prerequisite: CHM 105 or 115, PHY 102 or 151, MTH 122 or 154. (MTH may be taken concurrently.)

CHM 312 Inorganic Chemistry (4)

A study of the compounds of the representative elements and transition metals.
Prerequisite: CHM 305 or 344.

CHM 317 Inorganic Chemistry Laboratory (2)

Advanced preparatory techniques; methods of purification and analysis.
Prerequisite or corequisite: CHM 312 and 218.

CHM 344-345 Physical Chemistry (4 each)

Macroscopic systems: thermodynamics, equilibrium properties, transport properties, and kinetics. Microscopic systems: quantum mechanics, bonding, molecular structure, statistical thermodynamics. Students may take CHM 345 after passing CHM 305, on condition of instructor's permission.
Prerequisite: CHM 115, MTH 155, PHY 152.

CHM 348 Physical Chemistry Laboratory (2)

Experimental measurements of thermodynamic, equilibrium, and kinetic properties of selected chemical systems. Emphasis on quality of data, analysis of error, and validity of results.
Prerequisite: CHM 305 or 344 and PHY 158.

CHM 351 Biochemistry (4)

An introduction to molecular biology and the chemistry of biological macromole-

cules; proteins and nucleic acids, enzymology, bio-energetics, and metabolic cycles.

Prerequisite: CHM 235 or 204.

CHM 357-358 Biochemistry Laboratory (2 each)

Training in the techniques of extraction, separation, identification, and measurement of activity of substances of biological importance.

Prerequisite or corequisite: CHM 351.

CHM 372 Air Chemistry (4)

Identical with ENV 372.

CHM 373 Water Resources (4)

Identical with ENV 373.

CHM 400 Seminar (1)

Weekly discussion of all fields of current interest in chemistry. May be taken two different semesters for credit. Graded S/N.

Prerequisite: Permission of instructor.

CHM 405 Selected Topics (1,2,4, or 6)

Advanced study in special areas: seminars, laboratory work, and readings. May be repeated for credit.

Prerequisite: Permission of instructor is required prior to registration.

CHM 413 Advanced Inorganic Chemistry (4)

Chemical applications of group theory with special emphasis on inorganic and organo-metallic chemistry. MO theory and VB theory, introduction to ligand-field theory, and molecular vibrational and electronic spectroscopy.

Prerequisite: CHM 312 and 345.

CHM 422 Advanced Analytical Chemistry (4)

Detailed treatment of theory and applications of modern analytical methods.

Prerequisite: CHM 344.

CHM 426 Electroanalytical Chemistry (Lecture 1, laboratory 2)

Basic electronics, passive networks, Laplace Transforms, operational amplifier circuits, building of instruments with emphasis on electroanalytical instrumentation. Lectures and laboratory.

Prerequisite: CHM 217, PHY 158, and CHM 344 (latter may be taken concurrently).

CHM 434 Advanced Organic Chemistry (4)

Detailed discussion of aspects of modern synthetic methods, stereochemistry, and reaction mechanisms.

Prerequisite CHM 204 or 235.

CHM 444 Advanced Physical Chemistry (4)

Application of quantum mechanics and statistical mechanics to chemical kinetics, molecular structure, and molecular spectroscopy.

Prerequisite: CHM 345.

CHM 448 Spectroscopy Laboratory (2)

Experimental techniques of spectroscopy: infrared, ultraviolet, nuclear magnetic resonance, electron spin resonance, mass spectroscopy.

Prerequisite or corequisite: CHM 444.

CHM 452 Advanced Biochemistry (4)

Topics in intermediary metabolism, cellular regulation, and molecular genetics.
Prerequisite: CHM 351 or BIO 407.

CHM 487 Advanced Preparations (2 or 4)

Specialized laboratory work in selected areas emphasizing advanced techniques.
Prerequisite: Permission of instructor is required prior to registration.

CHM 490 Research (1,2,4,6, or 8)

Laboratory practice in research for undergraduates. May be repeated for credit.
Graded S/N.

Prerequisite: Permission of instructor is required prior to registration.

CHM 497 Apprentice College Teaching (2 or 4)

Directed participation in the teaching of selected undergraduate chemistry courses. May be repeated for credit. Graded S/N.

Prerequisite: Permission of instructor.

DEPARTMENT OF CLASSICAL LANGUAGES AND LITERATURES

CHAIRPERSON: Stephen C. Shucard

ASSOCIATE PROFESSORS: Stephen C. Shucard, Cherryl A. Wagner

ASSISTANT PROFESSOR: Peter J. Binkert

INSTRUCTOR: David R. Cole

The goal of the classics curriculum is to transmit and interpret the ideas, ideals, and institutions of western antiquity to the student of the twentieth century. The thoughts and writings of men like Homer and Thucydides or Vergil and Tacitus are the wellspring of our culture.

Those who wish to pursue their interests in ancient Greece and Rome can do so either by intensive study of the original languages and literatures, or by a broadly-based selection of largely nonlanguage courses in ancient mythology, history, literature, philosophy, religion, and art offered by classics and other departments.

Of the four separate degree programs offered by the department, those in classical languages and Latin are primarily aimed at students who plan to pursue their education in graduate or professional school. The major in Classical Civilization is intended for those who prefer a more interdisciplinary approach to the field or are unable to complete more than three semesters in Latin or Greek.

Students who plan to continue classics in graduate school are urged to acquire a reading knowledge of a modern language (German or French) as well as a familiarity with world literature.

The Classics Majors

1. **The Major in Classical Languages:** Thirty-six credits are required, to be chosen from departmental offerings in Latin, Greek, and classics or ancient history. A typical classics major would include: 12 credits in Latin beyond LTN 215, three to four semesters of Greek, and 8-12 credits in classics (courses marked CLS). Those planning graduate work should plan their program with their departmental adviser.

2. **The Major in Latin:** The same as the major in classical languages, except that the degree may be earned without any courses in Greek.
3. **The Secondary Teaching Major in Latin:** Thirty-two credits are required, including 20 credits in Latin beyond LTN 215 and 12 credits in classics. The following education courses are required: ED 244, ED 245, ED 428, and ED 455.
4. **The Major in Classical Civilization:** Forty-eight credits as follow:
 - a. CLS 100.
 - b. Three semesters of Classical Greek (i.e., completion of GRK 214) or three semesters of Classical Latin (i.e., completion of LTN 214).
 - c. Either CLS 130 or 131, and either CLS 203 or 205.
 - d. Twelve credits to be chosen, in consultation with a departmental adviser, from the following: CLS 150, CLS 204, CLS 212, CLS 214, CLS 310, CLS 312, PHL 205, PHL 382.
 - e. Twelve credits to be chosen, in consultation with a departmental adviser, from the following: CLS 324, CLS 337, CLS 339, CLS 340, CLS 396, CLS 397, CLS 300, CLS 317, CLS 490, and Greek or Latin courses numbered 215 and above.
5. **A Classics Major With a Concentration in Linguistics:** Twenty credits in classics and 20 credits in linguistics. The courses in classics should include two courses in the Latin language beyond LTN 215, two courses in the Greek language, and one elective.

COURSE OFFERINGS

CLS 100 Introduction to Classical Civilization (4)

Survey of the artistic, literary, philosophical, and institutional heritage left to the modern world by ancient Greece and Rome.

CLS 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, particularly Latin and Greek; the relationship between meaning and culture, and meaning and context.

CLS 130, 131 The Dynamics of Ancient Civilization (4 each)

A comparative examination of the major ancient societies in the light of the origins, characteristics, and development of their political institutions, and the responses of the various societies to foreign groups and ideas. CLS 130 covers Egypt, Mesopotamia, Israel, and Greece. CLS 131 covers Rome and the Mediterranean. They are identical with HST 230 and 231.

CLS 150 Introduction to Greek and Roman Archaeology (4)

A general introduction to the literary, cultural, and historical importance of

classical Greek and Roman archaeology to our modern understanding of classical antiquity.

CLS 203 Survey of Greek Literature (4)

Survey of the major writers of Greece. All works in translation.

CLS 204 Classical Greek Philosophy (4)

Identical with PHL 204.

CLS 205 Survey of Roman Literature (4)

Survey of the major writers of Rome. All works in translation.

CLS 211 An Introduction to Old Testament Literature (4)

A study of the types of literature found in the Old Testament. Identical with ENG 211 and REL 211.

CLS 212 Near-Eastern and Greek Art (4)

Identical with AH 312.

CLS 214 Etruscan and Roman Art (4)

Identical with AH 314.

CLS 300 Topics in Classical Literature (4)

Examination of the origin, development, and influence of specific classical genres, including epic, lyric, tragic and comic poetry, satire, oratory, and the ancient novel.

CLS 310 The Structure of the Indo-European Languages (4)

A comprehensive investigation of the structure of the Indo-European languages with particular emphasis on Greek, Latin, and Sanskrit.

CLS 312 Classical Mythology (4)

The principal Greek and Roman myths and their uses in classical and post-classical art and literature. Offered winter semester. Identical with ENG 312.

CLS 317 The Classical Tradition (4)

A study of the classical influence on Western culture. While some attention is given to the visual arts, the main emphasis is on the classical traditions in Western literature.

CLS 324 The Ancient Historians (4)

The aims, methods, achievements, and limitations of ancient historiography studied through a reading of the most prominent ancient historians in translation.

CLS 337 Hellenic Greece (4)

Greek history from the Bronze Age to the time of Alexander the Great. Identical with HST 337.

CLS 339 Republican Rome (4)

Roman history from the regal period to the end of the Republic. Identical with HST 339.

CLS 340 Imperial Rome (4)

Roman history from the principate of Augustus to the fall of the western empire. Identical with HST 340.

CLS 350 Problems of Translation (4)

Identical with ENG 300 and MLT 350.

CLS 382 Ancient and Medieval Philosophers (4)

Identical with PHL 382.

CLS 396 The Ancient Near East: The World of the Bible (4)

Identical with HST 396.

CLS 397 History of the Second Jewish Commonwealth (4)

Identical with HST 397.

CLS 490 Directed Reading in Classical Civilization (4, 8 or 12)

Independent study for senior classical civilization majors only in areas not covered in regular course offerings.

GRK 114-115 Elementary Greek (4 each)

Forms and grammatical structures of classical Greek, together with simple connected reading.

GRK 214-215 Intermediate Greek (4 each)

Review of grammar, training in translation from and into Greek, and the reading of simple literary works, including selections from Plato, Euripides, and Homer.

Prerequisite: GRK 115.

GRK 320 Selections from Greek Literature (4)

A reading course, offered every semester as a tutorial. May be taken for one or more semesters.

Prerequisite: GRK 215.

GRK 480 Advanced Greek (4)

Tutorial study of individual authors, selected themes, or problems. May be taken for one or more semesters.

Prerequisite: GRK 320.

GRK 490 Independent Study: Greek (4)

Individual reading and research for advanced classics majors. Taught by arrangement.

Prerequisite: Permission of instructor.

LTN 114-115 Elementary Latin (4 each)

Forms and grammatical structures of classical Latin, together with simple connected reading. Designed for students with no prior knowledge of Latin.

LTN 214-215 Intermediate Latin (4 each)

Review of grammar, training in translation from and into Latin, and the reading of single literary works, including selections from Vergil and medieval or Renaissance Latin.

Prerequisite: LTN 115.

LTN 300 Topics in Latin Language (4)

Areas of study, such as Latin composition or grammar, selected by the instructor. Offered winter semester.

Prerequisite: LTN 215.

LTN 320 Selections from Latin Literature (4)

A reading course, offered every semester as a tutorial. May be taken for one or more semesters.

Prerequisite: LTN 215.

LTN 480 Advanced Latin (4)

Tutorial study of individual authors, selected themes, or problems. May be taken for one or more semesters. Offered every semester.

Prerequisite: LTN 320.

LTN 490 Independent Study: Latin (4)

Individual reading and research for advanced classics majors. Taught by arrangement.

Prerequisite: Permission of instructor.



DEPARTMENT OF ECONOMICS

CHAIRPERSON: Eleftherious N. Botsas

PROFESSORS: Robbin R. Hough, Siddheshwar Mittra, Norton C. Seeber

ASSOCIATE PROFESSORS: Eleftherious N. Botsas, David P. Doane, Karl D. Gregory, John E. Tower

ASSISTANT PROFESSORS: Alice C. Gorlin, Douglas D. Gregory, Kenneth B. Moberg, Socrates D. Tauntas

ADJUNCT PROFESSOR: Theodore O. Yntema

The curriculum for the liberal arts major in economics combines an emphasis on the concepts and tools of economic analysis, a broad general education, and the freedom to take several courses in other areas of interest to the student. The student learns to apply economic analysis to major problems that face the nation and the world today.

The program leading to a Bachelor of Arts degree with a major in economics is closely associated with programs in the School of Economics and Management. The requirements for a major in economics, the requirements for a concentration in economics or international economics, and the descriptions of the courses offered in economics are found in the School of Economics and Management's section of this catalog, page 215.

DEPARTMENT OF ENGLISH

CHAIRPERSON: Joseph W. DeMent

PROFESSORS: Maurice F. Brown, John P. Cutts, Joseph W. DeMent, Peter G. Evarts (English and Learning Skills), Thomas Fitzsimmons, James F. Hoyle, Donald E. Morse, Gertrude M. White

ASSOCIATE PROFESSORS: Herbert Appleman, Robert L. Donald, Jane D. Eberwein, Robert T. Eberwein, David W. Mascitelli, Joan G. Rosen

ASSISTANT PROFESSORS: Nigel Hampton, William F. Horwath, Beverley F. Jones, Brian F. Murphy, Helen J. Schwartz

INSTRUCTORS: Daniel P. Armstrong, James E. Hart

ASSOCIATED FACULTY: Professor William Schwab (Linguistics and English), Associate Professor Daniel H. Fullmer (Linguistics and English)

The Department of English is dedicated to excellence of teaching and to that scholarly involvement upon which such teaching is based. The faculty is composed of scholars and teachers in British and American literary history, in the theory and criticism of literature and arts media employing language and para-literary forms, in linguistics, in creative and expository writing, and in the teaching of English. The courses and programs are designed to introduce students to a number of significant literary works, to encourage mastery of the principal scholarly and critical methods and approaches to the study of language and literature, to foster an informed and fully human response to literature, and to help students develop precision and flexibility in their use of the language.

Suggestions for a variety of major programs, for inter-departmental concentrations, and for English and Language Arts concentrators and minors are available and fully described in the pamphlet, *Undergraduate Programs Offered by the Department*. All prospective students, majors or not, should pick up a copy in the office of the department in Wilson Hall. The department also publishes an *Advising Memo*, available in preregistration periods. This document fully describes forthcoming offerings. Frequent consultation with a faculty adviser of the Department of English is necessary to the selection of a program appropriate to the individual student's interests and his/her post-college aims.

Listed below are undergraduate programs of study leading to the degree of Bachelor of Arts with a major in English, a major in English for teaching on the secondary level, a major with concentrations, and a secondary teaching minor in English. The department offers programs leading to the degrees of Master of Arts in English and (in cooperation with the School of Education) Master of Arts in the Teaching of English. Programs and course offerings in these programs are fully described in the *Oakland University Graduate Study Catalog, Volume I*.

The Liberal Arts Major In English

English 140 (to be taken in either semester of the first year) and 36 additional credits selected from offerings in English are required. Of these, at least 12 credits must be in 300-level courses, and 4 credits must be in a 400-level seminar. Individual students must plan their programs in consultation with faculty advisers in English.

Secondary Teaching Major in English

The program requires 40 credits in English, including English 140, 210, 241, 242, either 224 or 225, either 376 or 377, and 498. Of the remaining 12 credits, 8 must be taken at the 300-level or above. An additional 8 credits in cognate fields, which must include one course in the teaching of reading at the secondary level, and one course in speech, oral interpretation, or acting, are required. Highly recommended are an additional 4 credits in speech, reading, linguistics, or English composition.

The English Major with a Special Concentration

Modified majors and English majors with add-on concentrations are being developed and current information is available in *Undergraduate Programs Offered by the Department of English*. The modified English/Linguistics major, requiring 24 credits in English and American literature and 20 credits in linguistics, is listed under linguistics offerings. The department cooperates to aid students planning to combine an English major with pre-professional concentrations such as journalism, pre-law, religious studies, and medicine. Other concentrations, such as English/American studies, are being developed.

Secondary Teaching Minor in English

Required for a minor are 20 credits drawn from offerings in English, including ENG 140. Of these credits, 12 should be selected

from the list of courses required in the teaching major (described above).

UNDERGRADUATE COURSE OFFERINGS

Courses numbered in the 100's (with the exception of English 140) are directed to the needs of students seeking nontechnical liberally-oriented courses for fulfillment of the university's distribution 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. Lecture 300-level courses 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 own special needs and their preparations in related disciplines. Courses in the theory and methods of literary history, criticism, and research, applied to problems presented by a specific topic or writer, are offered at the 400-level. They are designed for upperclass majors. Graduate courses on the 500-level are open to senior majors by permission of the instructor and the chairperson of the department.

ENG 100 Masterpieces of World Literature (4)

A survey acquainting the student with some of the great books of the world. Classics in various traditions.

ENG 105 Shakespeare (4)

A general introduction to representative dramatic works of Shakespeare. The course is designed for students seeking an English elective or a course to satisfy the distribution requirement in letters.

ENG 111 Modern Literature (4)

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

ENG 120 Current Topics in Literature (4)

Literature concerning an issue or an area of contemporary concern. The topic, to be announced at preregistration, will be in an area such as science fiction, popular literature, literature and the urban experience, or the contemporary artist and society.

ENG 140 Introduction to Literary Studies (4)

Intensive practice in the techniques of reading literature and introduction to important basic concepts of criticism and commentary. Reserved for English majors and minors as their first departmental course.

Prerequisite: Intention to major or minor in English.

ENG 150 Introduction to Visual Media (4)

Identical with SA 150 and SCN 150.

ENG 200 Topics in Literature and Language (4)

Topics or problems selected by the instructor.

ENG 201 Poetry (4)

Introduction to the analysis and enjoyment of poetry. Reading, lecture, and discussion, with opportunity for creative work.

ENG 202 Epic (4)

Introduction to the analysis and enjoyment of the epic. Reading, lecture, and discussion, with opportunity for creative work.

ENG 207 Drama (4)

Introduction to the analysis and enjoyment of drama. Reading, lecture, and discussion, with opportunity for creative work.

ENG 208 Prose Forms: Nonfiction (4)

The course focus alternates between biography and autobiography in one semester and discursive prose forms like the essay in the next. Writing assignments offer opportunity for creative work in the form.

ENG 209 Fiction (4)

Introduction to the informed enjoyment of fiction. Emphasis on only one form (e.g. the short story or novel) at the discretion of the instructor.

ENG 210 Fundamentals of Exposition (4)

A systematic approach to writing designed to enhance the student's own writing skills and also his/her ability to teach writing.

ENG 211 An Introduction to Old Testament Literature (4)

Identical with CLS 211 and REL 211.

ENG 224 American Writers: The Nineteenth Century (4)

An introduction to American literature of the last century with emphasis on writers such as Hawthorne, Melville, Whitman, and Twain, who form the core of the American literary tradition.

ENG 225 American Writers: The Twentieth Century (4)

A selective survey of modern and post-modern American writers, with attention to major works in several genres by such writers as Dreiser, Faulkner, Ellison, and Stevens.

ENG 240 Varieties of Literary Experience (4)

This course teaches the future elementary school teacher how to distinguish and analyze various types of literature as short stories, poems, and folktales. Attention to possible applications of materials and concepts to the teaching of language arts.

ENG 241 From Chaucer to Milton (4)

A representative selection of works in English literature from the fourteenth to the midseventeenth century.

ENG 242 From Classic to Romantic (4)

Representative works in English literature from 1650 to early nineteenth century.

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, and cultural and philosophical implications.

ENG 285 Interdisciplinary Issues (4)

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

ENG 300 Special Topics in Literature and Language (4)

Special problems or topics selected by the instructor.

ENG 301 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).

ENG 307 Modern Drama (4)

Studies in English, American, and Continental drama since Ibsen.

ENG 308 Playwriting (4)

A study of plays from various periods and theatrical styles, and an exploration of principles and techniques of dramatic writings. The last half of the course will be devoted exclusively to student scripts. Enrollment limited to 20.

Prerequisite: Permission of instructor.

ENG 309 Scriptwriting (4)

A study of screen plays and films, exploring principles and techniques of dramatic writing, with emphasis on problems posed by a primarily visual medium. The last half of the course will be devoted to student scripts. Alternates between comedy and drama in different semesters. Students may elect one or both semesters. Enrollment limited to 20.

Prerequisite: Permission of instructor.

ENG 310 Workshop in Writing (4)

Intermediate-level workshop for apprentice writers in fictive or discursive modes. Workshop may be in poetry, essay, fiction, etc., the emphasis varying from semester to semester.

Prerequisite: ENG 201, 207, 208, 209, or 210.

ENG 311 Chaucer (4)

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

ENG 312 Classical Mythology (4)

Identical with CLS 312.

ENG 313 Myth in Literature (4)

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

ENG 315 Shakespeare (4)

Reading and discussion of a representative selection of the 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 American literature before 1820. The course may concentrate on a

type or movement within the period.

ENG 320 Development of American Poetry (4)

An introduction to American poetry, with emphasis on the seventeenth to the nineteenth centuries.

ENG 322 Nineteenth Century American Fiction (4)

Selected readings in representative writers of the 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 American Fiction (4)

Readings in American fiction from Henry James to the present.

ENG 333 Modern American Poetry (4)

Studies in the poetry of the first half of the twentieth century.

ENG 340 Writing Now: Experimental Form (4)

Verbal arts in contemporary contexts. Writing and related arts—any or all combinations. Consideration of theory and some emphasis on praxis.

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. Relation of ethnic literatures to dominant national and international literary traditions considered.

ENG 342 Black American Writers (4)

A study of black literary figures and of the black experience in literature.

ENG 350 Topics in Film (4)

Topic or problem to be selected by the instructor.
Prerequisite: A course in film.

ENG 353 Old English Language and Literature (4)

The literature of England from the beginning to the Norman Conquest. Primary focus on the Old English lyric and epic. An introduction to the language of the Anglo-Saxons, balanced with readings in modern translation.

ENG 354 Medieval Literature (4)

Studies in English literature from the Norman Conquest to 1500, excluding Chaucer. Ballad, drama, romance, lyrics. Representative authors include the Pearl Poet, Langland, Scottish Chaucerians, Lydgate, and Malory.

ENG 355 Literature of the English Renaissance (4)

Selected poetry, prose, and drama; the Renaissance (roughly 1550-1660) as a historical and cultural phenomenon. The emphasis may vary from semester to semester at the instructor's discretion.

ENG 367 The Restoration and Eighteenth Century (4)

Studies in English literature from 1660 to 1800. Representative authors may include Dryden, Congreve, Swift, Pope, Johnson, Richardson, and Fielding.

ENG 369 The English Novel (4)

A study of representative English novels.

ENG 370 The Romantic Period (4)

Literature of the Romantic period with emphasis on major poets such as Wordsworth, Coleridge, Keats.

ENG 371 Victorian Literature (4)

Selected writers of the middle and late nineteenth century. Emphasis may be on fiction, poetry, prose, or the drama at the discretion of the instructor.

ENG 375 Modern Literature (4)

Modern British, American, and/or Continental literature, with concentration on the work of a small number of writers.

ENG 376 History of the English Language (4)

A detailed survey of the English language from its beginning to modern times.

ENG 377 Modern English Grammar (4)

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

ENG 390 Literary Theory and Critical Methods (4)

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

ENG 391 History of Literary Criticism (4)

The development of literary criticism, presented as a survey with emphasis on major theorists: Plato, Aristotle, Johnson, Coleridge, Arnold, Richards, Frye and others. Significant applications of theory examined.

ENG 392 History and Theory of Film Criticism (4)

Study of major critical approaches to film such as those of Sergei Eisenstein, Peter Wollen, Gene Youngblood, and selected Structuralists.

ENG 400 Advanced Topics in Literature and Language (4)

Advanced topics and problems selected by the instructor.

Prerequisite: Four courses in English.

ENG 401 Studies in Literary Kinds (4)

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

Prerequisite: Four courses in English.

ENG 410 Imaginative Writing (4)

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

ENG 451 Major American Writers (4)

Studies in one or two American writers to be selected by the instructor.

Prerequisite: Four courses in English.

ENG 452 Major British Writers (4)

Studies in one or two British writers to be selected by the instructor.

Prerequisite: Four courses in English.

ENG 453 Seminar: Studies in a Major Author (4)

Devoted to the study in depth of the work of a single writer in English or Ameri-

can literature, to be selected by the instructor.

Prerequisite: Four courses in English.

ENG 465 Shakespeare (4)

Intensive analysis of four or five of the plays.

Prerequisite: Four courses in English.

ENG 490 Advanced Criticism (4)

Intensive studies in criticism, often concentrating on a single school.

Prerequisite: Four courses in English.

**ENG 498 The Theories of Teaching Literature,
Language and Composition (4)**

Designed for the future teacher of English, this course focuses on materials and methods appropriate for the teaching of English in junior and senior high schools.

Prerequisite: English secondary education majors only.

ENG 499 Independent Reading (2 or 4)

A proposed course of study must be submitted to the prospective instructor in the semester preceding that in which the independent study is to be taken. Only three 499's may be credited toward the major. May be elected on an S/N basis.

Prerequisite: Four courses in English and permission of instructor.

DEPARTMENT OF HISTORY

CHAIRPERSON: John Barnard

PROFESSORS: Charles W. Akers, John Barnard, Richard M. Brace, Melvin Chernov, Robert C. Howes, George T. Matthews, W. Patrick Strauss, S. Bernard Thomas

ASSOCIATE PROFESSORS: De Witt S. Dykes, Jr., Leonardas V. Gerulaitis, James D. Graham, Gerald C. Heberle, Joseph A. Klaitis, Roy A. Kotynek, Paul M. Michaud, Anne H. Tripp, Richard P. Tucker

ASSISTANT PROFESSORS: Mary C. Karasch, Robert J. Krompart, Lawrence D. Orton, Carl R. Osthaus, Colin A. Palmer, I. Michael Solomon

The study of history at the undergraduate level has traditionally been considered one of the major paths to informed and effective citizenship. Its emphasis on broad knowledge, critical reading, careful judgment, and precise writing offers excellent preprofessional preparation for many careers in business, government service, law, the ministry, journalism, and library and museum service. Oakland's teacher training program draws on history in the elementary education major and minor concentrations in history/social science, in the secondary teaching major in social studies, and in the secondary teaching minor in history. Careers in college teaching and other forms of professional historical scholarship usually require postgraduate training, toward which solid work in the undergraduate major is extremely important. Students interested in achieving a Ph.D. in history should bear in mind that most graduate schools require demonstration of competence in one or two modern foreign languages. Every history major should plan his/her course of study in close consultation with a faculty adviser.

The Department of History offers a Master of Arts program, which is described in the Oakland University Graduate Study Catalog, Volume I. The department offers courses on both the undergraduate and graduate levels at night, and students can complete either the B.A. or the M.A. program entirely at night.

Requirements For The Major In History

The major in history, unless it is combined with an area studies concentration, requires 40 credits in history courses. At least 16

of these credits must be in courses numbered 300 or above. No more than 8 credits in HST 100, and no more than 16 credits in independent study (HST 391, HST 491) may be counted toward the history major. The special history major with an area studies concentration requires 24 credits in history courses.

Requirements For The Secondary Teaching Minor In History

The secondary teaching minor requires the completion of 20 credits in history courses, including HST 214 and HST 215.

Graduation Honors In History

Majors who wish to be considered for departmental honors must submit an application to the History Honors Committee together with a paper prepared in connection with regular course work and significantly more ambitious in research and bibliographic scope than a book review. The committee will want the original of the paper, with the instructor's comments and grade. There is no statutory lower grade point limit for honors, but the award is seldom made to students with less than a 3.50 average in their history courses.

Course Prerequisites

- 100-299 Introductory and survey courses with no prerequisites.
- 300-399 More advanced courses with the general prerequisite of English Proficiency Certification plus any special requirements listed beneath the courses.
- 400-499 Research courses on the most advanced undergraduate level with a general prerequisite of 20 credits in HST courses plus any special requirements listed beneath the courses.

COURSE OFFERINGS

HST 100 **Topics in History (4)**

An introductory course to enable students to sample various historical problems and to develop critical judgment regarding the nature and use of historical evidence. Recommended for students with little or no background in college level history. Offered each semester.

HST 201, 202 **Introduction to European History (4 each)**

HST 201 (Europe, 500-1715) surveys the Middle Ages, Renaissance, Reformation, and the early modern period through the era of Louis XIV. Offered each semester.

HST 202 (Europe, 1715-present) surveys European history from the Enlightenment to the modern age of industrialism, nationalism, and global conflict. Offered each semester.

HST 214, 215 Introduction to American History (4 each)

HST 214 is a survey of American political, economic, and social history from the colonial period through the Reconstruction era. Offered each semester.

HST 215 is a survey of American industrial growth, agricultural protest, experiments with imperialism, domestic reform, and world leadership from 1876 to the present. Offered each semester.

HST 220 Modern American Culture (4)

A survey of the cultural history of the United States from the nineteenth century to the present. Emphasizes the concurrent development of mass popular culture and avant-garde movements. Offered each year.

HST 230, 231 The Dynamics of Ancient Civilization (4 each)

Identical with CLS 130, 131.

HST 234, 235 Introduction to English History (4 each)

HST 234 surveys English history from the Middle Ages to the Glorious Revolution of 1688; it will emphasize constitutional development and the Common Law.

HST 235 surveys English history from 1688 to the present; it will emphasize political, social, economic, and legal development.

HST 251, 252 Introduction to Russian History (4 each)

HST 251 is a study of the political, social, and intellectual history of the Russian nation from its origins to 1855. Offered fall semester.

HST 252 is an analysis of the history of the decline of the Russian monarchy and the rise of the Soviet state from 1855 to the present. Offered winter semester.

HST 254 Eastern European History (4)

The historical development of the peoples and states of East-Central Europe and the Balkans — Poland, Ukraine, Czechoslovakia, Hungary, Rumania, Yugoslavia, and Bulgaria — from the Middle Ages to the present, with emphasis on the period since World War II.

HST 261, 262 Introduction to Latin American History (4 each)

HST 261 is a survey of pre-Columbian and colonial Latin America to 1825, stressing the Hispanization of the society, its socio-economic institutions, the influence of the Enlightenment, and the achievement of political independence. Offered fall semester.

HST 262 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. Offered winter semester.

HST 277, 278 Survey of Japanese History (4 each)

HST 277 is a survey of Japanese history from the pre-Buddhist period to the Tokugawas, with discussion of cultural and intellectual developments. Offered fall semester.

HST 278 is a survey of modern Japanese history emphasizing Japan's response to the West, with special study comparing the Japanese and Chinese experiences. Offered winter semester.

HST 280 History of Southeast Asia (4)

The rise of regional empires and Indian and Chinese cultural influence; the impact of the Western imperial powers, especially the British, French, and American; and modern nationalisms, both secular and religious, liberal and revolutionary. Offered in alternate years.

HST 282 Introduction to the History of India (4)

A survey of the history of India from the earliest emergence of a recognizable Indian identity during the second millennium B.C. until the establishment of the Republic of India in 1948. Offered fall semester.

HST 286, 287 Survey of African History (4 each)

HST 286 considers the history of Africa from earliest times to the sixteenth century. Offered fall semester.

HST 287 surveys the European colonization of Africa, the African slave trade to the Americas, and African resistance movements to imperialism from the sixteenth century to just prior to the partition of the continent at the Berlin Conference. Offered winter semester.

HST 291, 292 History of the Afro-American People (4 each)

HST 291 surveys the Afro-American experience from the African background through the Civil War period. Offered fall semester.

HST 292 surveys the post-Civil War experience of the Afro-American people. Offered winter semester.

HST 302 History of the American Worker in the Twentieth Century (4)

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

HST 306 Colonial and Revolutionary America (4)

The transplantation of European society to continental North America; the subsequent development of political, economic, and social institutions in the colonies; the Anglo-French struggle for the continent; and the American Revolution. Offered fall semester.

HST 307 American Religious History (4)

A study of American religious history, including such topics as religious elements in immigration, the separation of church and state, denominationalism and sectarianism, religion and nationalism, religious leadership, and religion as a social force. Offered winter semester. Identical with REL 307.

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

The making of the Constitution, the social, political, and economic development of the new nation and the subsequent force affecting expansion, social protest, and sectionalism to 1850. Offered in alternate years.

HST 312 The Civil War and Reconstruction, 1850-1876 (4)

The origins of secession, the wartime problems of the Union and the Confederacy, the principal military campaigns, the Reconstruction era and the creation of a new union, and the significance of the Civil War and Reconstruction in American history. Offered each year.

HST 313 American History, 1876-1900 (4)

The New South, industrial consolidation, the origins of the modern labor movement, the rise of the city, immigration, agrarian protest movements, the businessman's philosophy, and the challenge to *laissez faire*. Offered in alternate years.

HST 314 American History, 1900-1928 (4)

The social, political, and economic developments in the United States during the progressive era and the decade of the 1920's. Offered in alternate years.

HST 315 American History since 1928 (4)

The myth of the New Era, the social and political impact of the Great Depression, New Deal programs and radical alternatives, the isolationist-internationalist debate, modern Republicanism, and the New Frontier. Offered in alternate years.

HST 316 American Intellectual History to 1860 (4)

The history of American thought from the colonial period to the Civil War, emphasizing New England Puritanism, the transition from colonies to provinces, the era of the American Revolution, and the origins of modern America. Offered fall semester.

HST 317 American Intellectual History since 1860 (4)

Major intellectual trends in the United States from the Civil War to the present, including such topics as ideological conflict during the Civil War and Reconstruction, the impact of evolutionary thought, and responses to industrialization and urbanization. Offered winter semester.

HST 318 Topics in American Social History (4)

Selected topics in the history of popular beliefs, social structure and organization, and the process of social change, including movements of reform. Offered in alternate years.

HST 319 History of the American South (4)

The South from colonial times to the 1960's, emphasizing the transition from the agrarian, slave South of the antebellum period to the modern South of the twentieth century. Offered winter semester.

HST 320 U. S. Diplomatic History to 1898 (4)

The origins, formulation, and development of American foreign policy and diplomacy from the Revolution to the Spanish-American War, including neutrality and isolationism, the Monroe Doctrine, Manifest Destiny, and the Civil War. Offered in alternate years.

HST 321 U. S. Diplomatic History since 1898 (4)

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

HST 322 The Social History of American Education (4)

The educational impact of school, family, and church on American social and cultural life from the colonial period to the present. Offered in alternate years.

HST 323 Advanced Study in Afro-American History (4)

Group reading and discussion of interpretations of the Afro-American experience, bibliographical and research instruction combined with individual research, primarily on twentieth century Afro-American history.

Prerequisite: HST 292.

HST 325 Medieval Europe (4)

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

HST 326 The Italian Renaissance (4)

The European Renaissance period, with special emphasis on the Italian experience. Offered in alternate years.

HST 327 The Northern Renaissance (4)

European humanism, with special emphasis on the Lowlands, France, and Germany. Offered in alternate years.

HST 328 Europe in the Sixteenth Century (4)

A comparative analysis of European societies. The varieties of humanism; the Reformation; the structure of the Renaissance state; political rebellion and social revolution; dynastic and ideological warfare; the effects of overseas expansion upon Europe. Offered in alternate years.

HST 329 Europe in the Seventeenth Century (4)

A comparative analysis of European societies: the articulation of absolutism and constitutionalism, the emergence of the European states system, the origins and impact of modern science, the culture of the baroque, and the development of commercial capitalism. Offered in alternate years.

HST 334 Victorian and Edwardian England (4)

The political, cultural, and intellectual life of England from 1837 to the outbreak of World War I.

HST 335 Twentieth Century Britain (4)

The British adjustment to global wars, the later industrial revolution, mass democracy, and social change.

HST 337 Hellenic Greece (4)

Identical with CLS 337

HST 339 Republican Rome (4)

Identical with CLS 339.

HST 340 Imperial Rome (4)

Identical with CLS 340.

HST 341 Europe since 1914 (4)

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

HST 342 The Origins of Modern Germany (4)

The ancient and medieval roots of German civilization, the political fortunes of the Holy Roman Empire, the development of the concept of German nationality, and the rise of the German nation-state in the nineteenth century. Offered in alternate years.

HST 343 Germany since 1870 (4)

The history of the German nation-state, concentrating on constitutional and political developments in their social context. Offered each year.

HST 345 France since 1789 (4)

The political development of modern France as a nation-state and the cultural and economic movements connected with French public life. Offered each year.

HST 347 Tools of Historical Research (4)

A course to acquaint students of history with the auxiliary sciences of that discipline, with special emphasis on historical bibliography and the use of the library. Offered in alternate years.

Prerequisite: Junior standing.

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 monarchy and the emergence of democratic ideologies, and the French Revolution. Offered in alternate years.

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). Offered in alternate years.

HST 350 European Intellectual History to 1800 (4)

The main developments in European thought from the God-oriented world views of the Middle Ages to the application of Newtonian scientific concepts in the eighteenth-century Enlightenment. Emphasis will be on the reading of original materials. Offered in alternate years.

HST 351 European Intellectual History since 1800 (4)

European intellectual movements since 1800, emphasizing the impact of evolutionary, utilitarian, and existentialist theories and the criticism of traditional rationalist assumptions. Emphasis will be on the reading of original materials. Offered in alternate years.

HST 352 Kiev and Muscovy (4)

Russian history from the ninth to the seventeenth century with emphasis on the origins of the Kievan state and society, the struggle against the steppes, and the formation of a centralized Russia under the leadership of Moscow. Offered every third year.

Prerequisite: HST 251.

HST 353 Imperial Russia (4)

Russian history from Peter the Great to the Bolshevik Revolution: the growth of Russian national power, westernization, serfdom, and revolution. Offered in alternate years.

Prerequisite: HST 251 or HST 252.

HST 354 Soviet Russia (4)

Russia and the Soviet Union from 1917 to the present: revolution and civil war, collectivization and industrialization, Stalinism, World War II, de-Stalinization, the Soviet Union, and the world communist movement. Offered in alternate years.

Prerequisite: HST 252.

HST 359 Russian Intellectual History to Peter the Great (4)

Main intellectual and cultural developments in Russia prior to Peter the Great. The Russian Church and religious thought, literature, and the development of political ideology will be emphasized. Offered in alternate years.

Prerequisite: HST 251 or HST 252.

HST 360 Russian Intellectual History since Peter the Great (4)

Main intellectual and cultural developments since Peter the Great, with emphasis on the nineteenth century. Particular attention is devoted to the slavophiles, the westernizers, the populists and socialists, and several of the great realistic writers. Offered in alternate years.

Prerequisite: HST 251 or HST 252.

HST 363 History of Southern South America (4)

The social, political, and economic history of Argentina, Brazil, and Chile in the nineteenth and twentieth centuries; frontier expansion and Indian warfare; slavery and Empire in Brazil; regionalism and nationalism; industrialization and urbanization; and international relations. Offered each year.

HST 365 The Response to European Colonialism (4)

A comparative examination of the responses of the peoples of Africa and Latin America to European expansion, with emphasis on such themes as acculturation, resistance movements, nationalism, and modernization. Offered in alternate years.

Prerequisite: AS 064 or AS 068.

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 the present state of race relations in three areas. Offered in alternate years.

HST 367 Pre-Columbian and Colonial Mexico (4)

The scope and achievements of pre-Columbian Indian civilizations; the Spanish Conquest and its aftermath, the emergence of a multiracial society, the rise of creole nationalism and the achievement of political independence. Offered each year.

HST 370 China: Beginnings to Mid-T'ang, ca. 750 (4)

The history of China from the most ancient times until the rebellion of An Lushan in 755 A.D.

HST 371 China: Mid-T'ang to the Peak of Manchu Power ca. 1800 (4)

The institutional, intellectual, and aesthetic responses to the failure of T'ang cosmopolitanism, the elaboration of gentry economic controls, neo-Confucian orthodoxy, the literati ethos, and Chinese accommodations to the problems of foreign encroachment and foreign rule. Offered in alternate years.

HST 373 Nineteenth Century China (4)

Imperial China from the developments leading to the Opium War of 1839-42 to the collapse of the traditional order in the first decade of the twentieth century and the establishment of the republic in 1912. Offered each year.

HST 374 Nationalism and Communism in China (4)

The patterns of revolutionary nationalism in China from 1919 to the present, focusing on the Nationalist (Kuomintang) and Communist periods. Offered each year.

HST 375 Topics in Chinese Intellectual History (4)

A historical investigation of selected periods and problems in the intellectual history of China. Content will vary each semester. Offered each year.

HST 376 History of Chinese Communism: 1921 to the Present (4)

The Chinese Communist movement from its initial emergence in the wake of the May Fourth Movement of 1919 to the current period of reassessment and consolidation following the Cultural Revolution of the late 1960's.

HST 381 History of Early India (4)

The history of India from the most ancient times to the coming of the Mughals in the early years of the sixteenth century. Offered winter semester in alternate years.

HST 382 The Muslim Tradition in India and Pakistan (4)

The establishment of Muslim Power and culture in South Asia, its accommodation with Hindu culture, the Mughal empire and its decline, and the rise of modern Islamic nationalism leading to the creation of Pakistan and Bangla Desh. Offered in alternate years.

HST 383 British Imperialism and Hindu Nationalism in India, 1740-1947 (4)

India's political revolution in gaining independence against British imperialism. In contrast with China, India's failure to achieve the revolution of social and economic democracy.

HST 386 African Socialism (4)

The ideologies, tactics, and techniques of various recent socialist revolutions in Africa and the relation of African socialist aims to traditional and colonial Africa as well as to other forms of socialist thought and practice. Offered each year.

HST 387 Northwestern Africa (The Maghrib) since 1830 (4)

The Maghrib from the time of the French occupation to the present. Offered at irregular intervals.

HST 391 Directed Readings in History (4, 8, or 12)

Independent but directed readings designed for junior and senior majors in fields of history in which advanced courses are not available. Offered each semester. Prerequisite: Permission of instructor.

HST 396 The Ancient Near East: The World of the Bible (4)

The historical, geographic, sociological, and intellectual environment reflected in the Bible, beginning with ancient Mesopotamian and Egyptian civilization and concluding with the Hellenistic period. Identical with CLS 396. Offered at irregular intervals.

HST 397 History of the Second Jewish Commonwealth (4)

The historical events from the return from Babylon to the end of the Second Commonwealth (538 B.C. to 70 A. D.), including a consideration of the Great Assembly, the emergence of the synagogue, the Sanhedrin and Jewish sects, the origins of Christianity, and Greek-Roman-Jewish relations. Identical with CLS 397.

HST 398 The Jew in the Middle Ages (4)

Emphasizes relationships between Jews and political authorities, but covers changes in the emotional, religious, practical, and legal contest of Jewish life

from the early Middle Ages to the sixteenth century. Offered in alternate years.

HST 400 Seminar: Advanced Topics in History (4)

Reading, research, and discussion on a selected historical topic or period. Since topics will vary from semester to semester, students should consult the schedule of classes every term. Offered each year. May be repeated for credit.

HST 481 Seminar in Historiography (4)

Reading and research in topics analyzing the literature of historical inquiry and writing from the Greeks to the present. Offered irregularly.

HST 491 Directed Research in History (4, 8, or 12)

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

Prerequisite: Permission of instructor.

DEPARTMENT OF LINGUISTICS

CHAIRPERSON: William Schwab

PROFESSOR: William Schwab (Linguistics and English)

ASSOCIATE PROFESSOR: Daniel H. Fullmer (Linguistics and English)

ASSISTANT PROFESSORS: Peter J. Binkert (Linguistics and Classics),
Gayle H. Partmann (Linguistics and Sociology and Anthropology)

ASSOCIATED FACULTY: Professor, Donald C. Hildum (Speech Communi-
cation and Linguistics), Associate Professors, John W. Barthel (German
and Linguistics), Don Iodice (French and Linguistics); Assistant Professor,
Carlo Coppola (Hindi-Urdu and Linguistics)

Linguistics is concerned with the objective study of language, language history, comparison of languages, and with theories about human languages and their implications in language acquisition and learning theory. As recent research has indicated, linguistics plays a pivotal role in studies dealing with the nature of the mind. Rapid expansion of knowledge in linguistics has involved such fields as anthropology, computer and information science, language teaching, speech pathology, sociology, and dialectology, and has produced the new disciplines of biolinguistics, mathematical linguistics, psycholinguistics, and sociolinguistics as exciting and viable fields.

The Department of Linguistics offers a cross-disciplinary liberal arts major in linguistics leading to the Bachelor of Arts degree a modified liberal arts major in linguistics with a concentration in computer and information science, and concentrations in linguistics on a joint basis with other departments in the College of Arts and Sciences.

The department also offers a teacher education major in language arts with a specialization in teaching English to native speakers (12 credits) or to speakers of other languages (14 to 16 credits). The first specialization includes the study of social and geographical dialects in the U.S. and the relationship of language to culture and subcultures. The second specialization includes the study of bilingualism and the sociological aspects of cross-cultural interaction. Both programs include the study of literature (16 credits), which provides an introduction to the methods of literary analysis, the foundation for the critical read-

ing of literature and exposition, and a survey of important American and English authors.

Requirements for the Liberal Arts Major

1. 28 credits in linguistics courses, including LIN 101 and 201 (or LIN 301 and a LIN elective), LIN 302, and LIN 403 or 404. Only 12 of these credits may be in ALS courses.
2. 12 credits in a cognate area — anthropology, classical languages, computer and information science, English, modern languages, philosophy, psychology, sociology, or speech communication.
3. Fourth semester proficiency in a modern or classical foreign language. If the cognate area is in a foreign language, the language proficiency requirement must be met in a different language.

Requirements for Modified Major with Concentration in Computer and Information Science

1. 24 credits in linguistics courses, including LIN 101 and 201 (or LIN 301 and a LIN elective), LIN 302, and LIN 403 or 404. Only 8 of these credits may be in ALS courses.
2. 16 credits in CIS, including CIS 120, 121, 220, and 385, and one elective.
3. PHL 370.

Secondary Teaching Major in Language Arts

1. Core Program: 24 credits in the language arts core program to include LIN 101 and LIN 201 (or LIN 301 and an ALS or LIN elective), ENG 210, ENG 377 or LIN 404, ED 338, and one SCN elective.
2. Specializations:
 - a. Teaching English to native speakers of English:
12 credits in ALS or LIN courses to include ALS 176 or ALS 276, LIN 277, and ALS 420, or
 - b. Teaching English to speakers of other languages:
14 to 16 credits in ALS or LIN courses to include ALS 328 or 376, LIN 401, ALS 428, and ALS 429.
3. Literature: 16 credits in literature to include ENG 140, ENG 224 or ENG 225, ENG 241, and one elective.
4. 24 credits in education to include: ED 244, ED 245, ED 428, and ED 455.
5. If a minor in English is elected, 8 additional ALS or LIN credits are required for the major.

Concentrations In Linguistics

Students may elect a modified major in anthropology, classical languages, English, modern languages, philosophy, psychology, sociology, or speech communication and may concentrate in linguistics at the same time.

Requirements:

1. 20 credits in LIN or ALS courses to include:
 - a. LIN 101 and 201 (or LIN 301 and an elective)
 - b. For a major in:

Anthropology	ALS 276
Classical Languages	LIN 302
English	LIN 277
Modern Languages	ALS 320
Philosophy	LIN 207
Psychology	ALS 335
Sociology	ALS 376
Speech Communication	LIN 401
 - c. 8 credits of electives chosen so that at least two of the five ALS or LIN courses are at the 300 or 400 levels.
2. For requirements in the modified majors, consult the appropriate department.

COURSE OFFERINGS IN APPLIED LANGUAGE STUDIES

ALS 176 The Humanity of Language (4)

An introduction to the interrelationships of language and other cultural sub-systems. Linguistic knowledge, the child's acquisition of language, sound and writing systems, meaning and communication, language and social groups are among the topics discussed.

ALS 220 Practical Uses of Language (4)

A linguistic approach to the control of language: modern concepts of grammar, variation of sentence form and meaning, social variants, orthography, and punctuation from a linguistic perspective. Frequent exercises to improve the student's sensitivities to his/her use of language.

ALS 260 Bilingualistics (4)

The biology of language: animal communication and evolution of man's capacity for language, development of language in normal and abnormal children, anatomy of vocal and auditory apparatus, disorders of speech and hearing, and genetic aspects of language.

ALS 276 Language in Culture (4)

Language viewed as cultural behavior, its system, acquisition, and use; its relation to history, attitudes, and behavior; standard languages; social dialects; pidgins; and creoles. Identical with AN 276.

Prerequisite: One course in ALS, LIN, or AN 102.

ALS 320 Applied Linguistics (4)

A series of sections in French, German, Russian, and Spanish are offered in this course. Identical with FRH, GRM, RUS, and SPN 320.

ALS 328 Bilingualism (4)

A survey of cultural and psycholinguistic aspects of bilingualism: topics include bilingualism and intelligence, bilingual-bicultural education, maintenance of individual and communal bilingualism. The course will examine world-wide examples, but will be of special relevance to minority language groups in the U. S.

ALS 334 Language Development in Children (4)

Language acquisition in normal and abnormal children: stages of the acquisition process, the role of the environment, the relationship between language and the development of other skills, language acquisition in children with sensory and psychological disorders, and the relationship between language, reading, and writing.

ALS 335 Psycholinguistics (4)

A study of the psychology of language, the accommodation between the cognitive and physical structure of human beings and the structure of language, the nature of the language learning process, and the consequences of language use. Identical with PSY 335.

Prerequisite: One course in ALS or LIN and one course in PSY.

ALS 360 Neurolinguistics (4)

The neurology of language: essentials of neuroanatomy; neurological mechanisms underlying language; aphasia and kindred disorders of speech; the relationship of language to memory, intelligence, and cognition; language and mental retardation and psychological disorders.

ALS 376 Sociolinguistics (4)

Language in its social context: intrasocietal variation; social evaluation of language varieties (style, dialect) as an influence in language change; and the choice of a language variety as an index of group solidarity, social ideology, and individual attitudes. Identical with SOC 376.

Prerequisite: One course in ALS or LIN or SOC.

ALS 420 Linguistics and Reading (4)

A study of the English writing system: a close examination of spelling and morphology, ambiguity, dialect interference, and derivational vocabulary.

Prerequisite: LIN 201 or LIN 301.

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

A study of modern techniques of teaching pronunciation, grammar, and vocabulary. The preparation and use of language tests and laboratory techniques.

Prerequisite: LIN 201 or LIN 301.

ALS 429 Practicum (2 or 4)

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

Prerequisite: By permission only.

COURSE OFFERINGS IN LINGUISTICS

LIN 101 Introduction to the Structure of Language (4)

A basic approach to the modern study of language as rule-governed behavior, including the components of grammar, historical change in language, language acquisition, and language universals.

LIN 200 Topics in Linguistics (4)

Topics and problems selected by the instructor.

LIN 201 The Development of Linguistics (4)

An introduction to linguistic theory, basic concepts of linguistic science and techniques for analyzing language, with approaches representing early, as well as modern, schools of linguistic thought.

Prerequisite: LIN 101.

LIN 207 Semantics (4)

The study of meaning, which involves the relation between speaker, the language, and the real, or imagined world. Attention is given to modern theories about the organization of thought. Identical with SCN 207.

LIN 277 Sound Patterns of American English (4)

The fundamentals of articulatory phonetics with studies in American social and geographic dialects.

LIN 301 Linguistic Structures (4)

An introduction to synchronic linguistic analysis, with structural problems in natural languages.

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 or LIN 301.

LIN 401 Phonetics (4)

An introduction to articulatory and acoustic descriptions of spoken language, and training in the recognition and production of sounds found in languages other than English. Identical with SCN 430.

Prerequisite: LIN 201 or LIN 301.

LIN 403 Phonological Theory (4)

A presentation of theory and application of phonological analysis with emphasis on original work.

Prerequisite: LIN 201 or LIN 301.

LIN 404 Syntactic Theory (4)

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

Prerequisite: LIN 201 or LIN 301.

LIN 407 Semantic Theory (4)

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

Prerequisite: LIN 201 or LIN 301.

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

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

Prerequisite: LIN 201 or LIN 301.

LIN 480 Seminar in Linguistics (4)

Topics and problems selected by the instructor.

Prerequisites: LIN 201 or LIN 301.

LIN 490 Independent Study (4)

Special research projects in linguistics.

Prerequisite: Permission of Department of Linguistics.



DEPARTMENT OF MATHEMATICAL SCIENCES

CHAIRPERSON: George F. Feeman

PROFESSORS: Harvey J. Arnold, Louis R. Bragg, John W. Dettman, Ronald A. DeVore, George F. Feeman, William C. Hoffman, G. Philip Johnson, James H. McKay, Harvey A. Smith

ASSOCIATE PROFESSORS: J. Curtis Chipman, Jon Froemke, Donald G. Malm, Irwin Schochetman, Yel-Chiang Wu

ASSISTANT PROFESSORS: Richard E. Ewing, Robert A. Fontenot, Jerrold W. Grossman, Richard K. Molnar, Robert C. Sharpley

The Department of Mathematical Sciences offers programs of study leading to the degrees of Bachelor of Arts with a major in Mathematics, Bachelor of Science with a major in Mathematical Sciences, Master of Arts in Mathematics, and Master of Arts in Teaching in Mathematics. Students preparing for secondary teaching can be certified in either the B.A. or B.S. program. In addition, the department offers courses which are required or are recommended as electives in other programs of the university. For further information on graduate programs of the department, see the *Oakland University Graduate Study Catalog, Volume I*.

Whether in the B.A. or B.S. program, students are encouraged to elect a variety of applied courses both inside and outside the department. The greater the familiarity with applications of mathematics, the greater will be the possibilities of employment in a world which is becoming more mathematics-oriented each year. Concentrations or minors, or possibly even second majors, are available in computer science, the life sciences, the physical sciences, engineering, economics and management, the social sciences, and linguistics. Mathematics majors are advised to speak to department faculty before planning their programs.

Proficiency Examinations

Well-prepared freshmen who intend to major in mathematics should plan to take MTH 154 as early as possible. The department offers a proficiency exam during orientation, registration, and the first week of classes to place students in the appropriate MTH courses. MTH 101 through 105 are sequentially arranged so that each is a prerequisite for the next in the sequence. These

courses are open only to students who place into them via the proficiency exam. These courses also form prerequisites for regular courses as follow:

COURSE	PREREQUISITE
MTH 121 or 123	MTH 101-102
MTH 122 or 124	MTH 103 and MTH 121 or 123
MTH 154	MTH 104 with MTH 105 as a corequisite

Requirements for the Bachelor of Arts Degree With a Major in Mathematics

1. A minimum of 36 credits labeled MTH. These must include MTH 154, 155, 254, 275, 351, 475, and three courses with numbers greater than 351, except that MTH 414 may not be counted.
2. One course from among STA 226, APM 255, or APM 263.
3. Five courses outside the Department of Mathematical Sciences in areas related to mathematics. It is recommended that at least two of these be in science.

Requirements for the Bachelor of Science Degree With a Major in Mathematical Sciences

1. A minimum of 40 credits labeled MTH, APM, STA, or MOR. These must include MTH 154, 155, 254, 275, and APM 331-332.
2. One course from among STA 226, APM 255, or APM 263.
3. Except as specified above, courses with numbers below 322 and MTH 414 may not be counted toward the major.
4. One of the following applied options at the upper level:
 - a. Applicable Analysis and Mathematical Modeling: APM 255, 335, 431 or 435, 455, plus one elective.
 - b. Operations Research: STA 226, MOR 342, MOR 442-443, and one elective.
 - c. Statistics: STA 226, 325, 427; STA 326 or 425 or 428; and one elective.
5. 16 credits in an area related to the student's option outside the Department of Mathematical Sciences.

Requirements for Secondary Teaching Certification in Mathematics

Students interested in secondary education certification must include MTH 361 as an elective and must satisfy all of the education course requirements (ED 244, 245, 428, and 455). In addition, they must expand the corequirement into a certifiable teaching minor.

Requirements for the Secondary Teaching Minor in Mathematics

To qualify for the secondary teaching minor in mathematics, a student must take 20 credits of course work in the department. Only MTH 154, 155, and courses with at least MTH 155 as a prerequisite may be used to satisfy this requirement. It is recommended that the student select his/her courses from among MTH 154, 155, 254, 361; APM 255, 263, 331, 332; STA 226 and 325; and MOR 322 and 342.

In addition to the field experiences required for secondary education certification (tutoring in ED 428 and student teaching in ED 455), other field experiences are available in several areas of community service. Interested students should consult the department chairperson for detailed information.

Concentration in Computer and Information Science for Math Majors

Students interested in a concentration in Computer and Information Science with a math major must take four 4-credit courses labeled CIS, including one 300-level CIS course. CIS 209 and 409 may not be used.

COURSE OFFERINGS

Courses are indicated by the following letter designations:

MTH—Mathematics

APM—Applicable Analysis and Mathematical Modeling

STA—Statistics

MOR—Mathematical Methods of Operations Research

MTE—Mathematics for Elementary Education Majors

MTH 101 College Arithmetic (2)

A half-semester study of whole numbers, fractions and decimals, signed numbers, powers and exponents, roots and radicals, simple equations, and problem solving. Does not count toward the general education distribution requirement.

MTH 102 College Algebra I (2)

A half-semester study of sets, real numbers, absolute value, order relations, inequalities, \mathbb{R}^2 and the plane, graphs, and linear and quadratic functions.

MTH 103 College Algebra II (2)

A half-semester study of monomials, binomials, polynomials, factoring, roots of polynomial equations, quadratic equations, and complex numbers.

MTH 104 Elementary Functions (2)

A half-semester study of functions, graphs of functions, polynomial functions, rational functions, inverse functions, and exponential and log functions.

MTH 105 Trigonometry (2)

A half-semester study of angles and angular measures, trig functions, graphs, trig identities, inverse trig functions, and trigonometric equations.

MTH 121-122 Introductory Mathematics for the Social Sciences (4 each)

Elementary set theory, number systems, functions, linear systems, linear programming, matrices, and the basic concepts, theorems, and applications of calculus.

MTH 123-124 Introductory Mathematics for the Life Sciences (4 each)

Emphasis on topics from algebra, trigonometry, probability theory, statistics, and elementary calculus with applications to problems in biology.

MTH 127-128 Mathematics Laboratory (0, 1, or 2 each)

Two-hour weekly laboratory to accompany MTH 121-122 or MTH 123-124. Graded S/N.

MTH 154-155 Calculus (5 each)

A comprehensive study of analytic geometry, limits, differentiation, and integration of functions of one real variable. Each is offered fall and winter semester; MTH 155 is also offered spring session.

MTH 157-158 Mathematics Laboratory (0, 1, or 2 each)

Two-hour weekly laboratory to accompany MTH 154-155, respectively. Graded S/N. Credits applicable to graduation but not the major.

MTH 185 Mathematics—An Exploration Into Undergraduate Topics (4)

Topics selected from probability, calculus, linear algebra, group theory, number theory, abstract algebra, topology, projective geometry, logic, and foundations. The student will be expected to acquire familiarity and experience with abstract reasoning as it is applied in various areas of mathematics.

Prerequisite: Three years of high school mathematics and permission of instructor.

MTH 190-191 Topics in Mathematics (2 each)

Intended to provide the superior student with an introduction to the type of abstract reasoning used in advanced courses in mathematics. Enrollment is limited to students in MTH 154-155 respectively. MTH 190 offered fall semester, MTH 191 offered winter semester.

Prerequisite: Permission of department.

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. Offered fall and winter semesters.

Prerequisite: MTH 155.

MTH 257 Mathematics Laboratory (0, 1, 2)

Two-hour weekly laboratory to accompany MTH 254. Graded S/N. Credit applicable to graduation but not the major.

MTH 275 Linear Algebra (4)

A study of vector spaces, matrices, linear equations, determinants, characteristic values and vectors, and functions of matrices.

Prerequisite: MTH 155.

MTH 290 Independent Study (2 or 4)

Reading or research on some mathematical topic. Open only to sophomores.

Prerequisite: Written permission of department.

MTH 351 Introduction to Analysis (4)

An introduction to sets, sequences, series, topology of the real line, functions, continuity, uniform convergence, differentiation, Riemann integration, and the Fundamental Theorem of Calculus.

Prerequisite: MTH 275.

MTH 352 Complex Variables (4)

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

Prerequisite: MTH 254.

MTH 361 Geometric Structures (4)

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

Prerequisite: MTH 275.

MTH 372 Number Theory (4)

Number-Theoretic functions, diophantine equations, congruences, and quadratic residues.

Prerequisite: MTH 254.

MTH 405 Special Topics (2 or 4)

Advanced study of some topic in mathematics. May be taken more than once.

Prerequisite: Permission of department.

MTH 414 History of Mathematics (4)

Mathematics from ancient to modern times, its growth, development, and place in man's culture.

Prerequisite: MTH 122, 124, or 154.

MTH 415 Foundations of Mathematics (4)

An examination of the logical foundations of mathematics including analysis of the axiomatic method, basic set theory, cardinal and ordinal numbers, and the axiom of choice.

Prerequisite: MTH 351.

MTH 416 Concepts of Geometry (4)

A development of geometry from an algebraic and metric viewpoint, concentrat-

ing on Euclidean geometry.

Prerequisite: Permission of department.

MTH 453 Multivariable Analysis (4)

The topology of R_n , curves in R_n , derivatives and differentials, Lagrange multipliers, Taylor's formula, inverse and implicit function theorems, manifolds, multiple integrals, multilinear forms, differential forms, and closed and exact forms.

Prerequisite: MTH 351.

MTH 461 General Topology (4)

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

Prerequisite: MTH 351.

MTH 465 Differential Geometry (4)

Theory of curves and surfaces in Euclidean space with an introduction to the theory of matrix Lie groups.

Prerequisite: MTH 351.

MTH 475-476 Abstract Algebra (4 each)

Algebra of sets and mappings, groups, and homomorphisms, rings and ideals, factorization and divisibility, vector spaces, linear transformations, fields, and field extensions. MTH 475 offered fall semester, MTH 476 offered winter semester.

Prerequisite: MTH 275.

MTH 490 Independent Study (2 or 4)

Research on some mathematical topic.

Prerequisite: Permission of department.

MTH 497 Apprentice College Teaching (2 or 4)

Open to any well-qualified upperclassperson who obtains consent of a faculty member to assist in presenting a regular college course. The apprentice should be capable of assuming limited classroom teaching duties.

Prerequisite: Permission of department.

Applicable Analysis and Mathematical Modeling

APM 255 Linear Algebra and Differential Equations (4)

An introduction to linear equations and matrices, vectors, independence of vectors and functions, eigenvalues and eigenvectors, first order differential equations, linear differential equations, Laplace transforms, series methods, and boundary value problems.

Prerequisite: MTH 155.

APM 263 Discrete Mathematics (4)

An introduction to discrete mathematical structures with particular emphasis on their application to computer and information science. Topics will be drawn from the areas of set theory and relations, Boolean algebras, strings, and graphs. Some prior programming experience is recommended. Course is required for Computer and Information Science majors.

Prerequisite: MTH 155.

APM 331-332 Applied Analysis and Matrix Theory (4 each)

The limit concept, differential calculus of R_n , integration in R_n , advanced topics

in infinite series, matrix algebra, linear equations, determinants, eigenvalues and eigenvectors, computational techniques, Jordan forms, special matrices, quadratic forms.

Prerequisite: MTH 254, and MTH 275 or APM 255.

APM 335-336 Introduction to Numerical Analysis (4 each)

An introduction to mathematical methods appropriate to computer work. Topics treated include interpolation, approximation, quadrature, solution of differential equations, and matrix computation.

Prerequisite: MTH 254, and MTH 275 or APM 255.

APM 431 Elements of Partial Differential Equations (4)

Derivation of partial differential equations of physics, characteristic surfaces and classification, Fourier methods, Laplace transforms, orthogonal functions, initial and boundary value problems, the Riemann method, and numerical methods.

Prerequisite: MTH 351 or APM 331-332.

APM 435 Introduction to Mathematical Science (4)

The algebraic structures of scientific phenomena. Differential equations and dynamical systems. Partial differential equations of the physical and life sciences. Introduction to mathematical modeling.

Prerequisite: APM 255.

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 331 or MTH 351.

APM 463 Graph Theory and Combinatorial Mathematics (4)

An introductory course in combinatorics. Topics covered will include techniques of enumeration, fundamental concepts of graph theory, applications to transport networks, matching theory, and block design.

Prerequisite: MTH 254.

Statistics

STA 225 Introduction to Probability and Statistics (4)

Elementary set theory, sample spaces, combinatorics, random variables, Chebyshev's inequality, Bernoulli trials, binomial distribution, joint distributions, and introduction to statistics.

Prerequisite: MTH 123 or satisfactory performance on a proficiency examination.

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.

Prerequisite: MTH 122, MTH 124, or MTH 154.

STA 325-326 Statistical Methods and Experimental Design (4 each)

Hypothesis testing and estimation, analysis of variance, multiple comparison techniques, nonparametric and sequential techniques, randomized blocks, Latin

squares, factorial designs, nonlinear estimation, and time series analysis.
Prerequisite: STA 226.

STA 425 Elements of Stochastic Processes (4)

Random walk models, Markov chains and processes, birth and death processes, queueing processes, diffusion processes, and non-Markov processes.

Prerequisites: STA 226 and APM 331.

STA 427-428 Introduction to Mathematical Statistics (4 each)

The distribution of random variables, conditional probability and stochastic independence, special distributions, functions of random variables, interval estimation, sufficient statistics and completeness, point estimation, tests of hypothesis, and analysis of variance.

Prerequisite: APM 331-332, or MTH 351 and MTH 275.

Operations Research

MOR 322 Mathematical Models in the Social Sciences (4)

Formulation in mathematical terms of phenomena from the social sciences, solution of the resulting mathematical problems, and the interpretation of results. Models will be drawn from economic theory, ecology, theoretical sociology, and management science.

Prerequisite: MTH 122 or 154.

MOR 342 Introduction to Operations Research (4)

Topics will be drawn from areas such as inventory control, dynamic programming, Markov decision problems, waiting-line phenomena, transport networks and assignment problems, game theory, Boolean analysis, and scheduling problems.

Prerequisite: MTH 254 and STA 226, or MTH 122 and ECN 210 with 3.0 or better.

MOR 442-443 Mathematical Methods of Operations Research (4 each)

Decision problems in operations research, classical optimization techniques, mathematical programming, queueing theory, game theory and decision making, and graphs and networks.

Prerequisite: APM 331-332.

Mathematics for Elementary Education Majors

MTE 301 Elementary Set Theory and Arithmetic (2)

The elements of set theory and arithmetic. Solving linear equations in one variable. Enrollment limited to majors in elementary education.

Prerequisite: Admission by placement examination.

MTE 310 The Integers (2)

Ordinary and exotic algorithms for addition, subtraction, multiplication, and division. Radix Theory, historical numeration systems. Mathematics laboratory project. Enrollment is limited to majors in elementary education.

Prerequisite: MTE 301 or satisfactory performance on a proficiency examination.

MTE 311 The Rationals (2)

The divisibility properties of the integers, primes, composites, units, and the division algorithm. Rational numbers, equivalence of rational numbers, and operations on rational numbers. Various representations, including decimals, for rational numbers and algorithms for operating with these representations.

Mathematics laboratory project. Enrollment is limited to majors in elementary education.

Prerequisite: MTE 310.

MTE 312 Intuitive Euclidean Geometry (2)

Basic notions: points, lines, planes, angles, parallelism and perpendicularity, elementary geometry of the triangle, similarity, circles and regular polygons, and figures in three-space. Mathematics laboratory project. Enrollment is limited to majors in elementary education.

Prerequisite: MTE 310-311.

MTE 313 Geometry, Statistics, Probability (2)

Length, area, and volume. Measures of central tendency and dispersion, graphical representation, the addition and multiplication principles of counting, and probabilities of simple events. Mathematics laboratory project. Enrollment is limited to majors in elementary education.

Prerequisite: MTE 310-311.

MTE 317 Vector Geometry (4)

Geometry of the plane and space studied by means of vectorial ideas, independence of a set of vectors, and linear transformations. Mathematics laboratory project. Enrollment limited to majors in elementary education.

Prerequisite: MTE 312.

MTE 410 Elementary School Mathematics and the Computer (4)

Selected topics in mathematics useful to elementary school teachers in line with current curriculum developments. Computer-assisted programs will be emphasized. Enrollment is limited to majors in elementary education.

Prerequisite: MTE 311.

MTE 418 Theory of Equations (4)

Solution of equations in one unknown. Descartes's rule of signs, intermediate value theorem, Euclidean algorithm for polynomials, basic numerical methods for finding roots using the computer, and systems of equations. Enrollment is limited to majors in elementary education.

Prerequisite: MTE 410.

DEPARTMENT OF MODERN LANGUAGES AND LITERATURES

CHAIRPERSON: Jack R. Moeller

PROFESSORS: Alfred J. DuBruck (French), Helen Kovach (Russian), Carmine R. Linsalata (Spanish and Italian), Richard A. Mazzara (French and Portuguese), Jack R. Moeller (German), Robert E. Simmons (German), Norman Susskind (French), Amitendranath Tagore (Chinese)

ASSOCIATE PROFESSORS: John W. Barthel (German), William C. Bryant (Spanish), Dolores M. Burdick (French), Renate Gerulaitis (German), Dmytra Ijewliw (Russian), Don R. Iodice (French), Kathryn M. McArdle (Spanish), Munibur Rahman (Hindi-Urdu), Carmen M. Urla (Spanish)

ASSISTANT PROFESSORS: Carlo Coppola (Hindi-Urdu), Jerry M. Freeman (Russian), William D. Jaymes (French), John Marney (Chinese), David Saint-Amour (French)

INSTRUCTORS: Mariano Palañes (Spanish)

SPECIAL INSTRUCTORS: Anna R. Barnes (Spanish), Cordell W. Black (French), Lee M. Corrigan (Russian), Norbert Noeldechen (German), Shih-Chen Peng (Chinese)

VISITING LECTURERS: Yosef Levanon (Hebrew)

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 its literature and civilization, to acquaint them with the cultural background of that country or countries. It prepares students also for graduate work, teaching at the secondary and elementary levels, and careers in the business world or government service.

Students whose main interests lie in fields other than foreign languages and cultures may wish to investigate the advantages of combining them with competence in this field. There are standard concentrations, for example in economics/management or linguistics. Other majors such as political science, English, art, and music are enriched by the knowledge of a foreign language and culture. Students interested in study or work abroad, graduate study, or nonacademic careers should obtain assistance from special advisers in the department familiar with the possibilities in these areas.

The selection of a foreign language to study should be a reasoned

one. It is usually best to continue with a language begun in high school. However, if students wish to learn one not widely taught at the secondary level, they should not hesitate to change. Those who need advice about these choices are asked to consult with a member of the department.

Placement Examinations

A placement test is administered by the Undergraduate Advisement and Counseling office. Students who enter Oakland with previous work in French, German, Russian, or Spanish, and who wish to continue the study of one of these languages, should take the appropriate placement test during summer orientation. Students are urged to consult with the department's advising office about the results of the examination and placement in the proper course at the proper level.

Requirements for the Liberal Arts Major in a Modern Language

The requirement is 32 credits beyond course number 216 in the chosen language, culture, and literature, including the course numbered 370 in the chosen language; a collateral course in history or civilization is also required. German majors are expected to take ENG 140 in their second or third year. Students planning to do graduate work are strongly urged to study a second foreign language recommended by the department.

Requirements for the Liberal Arts Major in a Modern Language with Concentrations in Linguistics, Theatre Arts, and Economics and Management

Modified majors are available in French, German, Russian, Spanish, and Chinese with the above concentrations. The requirement in French, German, Russian, and Spanish is 24 credits beyond 216. In Chinese the requirement is 16 credits beyond CHE 216, plus 12 credits in Chinese Area Studies including AS 062 and AS 490. For concentration requirements, see Linguistics, page 100, Theatre Arts, page 180, and Economics and Management, page 223.

Requirements for the Liberal Arts Major in Chinese Language and Civilization

The requirement in Chinese for this major is 16 credits beyond CHE 216, selected from departmental offerings in consultation with an adviser. Twenty credits in East Asian Area Studies, including AS 490, are also required. See East Asian Area Studies program, page 189.

Requirements for the Liberal Arts Major in Latin American Languages and Civilization

Requirements in Spanish are 24 credits beyond SPN 216. An alternative language requirement for this major is 16 credits in Spanish beyond SPN 216 plus course work in Portuguese through POR 214. French may be substituted for Portuguese in the alternative requirement. Twenty credits are required in Latin American Area Studies courses including AS 490. See Latin American Area Studies program, page 193.

Requirements for the Liberal Arts Major in Russian Language and Civilization

Requirements are 16 credits in Russian language and civilization beyond RUS 216, and 20 credits in Slavic Area Studies courses, including AS 490. See Slavic Area Studies, page 192.

Requirements for the Secondary Teaching Major in a Modern Language

Teaching majors are available in French, German, Russian, and Spanish. The requirement is 28 credits beyond 216 in the chosen language and its literature, including 314 and 318. In addition, 24 credits in education are required: ED 244, 245, 428, and 455.

Translation Program

Students may qualify for a translation certificate by completing language courses numbered 355 and 455, and ML 491, and may then become candidates for the American Translators Association Accreditation Test.

Requirements for the Secondary Teaching Minor in a Modern Language

The requirement is 20 credits in one language. Of these credits, 16 must be beyond the 215 level, including 314 and 318.

Requirements for an Elementary Teaching Concentration in a Modern Language

For students who wish to teach a foreign language in the elementary grades or at the junior high school level, the requirement is 36 credits in one language including elementary and intermediate courses. For complete details on other requirements, including courses in education, see page 238.

COURSE OFFERINGS

Chinese Language and Literature

CHE 101 Practical Chinese (2)

An introduction to Chinese. Emphasis is placed on the spoken language useful for travel and business. Some attention is paid to calligraphy. Cultural information is included.

CHE 111-112 First Year Laboratory and Speaking Chinese (1 each)

A two-semester sequence of practice in listening to and speaking Chinese, including supervised laboratory work and drill sessions. To be taken in conjunction with Chinese 114-115. Required of majors. CHE III must be taken first.

CHE 114-115 Introduction to Chinese (4 each)

A two-semester sequence in the fundamentals of modern Mandarin Chinese (kuo-yu). A beginning course intended for students who have had no more than one year of secondary-school level preparation. CHE 114 must be taken first.

CHE 211-212 Second Year Laboratory and Speaking Chinese (1 each)

A two-semester sequence continuing the work in CHE 111-112. To be taken in conjunction with CHE 214-215 only. Required of majors. CHE 211 must be taken first.

Prerequisite: CHE 111-112.

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.

CHE 216 Basic Chinese Conversation (2)

The course is designed to develop the student's ability to organize and express ideas in Chinese with a minimum of inhibition.

Prerequisite: CHE 115.

CHE 310 Literary Chinese (4)

Studies based upon literary texts of Confucius, Mo Tzu, etc.

Prerequisite: CHE 215

CHE 312 Advanced Pai-hua (4)

This will be an intensive course in spoken colloquial Chinese, with emphasis on grammatical constructions and sentence patterns.

Prerequisite: CHE 215.

CHE 316 Intermediate Chinese Conversation (2)

Chinese 316 provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language.

Prerequisite: CHE 215.

CHE 320 Readings in Chinese Newspapers (4)

Selections from newspapers of mainland China, Taiwan, and southeast Asia.

Prerequisite: CHE 215.

CHE 330 Readings in Chinese Political Essays (4)

Studies in the documentary style of Chinese, selected mainly from writings of twentieth-century political leaders of China.

Prerequisite: CHE 215.

CHE 340 Twentieth Century Chinese Literature (4)

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

Prerequisite: CHE 215.

CHE 410 Chinese Fiction and Drama (4)

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

Prerequisite: CHE 310 or CHE 312.

CHE 421 Selected Classical Texts (4)

Studies of texts in advanced literary Chinese.

Prerequisite: CHE 310.

CHE 431 Classical Chinese Stories (4)

Studies of selected stories from different classical Chinese sources.

Prerequisite: CHE 310.

CHE 440 Chinese Poetry (4)

Selections from either classical T'ang and Sung Dynasty poems or from the post-May-4th movement of poetry.

Prerequisite: CHE 310.

**CHE 490 Directed Readings and Research in Chinese
(2, 4, or 8)**

For students with a high degree of competence in the language. May be conducted either in literary or in modern Chinese.

Prerequisite: Permission of instructor.

French Language and Literature**FRH 007 La Puissance Treize
(French Acting Troupe) (1)**

Participation in French playlets performed both on and off campus. Work at all levels of competence.

Prerequisite: Permission of instructor.

**FRH 111-112 First Year Laboratory and Speaking
French (1 each)**

A two-semester sequence of practice in listening to and speaking French, includ-

ing supervised laboratory work and drill sessions. To be taken only in conjunction with FRH 114-115. Required of majors. FRH 111 must be taken first.

FRH 114-115 Introduction to French (4 each)

A two-semester sequence in the fundamentals of French. A beginning course for students who have had no more than one year of secondary-school level preparation. FRH 114 must be taken first.

FRH 211-212 Second Year Laboratory and Speaking French (1 each)

A two-semester sequence continuing the work of FRH 111-112. To be taken only in conjunction with FRH 214-215. Required of majors. FRH 111 must be taken first.

FRH 214-215 Second Year French (4 each)

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

FRH 216 Basic French Conversation (2)

The course is 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 interested in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor. May be repeated for credit once.
Prerequisite: FRH 215.

FRH 313 French Phonetics (2)

Intensive group and individualized practice in the sound system of French, with specific reference to interference from English. Both written and laboratory work required.
Prerequisite: FRH 215.

FRH 314 French Grammar Review (2)

Intensive review of French grammar.
Prerequisite: FRH 215.

FRH 316 Intermediate French Conversation (2)

Provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language.
Prerequisite: FRH 215.

FRH 318 French Composition (2)

Intensive practice in written composition. Techniques of textual analysis and exposition are introduced.
Prerequisite: FRH 215.

FRH 320 Applied Linguistics of French (4)

Treats the essential linguistic principles which impact on foreign language learning: phonological, morphological, and syntactic interference; sound/spelling correspondences; and language learning, error analysis, and remediation. Language-specific drills and exercises included. Identical with ALS 320.
Prerequisite: FRH 215.

FRH 350 French Theatre (4)

The study of French plays from various periods, with the production of a play

as a continuing class project. Lectures and discussions in French.
Prerequisite: FRH 215.

FRH 351 French Civilization (4)

An overview of contemporary life, education, and socio-economic conditions in France and other French-speaking countries. Conducted in French.
Prerequisite: FRH 215.

FRH 355 Translating French (4)

Translation from French to English of a wide variety of materials, ranging from commercial and technical to literary. Individual students may choose the areas they wish to emphasize. Study of both languages will facilitate the conversion of French into accurate, idiomatic English.
Prerequisite: FRH 215.

FRH 369 Field Experiences in Teaching French in the Lower Grades (2 or 4)

Provides supervised experience in teaching French in the elementary school. Graded S/N. May be repeated for credit once. Does not carry credit toward departmental major.
Prerequisite: FRH 214.

FRH 370 Introduction to French Literature (4)

A sampling of critical approaches to the study of selected masterpieces of French literature. Conducted in French.
Prerequisite: FRH 215.

FRH 380 Survey of French Literature (4)

A survey of the highlights of French literature. Intended to supplement the work of FRH 370. Conducted in French.
Prerequisite: FRH 370.

FRH 404 French Films (4)

This course introduces the student to French culture and thought via the cinematic medium. Lecture, film viewing, and discussion.
Prerequisite: Permission of instructor.

FRH 408 Formal Speaking in French (2)

This course is designed to help the student develop a style of language and delivery appropriate to formal speaking situations. Course work will include oral presentations, self-recording, and critique.
Prerequisite: FRH 316.

FRH 413 From the Middle Ages through the Sixteenth Century (2)

A study of additional authors and works from the period covered by LIT 313. To be taken concurrently with LIT 313. Conducted in French.
Prerequisite: FRH 370.

FRH 414 The Seventeenth Century (2)

A study of additional authors and works from the period covered by LIT 314. To be taken concurrently with LIT 314. Conducted in French.
Prerequisite: FRH 370.

FRH 415 The Eighteenth Century (2)

A study of additional authors and works from the period covered by LIT 315. To be taken concurrently with LIT 315. Conducted in French.
Prerequisite: FRH 370.

FRH 416 The Nineteenth Century: First Half (2)

A study of additional authors and works from the period covered by LIT 316. To be taken concurrently with LIT 316. Conducted in French.
Prerequisite: FRH 370.

FRH 417 The Nineteenth Century: Second Half (2)

A study of additional authors and works from the period covered by LIT 317. To be taken concurrently with LIT 317. Conducted in French.
Prerequisite: FRH 370.

FRH 418 The Twentieth Century (2)

A study of additional authors and works from the period covered by LIT 318. To be taken concurrently with LIT 318. Conducted in French.
Prerequisite: FRH 370.

FRH 419 "Third World" Literature of European Expression (2)

A study of additional authors and works from the areas covered by LIT 319. To be taken concurrently with LIT 319. Conducted in French.
Prerequisite: FRH 370.

FRH 455 Translation into French (4)

Translation from English into French of a wide variety of materials ranging from commercial and technical to literary. Individual students may choose to emphasize areas of interest.
Prerequisite: FRH 314.

FRH 480 Seminar in French Literature (4)

Study of individual authors, selected themes, or critical problems.
Prerequisite: Permission of department.

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

Directed individual research and reading designed for advanced French majors. May be taken for one or more semesters.
Prerequisite: Permission of department.

German Language and Literature

GRM 111-112 First Year Laboratory and Speaking German (1 each)

A two-semester sequence of practice in listening to and speaking German, including supervised laboratory work and drill sessions. To be taken only in conjunction with GRM 114-115. Required of majors. GRM 111 must be taken first.

GRM 114-115 Introduction to German (4 each)

A two-semester sequence in the fundamentals of German. A beginning course for students who have had no more than one year of secondary-school level preparation. GRM 114 must be taken first.

GRM 211-212 Second Year Laboratory and Speaking German (1 each)

A two-semester sequence continuing the work of GRM 111-112. To be taken only in conjunction with GRM 214-215. Required of majors. GRM 211 must be taken first.
Prerequisite: GRM 111-112.

GRM 214-215 Second Year German (4 each)

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

Prerequisite: GRM 114-115.

GRM 216 Basic German Conversation (2)

The course is designed to develop the student's ability to organize and express ideas in German with a minimum of inhibition.

Prerequisite: GRM 115.

GRM 290 Directed Readings in German (2 or 4)

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

Prerequisite: GRM 215.

GRM 314 German Grammar Review (2)

Intensive review of German grammar.

Prerequisite: GRM 215.

GRM 316 Intermediate German Conversation (2)

GRM 316 provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language.

Prerequisite: GRM 215.

GRM 318 German Composition (2)

Intensive practice in written composition. Techniques of textual analysis and exposition are introduced.

Prerequisite: GRM 215.

GRM 320 Applied Linguistics of German (4)

Treats the essential linguistic principles which impact on foreign language learning: phonological, morphological, and syntactic interference; sound/spelling correspondences and language learning, error analysis and remediation. Language-specific drills and exercises included. Identical with ALS 320.

Prerequisite: GRM 215.

GRM 351 German Civilization (4)

An overview of contemporary life, education, and socio-economic conditions in Germany and other German-speaking countries. Conducted in English.

Prerequisite: GRM 215.

GRM 355 Translating German (4)

Translation from German to English of a wide variety of materials, ranging from commercial and technical to literary. Individual students may choose the area they wish to emphasize. Study of both languages will facilitate the conversion of German into accurate, idiomatic English.

Prerequisite: GRM 215.

GRM 369 Field Experience in Teaching German in the Lower Grades (2 or 4)

Provides supervised experiences in teaching German in the elementary school. Graded S/N. May be repeated for credit once. Does not carry credit toward departmental major.

Prerequisite: GRM 215.

GRM 370 Introduction to German Literature (4)

A sampling of critical approaches to the study of some masterpieces of German

literature. Conducted in German.

Prerequisite: GRM 215.

GRM 380 Survey of German Literature (4)

A survey of the highlights of German literature. Intended to supplement the work of GRM 370. Conducted in German.

Prerequisite: GRM 370.

GRM 408 Formal Speaking in German (2)

This course is designed to help the students develop a style of language and delivery appropriate to formal speaking situations. Course work will include oral presentations, self-recording, and critique.

Prerequisite: GRM 316.

GRM 413 From the Middle Ages through the Sixteenth Century (2)

A study of additional authors and works from the periods covered by LIT 313. To be taken concurrently with LIT 313. Conducted in German.

Prerequisite: GRM 370.

GRM 414 The Seventeenth Century (2)

A study of additional authors and works from the period covered by LIT 314. To be taken concurrently with LIT 314. Conducted in German.

Prerequisite: GRM 370.

GRM 415 The Eighteenth Century (2)

A study of additional authors and works from the period covered by LIT 315. To be taken concurrently with LIT 315. Conducted in German.

Prerequisite: GRM 370.

GRM 416 The Nineteenth Century: First Half (2)

A study of additional authors and works from the period covered by LIT 316. To be taken concurrently with LIT 316. Conducted in German.

Prerequisite: GRM 370.

GRM 417 The Nineteenth Century: Second Half (2)

A study of additional authors and works from the period covered by LIT 317. To be taken concurrently with LIT 317. Conducted in German.

Prerequisite: GRM 370.

GRM 418 The Twentieth Century (2)

A study of additional authors and works from the period covered by LIT 318. To be taken concurrently with LIT 318. Conducted in German.

Prerequisite: GRM 370.

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 choose to emphasize areas of interest.

Prerequisite: GRM 314.

GRM 480 Seminar in German Literature (4)

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

Prerequisite: Permission of department.

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

Directed individual research and reading designed for advanced German majors.

May be taken for one or more semesters.
Prerequisite: Permission of department.

Hebrew Language

HBR 111-112 First Year Laboratory and Speaking Hebrew (1 each)

A two-semester sequence of practice in listening to and speaking Hebrew, including supervised laboratory work and drill sessions. To be taken only in conjunction with HBR 114-115. HBR 111 must be taken first.

HBR 114-115 Introduction to Hebrew (4 each)

Two-semester sequence of the fundamentals of Hebrew. A beginning course for students who have had no more than one year of secondary-school level preparation. HBR 114 must be taken first.

HBR 211-212 Second Year Laboratory and Speaking Hebrew (1 each)

A two-semester sequence continuing the work of HBR 111-112. To be taken only in conjunction with HBR 214-215. HBR 211 must be taken first.
Prerequisite: HBR 111-112.

HBR 214-215 Second Year Hebrew (4 each)

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

Hindi-Urdu Language

HIUR 111-112 First Year Laboratory and Speaking Hindi and Urdu (1 each)

A two-semester sequence of practice in listening to and speaking both Hindi and Urdu, including supervised laboratory work and drill sessions. To be taken only in conjunction with HIUR 114-115. HIUR 111 must be taken first.

HIUR 114-115 Introduction to Hindi and Urdu (4 each)

A two-semester sequence of the fundamentals of both Hindi and Urdu. HIUR 114 must be taken first.

HIN 211-212 Second Year Laboratory and Speaking Hindi (1 each)

A two-semester sequence continuing the work of HIUR 111-112. To be taken in conjunction with HIN 214-215. HIN 211 must be taken first.
Prerequisite: HIUR 111-112.

HIN 214-215 Second Year Hindi (4 each)

A two-semester sequence continuing the work of HIUR 114-115, with the addition of cultural and literary readings in Hindi. HIN 214 must be taken first.
Prerequisite: HIUR 114-115.

URD 211-212 Second Year Laboratory and Speaking Urdu (1 each)

A two-semester sequence continuing the work of HIUR 111-112. To be taken in conjunction with URD 214-215. URD 211 must be taken first.
Prerequisite: HIUR 111-112.

URD 214-215 Second Year Urdu (4 each)

A two-semester sequence continuing the work of HIUR 114-115, with the addition of cultural and literary readings in Urdu. URD 214 must be taken first.
Prerequisite: HIUR 114-115.

HIUR 390 Directed Readings in Hindi-Urdu (2 or 4)

Directed readings for individual Hindi-Urdu students. May be repeated for credit once.

Prerequisite: Permission of department.

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

Directed individual research and reading designed for advanced Hindi-Urdu students. May be taken for one or more semesters.

Prerequisite: Permission of department.

Italian Language and Literature

**IT 111-112 First Year Laboratory and Speaking Italian
(1 each)**

A two-semester sequence of practice in listening to and speaking Italian, including supervised laboratory work and drill sessions. To be taken only in conjunction with IT 114-115. IT 111 must be taken first.

IT 114-115 Introduction to Italian (4 each)

A two-semester sequence of the fundamentals of Italian. A beginning course for students who have had no more than one year of secondary-school level preparation. IT 114 must be taken first.

**IT 211-212 Second Year Laboratory and Speaking
Italian (1 each)**

A two-semester sequence continuing the work of IT 111-112. To be taken only in conjunction with IT 214-215. IT 211 must be taken first.

Prerequisite: IT 111-112.

IT 214-215 Second Year Italian (4 each)

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

Prerequisite: IT 114-115.

IT 390 Directed Readings in Italian (2 or 4)

Directed individual readings in Italian. May be repeated for credit once.

Prerequisite: IT 215 and permission of instructor.

Japanese Language

JPN 114-115 Introduction to Japanese (4 each)

A two-semester sequence in the fundamentals of Japanese. A beginning course, intended for students who have had no more than one year of secondary-school preparation. JPN 114 must be taken first.

Portuguese Language

**POR 111-112 First Year Laboratory and Speaking
Portuguese (1 each)**

A two-semester sequence of practice in listening to and speaking Portuguese, including supervised laboratory work and drill sessions. To be taken only in conjunction with POR 114-115. POR 111 must be taken first.

POR 114-115 Introduction to Portuguese (4 each)

A two-semester sequence in the fundamentals of Brazilian Portuguese. A beginning course intended for students who have had no more than one year of secondary-school level preparation. POR 114 must be taken first.

POR 211-212 Second Year Laboratory and Speaking Portuguese (1 each)

A two-semester sequence continuing the work in POR 111-112. To be taken only in conjunction with POR 214-215. POR 211 must be taken first.

Prerequisite: POR 111-112.

POR 214-215 Second Year Portuguese (4 each)

A two-semester sequence continuing the work of POR 114-115, with the addition of cultural and literary readings.

Prerequisite: POR 114-115.

POR 390 Directed Readings in Portuguese (2 or 4)

A reading course for students interested in research in a particular Portuguese language area. Especially suited to students in area studies. Bibliography to be determined by students and instructor. Discussions in Portuguese or English. Paper optional. May be repeated for credit.

Prerequisite: POR 215.

Russian Language and Literature**RUS 111-112 First Year Laboratory and Speaking Russian (1 each)**

A two-semester sequence of practice in listening to and speaking Russian, including supervised laboratory work and drill sessions. To be taken only in conjunction with Russian 114-115. Required of majors. RUS 111 must be taken first.

RUS 114-115 Introduction to Russian (4 each)

A two-semester sequence in the fundamentals of Russian. A beginning course for students who have had no more than one year of secondary-school preparation. RUS 114 must be taken first.

RUS 211-212 Second Year Laboratory and Speaking Russian (1 each)

A two-semester sequence continuing the work of RUS 111-112. To be taken only in conjunction with RUS 214-215. Required of majors. RUS 211 must be taken first.

Prerequisite: RUS 111-112.

RUS 214-215 Second Year Russian (4 each)

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

Prerequisite: RUS 114-115.

RUS 216 Basic Russian Conversation (2)

The course is designed to develop the student's ability to organize and express ideas in Russian with a minimum of inhibition.

Prerequisite: RUS 115.

RUS 290 Directed Readings in Russian (2 or 4)

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

Prerequisite: RUS 215.

RUS 314 Russian Grammar Review (2)

Intensive review of Russian grammar.

Prerequisite: RUS 215.

RUS 316 Intermediate Russian Conversation (2)

Provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language.

Prerequisite: RUS 215.

RUS 318 Russian Composition (2)

Intensive practice in written composition. Techniques of textual analysis and exposition are introduced.

Prerequisite: RUS 215.

RUS 320 Applied Linguistics of Russian (4)

Treats the essential linguistic principles which impact on foreign language learning; phonological, morphological, and syntactic interference; sound/spelling correspondences; and language learning, error analysis, and remediation. Language-specific drills and exercises included. Identical with ALS 320.

Prerequisite: RUS 215.

RUS 355 Translating Russian (4)

Translation from Russian to English of a wide variety of materials, ranging from commercial and technical to literary. Individual students may choose the areas they wish to emphasize. Study of both languages will facilitate the conversion of Russian into accurate, idiomatic English.

Prerequisite: RUS 215.

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)

A survey of the highlights of Russian literature. Intended to supplement the work of RUS 370. Conducted in Russian.

Prerequisite: RUS 370.

RUS 400 Special Topics in Language (4)

Special problems or topics selected by the instructor. May be repeated for credit.

Prerequisite: RUS 370 or RUS 318.

RUS 408 Formal Speaking in Russian (2)

This course is designed to help the student develop a style of language and delivery appropriate to formal speaking situations. Course work will include oral presentations, self-recording, and critique.

Prerequisite: RUS 316.

**RUS 413 From The Middle Ages Through The
Sixteenth Century (2)**

A study of additional authors and works from the periods covered by LIT 313. To be taken concurrently with LIT 313. Conducted in Russian.

Prerequisite: RUS 370.

RUS 414 The Seventeenth Century (2)

A study of additional authors and works from the period covered by LIT 314. To be taken concurrently with LIT 314. Conducted in Russian.

Prerequisite: RUS 370.

RUS 415 The Eighteenth Century (2)

A study of additional authors and works from the period covered by LIT 315. To be taken concurrently with LIT 315. Conducted in Russian.
Prerequisite: RUS 370.

RUS 416 The Nineteenth Century: First Half (2)

A study of additional authors and works from the period covered by LIT 316. To be taken concurrently with LIT 316. Conducted in Russian.
Prerequisite: RUS 370.

RUS 417 The Nineteenth Century: Second Half (2)

A study of additional authors and works from the period covered by LIT 317. To be taken concurrently with LIT 317. Conducted in Russian.
Prerequisite: RUS 370.

RUS 418 The Twentieth Century (2)

A study of additional authors and works from the period covered by LIT 318. To be taken concurrently with LIT 318. Conducted in Russian.
Prerequisite: RUS 370.

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 choose to emphasize areas of interest.
Prerequisite: RUS 314.

RUS 480 Seminar in Russian Literature (4)

Study of individual authors, selected themes, or critical problems.
Prerequisite: Permission of department.

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

Directed individual research and reading designed for advanced Russian majors. May be taken for one or more semesters.
Prerequisite: Permission of department.

Spanish Language and Literature**SPN 105-106 Spanish for Doctors and Nurses (2 each)**

A two-semester sequence designed to prepare students in the medical field to communicate more effectively with Spanish-speaking patients. Basic rules of the language, practical phrases, and technical vocabulary are taught. SPN 105 must be taken first.

SPN 111-112 First Year Laboratory and Speaking Spanish (1 each)

A two-semester sequence of practice in listening to and speaking Spanish, including supervised laboratory work and drill sessions. To be taken only in conjunction with SPN 114-115. Required of majors. SPN 111 must be taken first.

SPN 114-115 Introduction to Spanish (4 each)

A two-semester sequence in the fundamentals of Spanish. A beginning course for students who have had no more than one year of secondary-school preparation. SPN 114 must be taken first.

SPN 211-212 Second Year Laboratory and Speaking Spanish (1 each)

A two-semester sequence continuing the work in SPN 111-112. To be taken only

in conjunction with SPN 214-215. Required of majors. SPN 211 must be taken first.

Prerequisite: SPN 111-112.

SPN 214-215 Second Year Spanish (4 each)

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

Prerequisite: SPN 114-115.

SPN 216 Basic Spanish Conversation (2)

The course is designed to develop the student's ability to organize and express ideas in Spanish with a minimum of inhibition.

Prerequisite: SPN 115.

SPN 290 Directed Readings in Spanish (2 or 4)

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

Prerequisite: SPN 215.

SPN 300 Composition and Conversation (4)

Part of overseas study program only. Third- or fourth-year level, depending on student preparation.

Prerequisite: SPN 215.

SPN 313 Spanish Phonetics (2)

Intensive group and individualized 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 Spanish Grammar Review (2)

Intensive review of Spanish grammar.

Prerequisite: SPN 215.

SPN 316 Intermediate Spanish Conversation (2)

SPN 316 provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language.

Prerequisite: SPN 215.

SPN 318 Spanish Composition (2)

Intensive practice in written composition. Techniques of textual analysis and exposition are introduced.

Prerequisite: SPN 215.

SPN 320 Applied Linguistics of Spanish (4)

Treats the essential linguistic principles which impact on foreign language learning: phonological, morphological, and syntactic interference; sound/spelling correspondences; and language learning, error analysis, and remediation. Language-specific drills and exercises included. Identical with ALS 320.

Prerequisite: SPN 215.

SPN 350 Spanish Theatre (2 or 4)

The study and presentation of Spanish plays with intensive drill in pronunciation and intonation.

Prerequisite: Permission of instructor.

SPN 351 Spanish Civilization (4)

Historical approach to Spanish culture and civilization, with particular emphasis

given to geography, social structure, philosophical thought, music, art, and architecture. Part of overseas study program only.

Prerequisite: Sophomore standing.

SPN 355 Translating Spanish (4)

Translation from Spanish into English of a wide variety of materials, ranging from commercial and technical to literary. Individual students may choose the areas they wish to emphasize. Study of both languages will facilitate the conversion of Spanish into accurate, idiomatic English.

Prerequisite: SPN 215.

SPN 370 Introduction to Spanish Literature (4)

A sampling of critical approaches to the study of some masterpieces of Spanish literature. Conducted in Spanish.

Prerequisite: SPN 215.

SPN 380 Survey of Spanish Literature (4)

A survey of the highlights of Spanish literature. Intended to supplement the work of SPN 370. Conducted in Spanish.

Prerequisite: SPN 370.

SPN 408 Formal Speaking in Spanish (2)

This course is designed to help the student develop a style of language and delivery appropriate to formal speaking situations. Course work will include oral presentations, self-recording, and critique.

Prerequisite: SPN 316.

SPN 413 From the Middle Ages through the Sixteenth Century (2)

A study of additional authors and works from the periods covered by LIT 313. To be taken concurrently with LIT 313. Conducted in Spanish.

Prerequisite: SPN 370.

SPN 414 The Seventeenth Century (2)

A study of additional authors and works from the period covered by LIT 314. To be taken concurrently with LIT 314. Conducted in Spanish.

Prerequisite: SPN 370.

SPN 415 The Eighteenth Century (2)

A study of additional authors and works from the period covered by LIT 315. To be taken concurrently with LIT 315. Conducted in Spanish.

Prerequisite: SPN 370.

SPN 416 The Nineteenth Century: First Half (2)

A study of additional authors and works from the period covered by LIT 316. To be taken concurrently with LIT 316. Conducted in Spanish.

Prerequisite: SPN 370.

SPN 417 The Nineteenth Century: Second Half (2)

A study of additional authors and works from the period covered by LIT 317. To be taken concurrently with LIT 317. Conducted in Spanish.

Prerequisite: SPN 370.

SPN 418 The Twentieth Century (2)

A study of additional authors and works from the period covered by LIT 318. To be taken concurrently with LIT 318. Conducted in Spanish.

Prerequisite: SPN 370.

SPN 419 "Third World" Literature of European Expression (2)

A study of additional authors and works from the areas covered by LIT 319. To be taken concurrently with LIT 319. Conducted in Spanish.

Prerequisite: SPN 370.

SPN 455 Translation into Spanish (4)

Translation from English into Spanish of a wide variety of materials ranging from commercial and technical to literary. Individual students may choose to emphasize areas of interest.

Prerequisite: SPN 314.

SPN 480 Seminar in Spanish Literature (4)

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

Prerequisite: Permission of department.

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

Directed individual research and reading designed for advanced Spanish majors. May be taken for one or more semesters.

Prerequisite: Permission of department.

Modern Languages and Literatures in Translation**LIT 251 Topics in Continental European Film (4)**

A study of film as a mirror of European culture and civilization. Topics to be selected by the instructor.

LIT 313-318 are studies of works in all genres by the leading European authors of each period. Some works are treated in greater depth in order to demonstrate the achievements and influence of the leading cultures of the periods. All works will be read in English translation. Class work and papers done in English. See also related courses under individual languages.

LIT 313 From the Middle Ages through the Sixteenth Century (4)

Majors are also required to take the corresponding course in foreign language concurrently.

LIT 314 The Seventeenth Century (4)

Majors are also required to take the corresponding course in foreign language concurrently.

LIT 315 The Eighteenth Century (4)

Majors are also required to take the corresponding course in foreign language concurrently.

LIT 316 The Nineteenth Century: First Half (4)

Majors are also required to take the corresponding course in foreign language concurrently.

LIT 317 The Nineteenth Century: Second Half (4)

Majors are also required to take corresponding course in foreign language concurrently.

LIT 318 The Twentieth Century (4)

Majors are also required to take corresponding course in foreign language concurrently.

LIT 319 "Third World" Literature of European Expression (4)

A survey of literature in a European language of a non-European area from colonial to modern times. Areas treated, e.g. Francophone Africa, French Canada, Brazil, Hispanic America, Anglophone India, will vary on a regular basis. May be repeated once for credit with permission of the department.

LIT 341 Topics in World Drama (4)

Studies in world drama in English translation. Topics to be selected by the instructor. May be repeated for credit with permission of the department. Identical with THA 341.

LIT 342 Continental European Drama I (4)

A study of dramatic literature from the Middle Ages through the eighteenth century. Topics covered include morality play, Renaissance drama of Italy, Spanish baroque theatre, French classical drama, the theatre of the Enlightenment, and Romantic drama. Identical with THA 342.

LIT 343 Continental European Drama II (4)

A study of dramatic literature in the nineteenth and twentieth centuries. Topics covered include drama in the periods of Realism, Naturalism, Symbolism, and Expressionism, as well as recent trends in dramatic literature from Existentialism and the Theatre of the Absurd to the present. Identical with THA 343.

LIT 346 Non-Western Theatre and Dramatic Literature (4)

A study of classical and modern theatre and dramatic literature from one or more areas: China, India, Japan. Identical with THA 346.

LIT 385 Topics in World Literature (4)

A theme of humanistic interest as it has been treated in different literary forms throughout the world and throughout the ages.

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

Instruction in the elements of a spoken or written foreign language such as Arabic, Bengali, Czech, Sanskrit, Catalan, etc. for which no regular course sequence exists here. May be repeated for credit in a different language each time.

Prerequisite: Permission of instructor.

ML 211 Diction for Singers First Semester (4)

A basic course to instruct voice students in the techniques of pronouncing foreign languages. Extensive work with the International Phonetic Alphabet, tapes and native speakers. Italian and Latin will be stressed.

ML 212 Diction for Singers Second Semester (4)

A continuation of ML 211 with special emphasis on German and French. Extensive work with transcription techniques, tapes and native speakers.

Prerequisite: ML 211.

**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 350 Problems of Translation (4)

Lectures, discussion, and practical work on questions of literal vs. free rendition, idiomatic usage, etc. Use of a variety of written forms: letters, pamphlets, articles, historical documents, and literary works. Course given in English and not applicable to major requirements for foreign languages.

Prerequisite: Two years of a foreign language.

**ML 390 Career Orientation and Training in Foreign
Language (2 or 4)**

Focus is on a given nonacademic career in which foreign languages are useful or essential. Open only to majors who have completed third-year requirements and have the permission of the department. May be repeated for credit.

**ML 391-392 Advanced Tutorial in Foreign Language (4
each)**

Advanced work in a language and literature not normally taught at Oakland University. May be repeated for credit.

ML 491 Independent Translation Project (4 or 8)

Directed annotated translation from foreign language into English of a major work in the student's field.

Prerequisite: Courses numbered 355 and 455 in the chosen language and permission of department.

ML 497 Apprentice College Teaching (2 or 4)

Supervised participation in the teaching of an undergraduate course in language or literature, together with discussion of teaching objectives and methods. Does not carry credit toward departmental major.

Prerequisite: Permission of department.

DEPARTMENT OF MUSIC

ACTING CHAIRPERSON: Raynold Allvin

ASSOCIATE PROFESSORS: Raynold Allvin, David Daniels, David DiChiera, Robert Facko, Lyle Nordstrom

ASSISTANT PROFESSORS: James Dawson, Robert Gray, Marvin Holladay, Clifford Pfeil, Flavio Verani

INSTRUCTOR: Paul Furnas

SPECIAL INSTRUCTORS: John Dovaras, Alice Engram

APPLIED MUSIC INSTRUCTORS: Joyce Adelson (piano), Janice Albright (voice), James Allen (jazz drums), Donald Baker (oboe), Mary Bartlett (harp), Joan Berndt (woodwinds), Douglas Cornelsen (clarinet), James Dawson (saxophone), Mario DiFiore (cello), Ronald English (jazz guitar), LeRoy Fenstermacher (viola), Ray Ferguson (harpsichord), Norman Fickett (percussion), Derek Francis (violin), Robert Gladstone (string bass), Robert Gray (voice), Lowell Greer (French horn), Constance Grubaugh (voice), Wesley Jacobs (lower brass), Ann Jones (viola da gamba), Lyell Lindsey (bassoon), Kent McDonald (piano/organ), Harold McKinney (jazz piano), Ervin Monroe (flute), Patricia Nordstrom (early instruments), Edward Pickens (jazz string bass), Robert Reberger (classical guitar), Samuel Sanders (jazz saxophone), Gordon Smith (trumpet), Herbert Williams (jazz trumpet), Barbara Windham (voice)

The Department of Music offers major programs leading to a Bachelor of Arts or Bachelor of Science, and to a Bachelor of Science with a major in Music Education.

The department is committed to the continuous evolution and expansion of the entire music program and to the active participation of students in this evolution. Because the music curriculum is unique in many respects, it is necessary to read the *Music Handbook* (available from the music office), and to consult with a departmental adviser before beginning a music degree program. In addition new students are expected to audition during the first week of classes in order to qualify for their chosen performing medium.

The Certificate System

The Department of Music uses a certificate system which enables majors to devise their own means of study, and to considerable extent, their own course of study. Under this system, levels of achievement are required but, with a few exceptions, courses and course sequences in the department are not. Students may work toward the levels of achievement by taking the courses offered, by independent study, or by combining the two.

To help students plan their course of study and determine their means of study, the music department publishes samples of the certificate examinations. Passing these certificate examinations, rather than following a particular sequence of departmental courses, is the requirement for completing a music major. The examinations are also diagnostic; if students do not achieve the required level of proficiency, the results identify areas they need to study before trying again.

Requirements for the Bachelor of Arts with a Major in Music

Forty-eight credits of music and the completion of four certificates: Theory, Ear Training, Music History and Literature, and Performance.

Requirements for the Bachelor of Science with a Major in Music

A more intensive preprofessional training, including 72 credits of music, and the successful completion of eight certificates: the four required for the B. A. degree plus Performance Minor, Keyboard Proficiency, and two elective certificates. Certificates currently available are: Advanced Theory-Composition, Advanced Music History, Instrumental Studies, Choral Studies, Church Music, Pedagogy, Jazz, Early Music, and Performance Honors. With the approval of the department, students may design individualized certificates.

Requirements for the Bachelor of Science with a Major in Music Education

A program of study for the prospective public school teacher leading to elementary and secondary teaching certification by the State of Michigan. Sixty credits of music (plus intern teach-

ing, education courses, and teaching minor) and the successful completion of eight certificates: Theory, Ear Training, Music History and Literature, Performance Major, Performance Minor, Keyboard Proficiency, Music Education, and either Instrumental Studies or Choral Studies.

Intern teaching in music is normally offered only in the winter semester. Students should plan carefully with their departmental adviser in order to complete all of the certificates by the end of the fall semester in the year in which practice teaching is to be undertaken.

Symbolic Systems Requirement

Music majors must complete a fourth semester foreign language course, or demonstrate equivalent proficiency. German is particularly recommended for those interested in music theory or music history. Italian is recommended for voice students. There are three exceptions to this requirement:

1. Students interested in a field where computer programming may be useful (such as theory/composition) may satisfy this requirement with two semesters of computer programming and two semesters of foreign language.
2. Students in music education may satisfy the requirement with one of the following:
 - a. Two semesters of a foreign language. For voice majors in music education, two semesters of singer's foreign language diction.
 - b. 8 credits in computer programming.
3. For voice majors not in music education, two semesters of a foreign language (or equivalent proficiency), and two semesters of singer's foreign language diction.

Major Standing

Approval for graduation and permission for intern teaching will be given only after a student has received major standing in the Department of Music.

Application to major standing should be made at the end of the sophomore year or after one semester of study at Oakland University if a transfer student.

Student Life and Music

Students may participate in the following music ensembles: Collegium Musicum, Oakland University Singers, University Chorus, Wind Ensemble, Afram Lab Band, University Orchestra,

Opera Workshop, Opera Chorus, University Community Chorus, and Women's Chorus. These ensembles may be taken for academic credit, or as an extra-curricular activity.

COURSE OFFERINGS

ENSEMBLES

MUS 101 University Chorus (1 or 2)

Performance of the large choral masterpieces from all music periods.

MUS 102 Oakland University Singers (2)

Performance of a wide range of choral chamber repertoire from Renaissance to the present.

Prerequisite: Permission of instructor.

MUS 103 Collegium Musicum (1 or 2)

Performance of Medieval, Renaissance, and Baroque music. Present groups include the Renaissance Band, the Collegium Singers, the Renaissance Ensemble, and the Baroque Ensemble.

Prerequisite: Permission of instructor.

MUS 104 Wind Ensemble (1 or 2)

An exploration of the literature written for wind ensembles of various instrumentation. Membership by audition.

MUS 105 Opera Workshop (1, 2, or 3)

Study and experience in various forms of musical theatre. Students will be apprenticed to the Michigan Opera Theatre and will participate in some aspect of its professional productions.

Prerequisite: Permission of department.

MUS 106 University Orchestra (1 or 2)

Orchestral performance of repertoire from the eighteenth, nineteenth, and twentieth centuries. Several concerts per year, on-and off-campus. Accompaniments for solo concertos and various university vocal groups. Membership by audition.

MUS 107 Afram Lab Band (1 or 2)

A study of traditional and contemporary literature for large jazz ensembles within the Afro-American cultural context. Both conceptualization of the material and improvisational techniques will be explored and defined.

MUS 108 University Community Chorus (1 or 2)

A festival-type mixed chorus for citizens of the surrounding communities, possessing prior vocal experience. Performances of varied choral literature. Meets in the evening.

MUS 109 Opera Chorus (1 or 2)

An ensemble which performs in conjunction with the Michigan Opera Theatre.

Prerequisite: Permission of instructor.

MUS 113 Guitar Ensemble (1 or 2)

A study of performance practice and techniques of classical guitar literature involving two or more players.

MUS 114 Women's Chorus (1 or 2)

A choral ensemble of women's voices performing literature of all periods including contemporary.

Prerequisite: Permission of instructor.

MUS 220 Chamber Music (2)

Performing ensemble of various instrumentations. A wide spectrum of appropriate music literature, medieval through contemporary.

MUS 420 Performance Seminar (2 or 4)

The performance of specific works as it is affected by theoretical analysis and stylistic-historical considerations.

Prerequisite: Completion of the theory certificate, MUS 321 and MUS 322 recommended.

APPLIED MUSIC

The following courses, except MUS 190 are taught individually.

MUS 160	Voice (2)
MUS 161	Piano (2)
MUS 162	Organ (2)
MUS 163	Harpsichord (2)
MUS 164	Violin (2)
MUS 165	Viola (2)
MUS 166	Violoncello (2)
MUS 167	String Bass (2)
MUS 168	Flute (2)
MUS 169	Oboe (2)
MUS 170	Clarinet (2)
MUS 171	Bassoon (2)
MUS 172	French Horn (2)
MUS 173	Trumpet (2)
MUS 174	Trombone (2)
MUS 175	Tuba (2)
MUS 176	Timpani (2)
MUS 177	Percussion (2)
MUS 178	Harp (2)
MUS 179	Guitar (Classical) (2)
MUS 180	Renaissance Winds (2)
MUS 181	Viola da Gamba (2)
MUS 182	Lute (2)
MUS 183	Recorder (2)
MUS 184	Saxophone (2)
MUS 189	Performance Honors (2 or 4)

A program of intensive study on the student's major instrument. May only be taken concurrently with one of the individually-taught applied music courses.

Prerequisite: Permission of department.

MUS 190 Rock and Jazz Performance (3)

Study of instruments and/or voices as used in rock ensemble performances, including improvisation, arranging, and composition for such ensembles; organizing and directing; rehearsal techniques; and aesthetic expression in the rock media. Offered summer session.

Prerequisite: Permission of instructor.

- MUS 191 Piano (jazz) (2)
 MUS 192 Guitar (jazz) (2)
 MUS 193 Trumpet (jazz) (2)
 MUS 194 Saxophone (jazz) (2)
 MUS 195 Percussion (jazz) (2)
 MUS 196 Double Bass (jazz) (2)
 MUS 199 Applied Music (2)

This course may be used to increase the number of private lessons in the student's major or minor performing medium. Must be taken in conjunction with one of the applied music courses.

The following applied music courses are group lessons.

MUS 360 Class Voice (2)

Elementary aspects of singing, including diction, breath control, projection, and repertoire.

MUS 361 The Art Song (2)

A survey of vocal literature from Medieval to contemporary. Vocal repertory will be assigned in conjunction with applied voice instruction according to ability level and voice.

Prerequisite: One semester of voice study and permission of instructor.

MUS 365 Class Recorder (2)

MUS 366 Class Viola da Gamba (2)

MUS 367 Class Lute (2)

MUS 368 Class Renaissance Winds (2)

MUS 370 Accompanying (1 or 2)

Designed to help the pianist acquire a knowledge of the basic skills required in the ensemble situation. Representative vocal and instrumental compositions are studied, emphasis is placed on rehearsal techniques and performance.

MUS 371-372-373-374 Keyboard Technique (2 each)

Designed to develop the basic keyboard facility essential to the equipment of any musician and to acquaint him/her with keyboard literature. Music majors planning to register for this course should indicate such intention to the Department of Music at the time of their first registration in the university.

Prerequisite: Permission of instructor.

MUS 375 Keyboard Ensemble Technique (2)

Class instruction in performance and repertory of multiple keyboard literature.

Prerequisite: Permission of instructor.

MUS 376-377-378-379 Jazz Keyboard Practices (2 each)

Development of basic jazz keyboard techniques and skill including jazz chord and rhythm reading, melodic development, and voice leading.

Prerequisite: Keyboard proficiency demonstrated by audition.

MUS 390 Beginning String Class (2)

Class instruction at the beginning level for all string instruments.

MUS 391 Beginning Woodwinds Class (2)

Class instruction at the beginning level for all woodwind instruments.

MUS 392 Beginning Brass Instrument Class (2)

Class instruction at the beginning level for all brass instruments.

THEORY AND COMPOSITION**MUS 111 Beginning Musicianship (4)**

An introduction to the techniques of reading and writing music, notation, pitch, and rhythmic organization, elementary sight singing, dictation, and keyboard familiarity. An elective course for nonmusic majors.

MUS 112 Jazz Improvisation Workshop (2)

A laboratory in performance practice designed to increase improvisational skills indigenous to jazz performance and to systematically identify and use stylistic characteristics of various subcategories of jazz.

MUS 120 Ear Training (2)

Practice in sight-singing; aural analysis and melodic, rhythmic, and harmonic dictation. Classroom drill and programmed lesson material on recorded tapes. Not open to students enrolled in MUS 210.

MUS 210 Introduction to the Materials of Music (5)

The development of perceptive listening techniques and an awareness of musical styles. Solution of musical problems in written work and laboratory sessions. Beginning ear training and the rudiments of tonal harmony.

MUS 293 Composition (4)

Private lessons in composition and composition laboratory. Studies, exercises, and projects concerning creativity and craft in the composing of music. For freshmen and sophomores. May be repeated for credit.

Prerequisite: Permission of instructor.

MUS 310 Harmony (4)

The harmonic practice of the eighteenth and early nineteenth centuries. Composition and analysis in this style.

Prerequisite: MUS 210.

MUS 314 Techniques of Musical Analysis (4)

Techniques of analyzing works of various styles and periods, though with emphasis on tonal music.

Prerequisite: MUS 210, MUS 310 or 315 recommended.

MUS 315 Tonal Counterpoint (4)

The contrapuntal style of the eighteenth century; composition and analysis.

Prerequisite: MUS 210.

MUS 318 Jazz Theory (4)

Techniques of reading and writing music notation-pitch and rhythmic organization in the jazz idiom. Basic compositional and arranging procedures are studied.

Prerequisite: MUS 111 or 210.

MUS 319 Advanced Jazz Theory (4)

Advanced notational practices for jazz ensembles. Emphasis is placed upon techniques of style analysis and idiomatic jazz composition practices.

Prerequisite: MUS 318.

MUS 410 Advanced Harmony (4)

Harmonic practice of the late nineteenth and early twentieth centuries; composition and analysis in this style.

Prerequisite: MUS 310 or 315.

MUS 411 Orchestration (4)

A study of the orchestral instruments and their use in various combinations,

including full orchestra and band. MUS 380, 381, 382, 404, and 412 are related courses.

Prerequisite: MUS 310, 314 or 315.

MUS 412 Twentieth Century Techniques (4)

Compositional practices in the twentieth century; composition and analysis.

Prerequisite: MUS 310, 314 or 315.

MUS 415 Modal Counterpoint (4)

The contrapuntal style of the sixteenth century. Analysis and composition in this style. Offered in alternate years.

Prerequisite: MUS 310, 314 or 315.

MUS 418 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: MUS 318.

MUS 493 Advanced Theory/Composition (4)

Private lessons in composition and composition laboratory: Studies, exercises, and projects concerning creativity and craft in the composing of music. For juniors and seniors. May be repeated for credit.

Prerequisite: MUS 412.

MUSIC HISTORY AND APPRECIATION

MUS 100 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 course for nonmusic majors.

MUS 250 World Music Survey (4)

An introduction to selected music cultures aimed at acquainting the student with a variety of musical functions and styles at various places and times. Emphasis will be on demonstrations by means of live performances by visiting lecturers and guest artists. May be taken twice for a total of 8 credits.

MUS 251 African Music Through Afro-Caribbean Music (4)

A study of African music and its transmutation into Afro-Caribbean music. The concentration in African traditions will be predominantly those of the West African cultures directly related to the transplantation into the Western Hemisphere through slavery.

MUS 252 Afro-American Music (4)

A study of the evolution and development of the music culture of Afro-American people in the United States. An investigation into the origins and cultural roots of music of Afro-Americans and other American music.

MUS 321 Music History and Literature to 1750 (4)

History and literature of music through the Baroque period. Designed primarily for music majors. Offered fall semester.

Prerequisite: MUS 210.

MUS 322 Music History and Literature Since 1750 (4)

History and literature of music from 1750 to the present. Offered winter semester. Designed primarily for music majors.

Prerequisite: MUS 210.

MUS 331 Opera and Music Drama (4)

A study of music drama from the lyric drama of the ancient Greeks to the present. Suggested as an elective for nonmusic majors.

Prerequisite: MUS 210.

MUS 332 Symphonic Music (4)

A study of symphonic music from the preclassical compositions of C.P.E. Bach to the present. Suggested as an elective for nonmusic majors.

Prerequisite: MUS 210.

MUS 333 Choral Music (4)

A study of choral music from the beginnings of choral polyphony in the early fifteenth century to the present. Suggested as an elective for nonmusic majors as well as for music majors.

Prerequisite: MUS 210.

MUS 340 Piano Master Class (2)

Class study of piano literature for stylistic characteristics and technical considerations for proper performance.

Prerequisite: Permission of instructor.

MUS 342 Music in the Baroque Era (4)

A study of significant forms, composers, and nationalistic trends in the Baroque era. Suggested as an elective for nonmusic majors.

Prerequisite: MUS 210.

MUS 345 Twentieth Century Music (4)

A study of significant styles and composers from Debussy to the present. Suggested as an elective for nonmusic majors.

Prerequisite: MUS 210.

MUS 346 The Music of Black Americans (4)

Contributions of the black race to the development of music in the United States. Investigation of the elements of African musical style in Afro-American music. What is Black musical idiom? Folksong — secular and sacred. Formal composition. Popular forms of music. Recommended as an elective for nonmusic majors as well as music majors.

MUS 347 History of Jazz (4)

A survey and historical study of the development of jazz, including significant periods and trends, stylistic analysis, and aesthetic foundations.

MUS 350 World Music Survey II (4)

A continuation of MUS 250. A study of selected cultures designed to find relationships between musical styles and functions in the society. Emphasis will be on demonstrations by means of live performances of visiting lecturers and guest artists.

MUS 421 Survey of Music History and Literature to 1750 (4)

Advanced study of history and literature through the Baroque period of music. The aesthetic values of music of each period will be studied to determine interrelated social and technical concepts.

Prerequisite: MUS 210.

MUS 423 Performance Practices of Music Before 1600 (4)

An investigation of source materials and basic performance practice problems of music from the Middle Ages and the Renaissance. The course will deal with

cantus firmus and related compositional techniques, improvisation, ornamentation, dances and dance forms, musica ficta, musical symbolism, and editorial problems. A different stylistic period will be covered each semester. The course may be repeated a total of three times for credit with the permission of instructor.

Prerequisite: Permission of instructor.

MUS 430 Music of the Religious Service (4)

The philosophical and psychological bases of music in religious services. Service planning and arranging, traditional and experimental, using media of sound projection and multiple sensory methods. The effect of music on sacred texts.

MUS 433 Applied Performance Practices (2)

A course dealing with the practical application of performance practices. One subject will be covered intensively each semester. Included in the broad range of subjects will be such topics as improvisation over ground basses, instrumentation, improvised counterpoint over cantus firmus, dancing, etc.

MUS 490 Introduction to Music Bibliography (4)

A course designed primarily for the music history and literature major. A rigorous and systematic introduction to basic research materials and methodology in musicology.

Prerequisite: MUS 321, 322, and a 400-level theory course.

MUS 491 Directed Research in Music History (4)

A program of directed individual reading and research designed for advanced music history majors.

Prerequisite: MUS 321, 322, and a 400-level theory course.

MUSIC EDUCATION

MUS 149 Music as an Art and as an Elementary School Subject (5)

An introduction to the techniques of listening to music and of teaching music in the elementary school. Begins at a level for the student lacking previous musical experience.

MUS 230 Studies in Choral Music (2 or 3)

Seminar, independent study, and performance of choral music including vocal production techniques, performance practices, and historical foundations. Offered summer session.

MUS 231 Studies in Orchestral Music (2 or 3)

Seminars, independent study, and performance of orchestral music, including study of performance practices, theory, history, and chamber music of various periods. Offered summer session.

MUS 232 Studies in Piano Performance and Literature (2 or 3)

Master class in performance of selected piano works including historical performance practices, and technical considerations. Offered summer session.

MUS 233 Studies in Musical Expansion Through Movement (2 or 3)

Seminars in music theory and composition and in various forms of movement which express sound. Eurythmics and chironomy are studied as well as standard dance forms. Offered summer session.

MUS 245 Field Studies in Music Teaching and Learning (4)

The pedagogical foundations of teaching and learning music via lectures, discussions, simulations, games, and observations. Application of pedagogical theory to develop learning/teaching strategies appropriate to group and individual music instruction.

MUS 380 Instrumental Methods (Strings) (4)

Designed to provide the teacher with basic facilities and pedagogical techniques for the string family.

MUS 381 Instrumental Methods (Woodwinds) (4)

Designed to provide the teacher with basic facilities and pedagogical techniques for the woodwind family.

MUS 382 Instrumental Methods (Brass and Percussion) (4)

Designed to provide the teacher with basic facilities and pedagogical techniques for the brasses and percussion.

MUS 395 Conducting (4)

The basic techniques of conducting, including both instrumental and choral. Participants will elect to emphasize either instrumental or choral technique and will be assigned at least one hour per week as an assistant in university performing groups or public school ensembles.

Prerequisite: MUS 210 and a 300-level theory course.

MUS 401 Teaching Music in Elementary Schools (4)

The organization and content of the general vocal music class in the kindergarten and the first six grades of elementary school. The development of musicality in the child through singing, playing instruments, listening to music, and participating in rhythmic activities. Special emphasis on teaching music reading and ear training to young children.

Prerequisite: MUS 210 and a 300-level theory course.

MUS 402 Teaching Music in Secondary Schools (2)

The content and organization of the complete secondary school curriculum and the role music assumes in it, including place and function of performing groups, general music, music appreciation, music theory, and musical production. Coordination of the music program with other subject areas such as English, social studies, and drama. Selection of appropriate repertoire and development of the school music library.

Prerequisite: MUS 210 and a 300-level theory course.

MUS 403 Conducting Choral Music in Secondary Schools (4)

The organization and conducting of choral music in junior and senior high schools. The development of the adolescent and young adult voice. Problems of selection of repertoire. The selected choir, mixed chorus, glee club, madrigal group, and other small vocal ensembles. Historical style in choral singing, choral festivals, and contests.

Prerequisite: MUS 210 and a 300-level theory course.

MUS 404 Conducting Instrumental Music in Secondary Schools (2)

The organization and conducting of instrumental music in junior and senior high schools. Repertoire, materials, and techniques of secondary school orchestras, bands, stage bands, and ensembles. Pedagogical principles appropriate to indi-

vidual or group instruction.

Prerequisite: MUS 210 and a 300-level theory course.

MUS 441-442 Music Pedagogy (4 each)

Principles of music instruction for the studio teacher. The first semester will be devoted to a survey of the field and to observation. The second semester will be devoted to supervised teaching.

MUS 445 Music Criticism (4)

A study of the techniques of evaluating musical performances and making appropriate verbal and written comments. Includes techniques of writing program notes.

MUS 450 Techniques and Materials of Jazz and Rock Instruction (3)

Repertory and pedagogy appropriate to rock instrumental and vocal ensemble instruction in the public schools. Extraction of aesthetic elements from rock media for use in music appreciation, music theory, and arts and humanities offerings at the secondary school level. Offered summer session.

Prerequisite: Permission of instructor.

MUS 480 Advanced Studies in Choral Conducting and Literature (1, 2, or 3)

A program of independent and seminar work in advanced choral conducting. Emphasis is placed on interpretation of choral literature through research. Opportunities are provided for conducting experience in choral lab groups. Offered summer session.

Prerequisite: Choral conducting experience and one class in music history.

MUS 481 Advanced Studies in Orchestral Conducting and Literature (1, 2, or 3)

A program of independent and seminar work in advanced orchestral conducting. Emphasis is placed on interpretation of orchestral literature through research. Opportunities are provided for conducting experience in a laboratory orchestra. Offered summer session.

Prerequisite: Conducting experience, music history.

MUS 494 Directed Research in Music Education (2 or 4)

A program of directed individual reading and research in technology of, innovation in, and psychology of music instruction.

Prerequisite: Two courses from the series MUS 401, 402, 403, and 404.

MUS 496 Innovations in Music Instruction (3)

Innovative patterns of music instruction. Materials, methods, and curricula appropriate to changing demands made on the public school music teachers. Offered summer session.

Prerequisite: Permission of instructor.

INDEPENDENT STUDY

MUS 295 Independent Study (2, 4, 6, 8, 10, 12)

Normally for freshmen and sophomores.

Prerequisite: Permission of department.

MUS 495 Independent Study (2, 4, 6, 8, 10, 12)

Normally for juniors and seniors.

Prerequisite: Permission of department.

MUS 497 Apprentice College Teaching (2)

Supervises participation in the teaching of an undergraduate course in music, together with discussion of teaching methods and objectives.
Prerequisite: Permission of department.



**DEPARTMENT OF
PHILOSOPHY**

CHAIRPERSON: Richard J. Burke**PROFESSOR:** Richard J. Burke**ASSOCIATE PROFESSOR:** Richard W. Brooks**ASSISTANT PROFESSORS:** Robert J. J. Wargo, Jack Cumbee, Conrad Brunk**INSTRUCTOR:** J. Clark Heston**ADJUNCT PROFESSOR:** Charles E. Morton

Philosophy is one of the oldest, often one of the 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; there are many kinds, each with its own value. Philosophy has always served two functions: the first is speculative, the attempt to formulate illuminating generalizations about science, art, religion, nature, society, and any other important topic; the second is critical, the unsparing examination of its own generalizations and those of others to uncover unfounded assumptions, faulty thinking, hidden implications, and inconsistencies. The study of philosophy is designed to encourage a spirit of curiosity, a sensitivity toward the uses of words, a sense of objective assessment toward oneself as well as others. Competence in philosophy is solid training for advanced study in such fields as law, government, and public administration, as well as the ministry and teaching.

The Department of Philosophy offers programs of study leading to the degree of Bachelor of Arts with a major in Philosophy, modified major, major in Philosophy with concentration in Area Studies, major in Philosophy with concentration in Linguistics, and major in Philosophy with concentration in Religious Studies.

**Requirements for a Liberal Arts
Degree with a Major in Philosophy**

The regular major in philosophy must complete 40 credits in philosophy, including the following:

1. One semester of logic (PHL 102 or 370).

2. One semester of ethics (PHL 103 or 317).
3. Two semesters in history of Western philosophy (PHL 204-7; PHL 204 and 206 are recommended).
4. One semester of Eastern philosophy (PHL 250, 351, 352, or 353).
5. At least 12 credits in courses numbered 300 or above.

A student may substitute other courses for any of the above with the permission of the department chairperson. Students planning to apply for graduate work in philosophy should discuss with the faculty which courses they should take in addition to the above.

Modified Majors

1. **Requirements for the major in Philosophy with a concentration in East Asian Studies or South Asian Studies:** 24 credits in philosophy, including PHL 351 or PHL 353 (for East Asian Studies) or PHL 352 (for South Asian Studies). For requirements in area studies, see page 189.
2. **Requirements for the major in Philosophy with a concentration in Linguistics:** 24 credits in philosophy, including PHL 370 and PHL 475. For requirements in linguistics, see page 100.
3. **Requirements for the major in Philosophy with a concentration in Religious Studies:** 24 credits in philosophy, including PHL 225. For requirements in religious studies, see page 208.

Departmental Honors

Students who think they might qualify for departmental honors should submit an example of their philosophical writing to the chairperson early in the semester before they expect to graduate. This should normally be a substantial paper written in PHL 395, but two or three papers written in other courses will be acceptable. If this work is judged to be of sufficiently high quality, it will be read by the rest of the department, and a conference to discuss it with the student will be arranged. Departmental honors are thus based upon written and oral achievement in philosophy, as well as general performance in courses.

Departmental Course Prerequisites

In general, 100-level courses presuppose no prior college experience, 200-level courses presuppose some, 300-level courses require some prior philosophy courses or related courses in other fields, and 400-level courses are designed primarily for philoso-

phy majors. However, strict prerequisites have been kept to a minimum to encourage nonmajors to take philosophy courses as electives.

COURSE OFFERINGS

PHL 100 Topics in Philosophy (4)

A study of one philosophic topic or problem, to be announced in the schedule of classes for each semester.

PHL 101 Introduction to Philosophical Thinking (4)

Fundamental skills and questions in philosophy, including: how to read and write philosophy; what an argument is, and how to assess one; practice in clarifying concepts, such as absolute and relative, subjective and objective; similarities or differences between philosophy and other activities, such as science, religion, psychology, debating, and bull sessions. Offered every semester.

PHL 102 Introduction to Logic (4)

Study of the relationship between conclusions and statements offered in support of them. Will include some analysis of deductive arguments using some of the apparatus of modern symbolic logic, and may include the study of other kinds of arguments (e.g., analogical, inductive, practical) or of uses of language. Offered every semester.

PHL 103 Introduction to Ethics (4)

Systematic reading and discussion of major ethical analyses of the distinction between right and wrong, good and evil. 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 year.

PHL 204, 205, 206, 207 History of Western Philosophy (4 each)

The development of systematic philosophical thought in the Western world from its beginnings in the Mediterranean region to the present, with extensive readings in the works of major philosophers. The four courses are:

PHL 204 Classical Greek Philosophy (beginnings to Aristotle)

Identical with CLS 204.

PHL 205 Hellenistic and Medieval Philosophy (Stoics to the Renaissance)

PHL 206 Early Modern Philosophy (Galileo to Kant)

PHL 207 Recent Philosophy (Hegel to the present)

Each course may be taken separately, although together they present a continuous development. Offered in sequence, so that each course is offered every other year.

PHL 217 Ethics and the Health Sciences (4)

An examination of some central ethical issues raised in modern health care and research. Among the issues considered are the distribution and allocation of health resources, the right to life and death, human experimentation, "informed consent," eugenics, and the ethics of behavioral control. Offered every year. Recommended: PHL 103.

PHL 219 Aesthetics (4)

Systematic examination of the nature of aesthetic experience and aesthetic judg-

ment in the appreciation of both nature and art. Critical analysis of major theories, old and new, of the creation and structure of works of art, the psychology of aesthetic perception, and the logic and semantics of aesthetic judgment. Offered every other year.

PHL 221 Theories of Justice, Power, and Freedom (4)

The meanings of central concepts in political philosophy, together with several closely related concepts such as those of law, authority, and the like, are examined and analyzed through intensive readings in classic writings of political philosophers and through study of especially crucial problems. Offered every other year.

PHL 225 Philosophy of Religion (4)

Examination of arguments for and against the existence of God, the nature of religious language, the relations between religion and philosophy. Offered every other year. Identical with Rel 225.

PHL 240 Philosophy of Rhetoric (4)

The problem of "objectivity," philosophical justifications for a distinction between persuasion and proof, between propaganda and information, etc., and the consequences of denying such a distinction. Readings will include Plato's *Gorgias*, Aristotle's *Rhetoric*, and recent books and articles on reasoning and communication. Offered every other year. Identical with SCN 310.

PHL 250 Philosophies and Religions of Asia (4)

A study of the major religions of India, China, and Japan with emphasis on their philosophical significance. The course will cover Hinduism, Jainism, Confucianism, Taoism, and Buddhism (with special reference to Ch'an or Zen), and will deal with both the ancient traditions and some modern developments. Offered every year. Identical with REL 250.

PHL 260 American Philosophy (4)

An historical survey of American Philosophy, from its beginnings in New England puritanism to the present day. Emphasis on Peirce, James, and Dewey. Offered every other year.

PHL 317 Recent Theories of Ethics (4)

Theories of ethics and meta-ethics of the twentieth century, with emphasis on the analysis of ethical statements. Typical problems considered include the possibility of supporting ethical claims; the place of reason, emotion, and persuasion in ethics; and ethical relativism. Offered every other year. PHL 103 is strongly recommended as preparation.

PHL 319 Philosophy of Law (4)

A study of the nature of law and legal obligation, with emphasis upon the relation of law, coercion, and morality. Attention will also be given to such issues as the nature of legal reasoning, the legal enforcement of morality, the justifiability of civil disobedience and conscientious refusal, and the justification of punishment. Offered every year. PHL 103 or PS 241 recommended as preparation.

PHL 329 Philosophy of Science (4)

A study of the 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: At least one course in philosophy and one in physical science, either in high school or college. PHL 102 is strongly recommended.

PHL 333 Theories of Knowledge (4)

Critical examination of knowledge claims and of the types of justification given in their support. Typical topics are: scepticism; empiricism; rationalism; the relations between sensations, images, and concepts; meaning and truth; believing and knowing; intuition; and limits of knowledge. Offered every other year.

Prerequisite: One philosophy course. PHL 206 or 357 are recommended.

PHL 340 Metaphysics (4)

An intensive study of selected influential attempts to characterize the basic features of the world. Emphasis on reformulations of metaphysical problems, such as the relation between nature and mind, in the light of modern advances in scientific knowledge and sophistication. Offered every other year.

Prerequisite: One philosophy course.

PHL 351 Chinese Philosophy (4)

Systematic study of the rise and development of Chinese Philosophy with emphasis on the classical (Chou) period, especially Confucianism and Taoism. The impact of Buddhism on Chinese philosophical thinking will be examined. Reference to modern developments as time permits.

Prerequisite: PHL 250 or AS 062.

PHL 352 Indian Philosophy (4)

An examination of the presuppositions and doctrines of India's major philosophic systems. Both Indian logic and metaphysical speculation will be covered. Realistic, idealistic, pluralistic, dualistic, and monistic systems will be considered, with some reference to contemporary developments. Offered every other year.

Prerequisite: PHL 250 or AS 066.

PHL 353 Japanese Philosophy (4)

An examination of Japan's major philosophical and religious systems including Shinto, Pure Land and Zen Buddhism, and Confucianism in the premodern era. The latter half of the course will be the study of the impact of European philosophical thought on the tradition and the emergence of a creative synthesis in the philosophy of Nishida Kitaro.

Prerequisite: PHL 250 or AS 063.

PHL 355 Existentialism (4)

A study of several different types of existentialist philosophy, ranging from Kierkegaard to Sartre and Heidegger. Some attention may also be given to phenomenology. Offered every other year.

Prerequisite: One philosophy course. PHL 207 is recommended.

PHL 357 Contemporary Analytic Philosophy (4)

A study of the main forms of analytic philosophy in Britain and the United States during the twentieth century and of those philosophers most influential in shaping it. Emphasis will be given to the views of language developed by the various movements within contemporary philosophy. Offered every two years.

Prerequisite: One philosophy course. PHL 206, 207, or 333 recommended.

PHL 370 Symbolic Logic (4)

A study of standard first-order symbolic logic, emphasizing quantification theory and including identity theory and logical semantics, and possibly including an introduction to set theory and formal metatheory. The logical system is approached both as a formal system and as a theoretical analysis of human reasoning. Offered every year.

Prerequisite: PHL 102, MTH 121, or CIS 180.

PHL 382 Ancient and Medieval Philosophers (4)

An intensive study of the works of one major philosopher of the ancient or the medieval period. The specific philosopher to be considered will vary from year to year. May be repeated for credit. Offered every other year. Identical with CLS 382.

Prerequisite: One philosophy course. PHL 204 or 205 recommended.

PHL 383 Modern Philosophers (4)

An intensive study of the works of one major philosopher of the period from 1600 to the present. The specific philosopher to be considered will vary from year to year. May be repeated for credit. Offered every other year.

Prerequisite: One philosophy course. PHL 206 or 207 recommended.

PHL 390 Directed Readings in Philosophy (2)

A tutorial, intended primarily (but not exclusively) for majors, in which a student may study a restricted topic of special interest to him/her which is not treated in regular courses, or which he/she wishes to pursue in greater detail. Students should have a clear idea of what they want to study before approaching a faculty member. The department chairperson will often know best which professor the student should approach on a given topic. Graded S/N.

Prerequisite: One philosophy course at Oakland, and permission of department.

PHL 395 Independent Study in Philosophy (4)

Essentially the same as PHL 390, but in addition to reading and consultation with an instructor, the student will be expected to do some writing, normally including a substantial term paper.

Prerequisite: One philosophy course at Oakland and permission of instructor.

PHL 437 Philosophy of Mind (4)

An examination of selected topics or works in the philosophical literature about mind. Some of these topics are: the nature of psychological explanation, the relation of mind and body, thinking, motivation, emotions, action, concepts, remembering, and images. Offered every other year.

Prerequisite: PSY 146 and one philosophy course.

PHL 440 Contemporary Issues in Metaphysics (4)

A study of one or more current issues in metaphysics. The analytic tools of contemporary thinkers will be used in trying to resolve these perennial issues. Offered every other year.

Prerequisite: PHL 102. Additional prerequisites or recommendations may be announced in the schedule of classes.

PHL 465 Topics in Philosophy (4)

A study of one philosophic topic or problem which cuts across the usual divisions of the field. Offered every year. The instructor will announce the topic to be studied in the schedule of classes, and any prerequisites.

PHL 475 Philosophy of Language (4)

An inquiry into problems concerning the philosophical theories of the structure of natural language. Emphasis will be given to views about what meaning is and consideration will be given to the status of appeals to language in solving philosophical problems. Offered every two years.

Prerequisite: PHL 102 or LIN 207. PHL 357 is recommended.

PHL 497 Apprentice College Teaching (4)

A course open to any well-qualified philosophy student who obtains consent of a faculty member to assist in a regular college course. The apprentice should be capable of assuming limited teaching duties.

Prerequisite: Permission of instructor.

DEPARTMENT OF PHYSICS

CHAIRPERSON: Abraham R. Liboff

PROFESSORS: Abraham R. Liboff, John M. McKinley, Ralph C. Mobley, Robert M. Williamson

ASSOCIATE PROFESSORS: Norman Tepley, Paul A. Tipler, W. D. Wallace

ASSISTANT PROFESSORS: Paul M. Doherty, Jeffrey V. Mallow

ADJUNCT PROFESSOR: Gifford G. Scott

ADJUNCT ASSOCIATE PROFESSOR: Norman H. Horwitz

The courses of study offered by the Department of Physics are grouped into two categories — preprofessional career programs and individual courses for those students with broad interests in contemporary human culture. The latter are strongly recommended as experiences in science for students planning to go into a wide range of careers, including law, business, criminology, art history, music, government, library science, and journalism.

Programs of study lead to the degrees of Bachelor of Science, Bachelor of Arts, and Master of Science. There is also a major in medical physics. For requirements, see page 198.

The Bachelor of Science degree major in physics is intended primarily for students who plan to become professional scientists and qualifies them for graduate studies in the physical sciences or research positions in government and industry.

Those students who also complete the medical physics major will be able to seek a career in medical physics or in medicine. The Bachelor of Arts degree with a major in Physics is intended primarily for students with broader interests who desire a less specialized background in physics, as for example, students who plan to take graduate work in a nonscience field or teach in secondary schools. The Bachelor of Arts degree program does not necessarily preclude a professional career in science if the student elects to supplement the program requirements with additional courses.

Those students interested in a career in physics and public policy are urged, early in their undergraduate work, to seek guidance

in either the Department of Physics or the Department of Political Science. Specially selected students, with a double major in Physics and Political Science, may qualify for a senior year internship in Washington or Lansing.

Requirements for the Bachelor of Science Degree with a Major in Physics

1. 30 credits in physics courses at or above the 200 level, including either PHY 371 or PHY 472.
2. PHY 158.
3. 16 credits of mathematics at a level not below MTH 154.
4. 8 credits of chemistry at a level not below CHM 114.
5. 2 credits of computer programing or equivalent experience.

Requirements for the Bachelor of Arts Degree with a Major in Physics

1. 32 credits in physics, of which at least 22 credits must be in courses with numbers above 200.
2. 20 additional credits in chemistry, mathematics, and physics.

Requirements for the Secondary Teaching Major in Physics

ED 244, 245, 428, and 455, in addition to the requirements for the Bachelor of Arts Degree with a major in Physics.

Requirements for the Secondary Teaching Minor in Physics

Twenty credits in physics are required.

Programs in Medical Physics

Students interested in medical physics may earn either the major in medical physics or the B. S. major in physics with a concentration in medical physics. The requirements are the same for both, and are described on page 198.

COURSE OFFERINGS

PHY 101-102 General Physics (4 each)

An introduction to classical and modern physics. Particle mechanics, wave motion, electricity and magnetism, properties of atoms, and atomic systems are considered. Calculus is not required. Pre-medical students fulfill their physics requirements by taking PHY 101-102 and PHY 158, rather than PHY 151-152. Prerequisite for 101: High school algebra and trigonometry or MTH 134.

Each of the following courses is designed for nonscience majors.

PHY 104 Classical Astronomy (4)

Early theories. The universe of Ptolemy and Copernicus, concepts of Brahe, Kepler, and Newton. Light, optical instruments. The earth in the universe. Time and seasons. The moon, its composition, motion, eclipses. Exploration of the solar system.

Prerequisite: High school algebra, some trigonometry desirable.

PHY 105 Modern Astronomy (4)

Stellar astronomy, energy production in the sun and stars. Properties of starlight; classification of stars; radio astronomy; stellar evolution; gravitational collapse; new astronomical objects (quasars, pulsars, radio galaxies); the primeval fireball; and cosmology: origin, history, and future of the universe.

Prerequisite: High school algebra with some trigonometry desirable.

PHY 106 Earth Sciences I (4)

The earth as a planet: orbit, rotation, time, maps, moon, tides, magnetism, atmosphere, solar radiation, meteorology, atmospheric circulation, ocean waters, and world climates.

PHY 107 Earth Sciences II (4)

A continuation of PHY 106: rocks and minerals, earth's interior, continental crusts, continental evolution, historical geology, soil water, weathering, runoff and floods, glaciers, wind, soil, and geologic maps.

PHY 115 Energy (4)

Basic physical principles of energy, sources, transmission, and distribution. Political, economic, and ecological considerations.

PHY 121 Introduction to the Physics of Sensory Systems (4)

The senses as systems which allow us to respond to external stimuli. The senses as detectors or transducers. Special emphasis on visual and auditory systems. Speech production and its acoustic characteristic and recognition.

Prerequisite: High school algebra.

PHY 127 Human Aspects of Physical Science (4)

Designed primarily for the student wishing to explore the interaction between the physical and social sciences. Format will vary to reflect the impact of physics on contemporary life, particularly on politics, economics, and behavior, as well as environment and well-being.

PHY 141 The Physics of Health Care (4)

An introduction to the physical principles underlying the delivery of health care. Scientific systems and method. Data-collecting measurements, problem-solving, applications, physical hazards, radiation dosimetry, and electrical safety.

PHY 147 Elementary Modular Electronics (4)

Practical applications course emphasizing recent developments in modular electronics by means of lectures, demonstrations, and laboratory work. No formal background in electricity or college level mathematics required. Simple circuits, devices such as voltmeters, ammeters, recorders, oscilloscopes, and counters.

Prerequisite: High school algebra.

PHY 169 Physics in Science Fiction (4)

A study of physical principles as revealed by the extent to which science fiction authors observe or violate them. Selected readings, discussions, and written papers. No mathematics required beyond algebra. Graded S/N.

Prerequisite: High school algebra.

The following courses are designed primarily for the physics major and for majors in the other sciences and engineering.

PHY 150 Perspective and Method in Contemporary Physics (4)

A survey of current work in physics: pulsars, neutron stars, black holes, quarks, gravitational radiation, membrane potentials, symmetries in nature, methods in physics, techniques of problem solving, and evolving relation of the physicist to societal problems.

PHY 151-152 Introductory Physics (4 each)

Mechanics, electricity and magnetism, and wave motion. Optics for science, mathematics, and engineering students.

Prerequisite for PHY 151: MTH 154.

Corequisite for PHY 152: MTH 155.

PHY 158 Introductory Physics Laboratory (2)

Prerequisite: High school physics, PHY 101 or PHY 151, and MTH 122 or MTH 154.

PHY 247 Introduction to Scientific Instrumentation (4)

Lecture and laboratory course in the use of various devices and techniques used in scientific research. Oscilloscopes, integrated circuits, operational amplifiers, recorders, scintillation detectors, counters, and scalars. Laboratory experiments are related to health sciences. EKG, EEG, nerve transmission, blood pressure, and radioisotope labeling.

Prerequisite: PHY 101-102 or 151-152 and one laboratory course in any science.

PHY 271 Introduction to Atomic and Nuclear Physics (4)

Basic survey of atomic and nuclear physics: elementary quantum effects, X-rays, the nuclear atom, neutrons, radioactivity, nuclear geophysics, charged particle, absorption, range and energy, nuclear reactions, radiation dosimetry, scintillation detectors, and photomultipliers.

Prerequisite: PHY 101-102 or 151-152.

PHY 304 Astrophysics I (4)

Distribution and dynamics of stars and galaxies. Thermal, nuclear, electromagnetic, and quantum processes in astrophysics; relativity. Offered fall semester.

Prerequisite: PHY 371 and APM 255.

PHY 305 Astrophysics II (4)

Stellar interiors and stellar evolution, stellar atmospheres, interstellar medium, and structure of the universe. Offered winter semester.

Prerequisite: PHY 304.

PHY 306 Observational Astronomy (2)

A lecture/laboratory course utilizing the Oakland Observatory and providing the student with basic training in astronomical techniques.

Prerequisite: PHY 158.

PHY 307 Geophysics (4)

The application of concepts in physics to the study of the earth, gravity, gravitational anomalies, geomagnetism, earth-sun energy, geothermal energetics, nuclear geophysics, geochronology, the earth as an oscillator, and seismic wave propagation. Offered fall semester.

Prerequisite: PHY 107, 151, and 152.

PHY 308 Physical Oceanography (4)

Geographic and hydrodynamic aspects of oceanography. Physical properties of

sea water. Hydrostatics, thermoclines, circulation, and waves. Tidal energetics. Interaction of seas and oceans with the atmosphere, continents, and man. Research techniques in oceanography: underwater acoustics, transducers, and telemetry. Offered winter semester.

Prerequisite: PHY 107, 151, and 152.

PHY 317-318 Intermediate Laboratory (2 each)

Optics, atomic and nuclear physics experiments, shop techniques, vacuum systems, and error analysis.

Prerequisite: PHY 158.

PHY 325 Biophysical Science (4)

A lecture course, emphasizing the physics of living systems: thermodynamics in biology, information theory, theories of aging, biomolecular structure, nerve conduction, radiation biology. X-ray diffraction, scintillation spectroscopy, electron microscopy, laser light scattering, and other physics techniques used in biology.

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.

Prerequisite: PHY 152 and MTH 155.

PHY 341 Electronics (4)

Circuit theory, vacuum tubes, transistors, power supplies, linear amplifiers, feedback, oscillators.

Prerequisite: PHY 152, PHY 158, and MTH 155.

PHY 347-348 Electronics Laboratory (2 each)

A.C. Circuits and electronics experiments.

Corequisite for PHY 347: PHY 341.

PHY 351 Intermediate Theoretical Physics (4)

Topics and techniques common to intermediate level physics courses.

Prerequisite: PHY 152 and MTH 254.

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.

Prerequisite: PHY 152.

Corequisite: MTH 254.

PHY 371 Modern Physics (4)

Relativity, atomic physics, the experimental bases of quantum mechanics, and properties of nuclei.

Prerequisite: PHY 152 and MTH 155.

PHY 381 Electricity and Magnetism I (4)

Maxwell's equations and the experimental laws of electricity and magnetism. Vector calculus, potential theory, boundary conditions on the electromagnetic field vectors, field energy, dielectrics, conductors, and magnetic materials.

Prerequisite: PHY 152 and MTH 254. APM 255 desirable.

PHY 400 Seminar (1)

PHY 405 Special Topics (2, 4, 6)

Prerequisite: Permission of department.

PHY 417-418 Advanced Laboratory (2 each)

Methods of experimental physics. Experiments and projects in all areas of classical and modern physics, with emphasis on research techniques and detailed analysis of experimental data.

Prerequisite: PHY 317-318, 341, and 347-348. Also, PHY 331, 361, and 371 which may be taken concurrently.

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.

Prerequisite: PHY 361 and APM 255.

PHY 441 Physics of Radiology I (2)

Physical principles underlying the practice of radiology. Offered fall semester.

Prerequisite: Departmental approval and PHY 371, 381, and either PHY 247 or 347.

PHY 442 Physics of Radiology II (2)

A continuation of PHY 441. Offered winter semester.

Prerequisite: PHY 441.

PHY 443 Physics of Nuclear Medicine I (2)

Physical principles underlying diagnostic and therapeutic applications of radio-nuclides. Offered fall semester.

Prerequisite: Approval of department, PHY 371, 381, and either PHY 247 or 347.

PHY 444 Physics of Nuclear Medicine II (2)

A continuation of PHY 443. Offered winter semester.

Prerequisite: PHY 443.

PHY 445 Medical Instrumentation (2)

A detailed examination of the scientific instrumentation used in modern medical diagnostic and therapeutic practice. Offered fall semester.

Prerequisite: Approval of department, PHY 371, 381, and either PHY 247 or 347.

PHY 470 Relativity (4)

Special relativity in mechanics and electromagnetism. Introduction to general relativity and gravitation.

Prerequisite: PHY 361, 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.

Prerequisite: PHY 361 and APM 255.

PHY 482 Electricity and Magnetism II (4)

Multipole fields, solutions and Laplace and Poisson equations, electromagnetic waves in insulators and conductors, and the derivation of the laws of optics from Maxwell's equations.

Prerequisite: PHY 381 and APM 255.

PHY 490 Independent Study and Research (2, 4, 6)

Prerequisite: Permission of department.

DEPARTMENT OF POLITICAL SCIENCE

CHAIRPERSON: Edward J. Heubel

PROFESSORS: Sheldon Appleton, Thomas W. Casstevens, Edward J. Heubel, Roger H. Marz, John E. Rue, Carl R. Vann (Political Science and Behavioral Sciences)

ASSOCIATE PROFESSOR: James R. Ozinga

ASSISTANT PROFESSORS: Thomas W. Church, Jr., Brian Coyer, L. Thomas Farley, Vincent Khapoya, John S. Marks, Neuman Pollack

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 explicated by these courses. The general educational aim is to increase the student's awareness and understanding of the broad realm of politics and government. Many students electing this major wish to prepare for careers in public service, law, practical politics, or the teaching of government and social studies. The liberal arts degree is not designed as a vocational degree; however, there are course combinations and selections that are appropriate for students with such defined career objectives.

Departmental honors are conferred upon graduates who successfully complete a PS 490 project and paper at the honors level during their senior year. The student seeking honors should obtain the permission of the department prior to registering for a 490 project. There are opportunities for advanced students to undertake independent readings and research under the PS 390 and PS 490 numbers; these also require pre-enrollment in the department office.

Requirements for the Liberal Arts Degree with a Major in Political Science

The major requires 40 credits in political science including PS 100, 131, and 222. No more than 12 credits of independent study (PS 290, 390, and 490) may be offered toward the satisfaction of the major requirements.

Concentration in Public Management

The Department of Political Science, in cooperation with the School of Economics and Management, offers a concentration in Public Management. Students majoring in political science may satisfy the requirements for both the major and the concentration by completing:

1. PS 100, 131, 205, 222, 251, 253, 351, and two other PS courses.
2. ECN 100, 101, and 301.
3. MGT 200 and 436.
4. MTH 121 and 122.

Other Concentrations and Options

Students in political science may pursue a modified major in Political Science with a concentration in Speech Communication. This program is described on page 180. Students in political science may also pursue a regular major in political science with a number of interdepartmental concentrations described on pages 201-214.

For students who wish to emphasize political science and pursue a secondary education career in social studies, the program information can be found on page 211.

COURSE OFFERINGS

PS 100 Introduction to American Politics (4)

A study of the process of decision-making in the American national government and of the ways in which parties, groups, and individuals work to produce public policy in Congress, the Presidency, and the courts.

PS 110 Contemporary Political Issues (4)

Selected topics dealing with current political issues or public policy problems. The particular topic will be announced at the time of offering. The course is designed for the general student.

PS 115 U.S. Foreign Policy (4)

Study of the foreign policy issues and challenges confronting the United States in the nuclear age in the light of the historical evolution of American diplomacy and in light of the limitations imposed upon foreign policy makers by public opinion and the exigencies of domestic politics.

PS 131 Foreign Political Systems (4)

Analysis of the politics and governmental systems of selected countries in the contemporary world; types chosen range from established constitutional democracies and totalitarian systems, to movements and regimes of new developing nations. Offered fall and winter semesters and spring session.

PS 163 Black Politics (4)

Analysis of Afro-Americans and their relationship to the American political system. Emphasis is given to black political ideologies and thought, political organizations and strategies, and forms of political participation both electoral and nonelectoral.

PS 205 Politics of the Local Community (4)

Study of state and local governments, local political forces, trends in metropolitan and suburban politics, and problems of planning in an age of urbanization. Offered fall semester.
Prerequisite: PS 100.

PS 213 International Politics (4)

Intensive interdisciplinary study of concepts and hypotheses basic to understanding and analysis of relations among nations. The class may engage in a simulation exercise in international conflict and in the analysis of a number of actual cases to gain experience in the application of the hypotheses studied. Offered fall or winter semester.

PS 221 Systematic Political Analysis (4)

An introduction to formal models in political science. Offered fall and winter semesters.
Prerequisite: Sophomore standing.

PS 222 Measurement and Methodology (4)

An introduction to the design of research, the measurement of political variables, and the analysis of data.
Prerequisite: One course in political science.

PS 241 Law and Politics (4)

A broad survey of the function of law and legal systems in the political order. The student will be exposed to the classic jurisprudential, historical, anthropological, and comparative treatments of the subject. Offered fall and winter semesters.
Prerequisite: Sophomore standing.

PS 251 Public Administration (4)

Intensive study of government in action, with special attention to policy formulation, organization, personnel administration, supervision, coordination, administrative control, and accountability. Offered winter semester.
Prerequisite: PS 100.

PS 253 Political and Economic Analysis of Public Policy (4)

This course treats normative and empirical analysis of problems in political economy as a technique for studying public policy. Topics covered include current U.S. budgets, agricultural policy, environmental policy, and classical problems of political economy such as Arrow's Impossibility Theorem and Pareto optimality.
Prerequisite: PS 100.

PS 271 American Political Thought (4)

The writings of prominent American thinkers and statesmen whose ideas have influenced the development of the American polity will be considered. Selected texts by European thinkers may also be examined with a view to their influence on America.
Prerequisite: PS 100.

PS 272, 273 Western Political Thought (4 each)

A two semester survey of Western political philosophy. Each major philosopher, from Plato to Marx, is placed in his political setting so as to show the interrelationships between philosopher's environment and his/her ideas. Offered fall and winter semesters.

PS 277 Communism (4)

The development of revolutionary socialism from early Marxism to the present day. The course analyzes the relevance of Marxism to a variety of contemporary revolutionary situations. Offered fall semester.

PS 290 Political Science Laboratory* (2 or 4)

From time to time collateral, independent work of various kinds will be offered to students in conjunction with regular departmental courses. These opportunities may be limited to students enrolled in particular courses and may be restricted to political science majors. Such work may be taken more than once. Prerequisite: Permission of instructor.

PS 301 American Presidency and the Executive Process (4)

A study of presidential politics, decision-making, and leadership in the American political system. Offered winter semester. 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. Offered fall semester. Prerequisite: PS 100.

PS 313 International Law (4)

An intensive examination of the principles and organization of modern international law. Attention is given to the growing field of ocean resource, outer space, environmental protection, and information law. Prerequisite: PS 213.

PS 320 Laboratory in Empirical Methods (4)

An examination of and training in empirical methodology. Topics covered include social science data management, two or three batch and conversational statistical packages, some computer programing, some statistics not covered in PS 222, and different modes of empirical political science research. Prerequisite: PS 222.

PS 330 Comparative Political Theory (4)

An examination of the various approaches and theories that are used in comparative political research, including theories of development and modernization. Prerequisite: PS 131 and PS 222.

PS 331 The Political Systems of Britain and Canada (4)

An analysis and comparison of British and Canadian politics, parties, parliament, politicking, and public policy. Prerequisite: PS 131.

PS 332 Politics of the Middle East and North Africa (4)

Examination of the politics of the Middle East and North Africa. The cultural and historical factors that influence the contemporary politics of the area will be emphasized. Topics include religion, social structures, economic problems, the impact of the West, and the Arab-Israel conflict. Prerequisite: PS 131.

PS 333 African Politics (4)

Examination of politics of selected African states. The primary focus of the course is on political development. Attention is given to traditional and colonial

politics as well as to individuals, groups, and institutions that make up the present political process. Offered winter semester.
Prerequisite: PS 131.

PS 334 Political Systems of Southern Asia (4)

Examination of the elements of political life in India and Pakistan. The cultural, historical, social, and economic factors that influence contemporary political institutions; the issues and the processes by which political conflicts are resolved will be studied. Politics in Ceylon, Nepal, and Himalayan border kingdoms may also be considered.
Prerequisite: PS 131.

PS 335 Politics of Latin America (4)

Analysis of the political systems of Latin America 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. Offered fall semester.
Prerequisite: PS 131.

PS 337 The Soviet Political System (4)

A descriptive analysis of the Soviet society as a political system: its origins, institutions, and political behavior. Trends and developments in the system will be assessed, and comparisons with other political systems will be undertaken. Offered winter semester.
Prerequisite: PS 131.

PS 338 Modern Chinese Politics (4)

An analysis of the rise of social movements in China after the breakdown of the traditional order; the emergence of the Nationalist and Communist regimes and the triumph of the Communists; and the political processes of the People's Republic of China, emphasizing the role of elites in policy formation, ideology, mass support, and the exercise of central power. Offered fall semester.
Prerequisite: PS 131.

PS 339 Sino-Soviet Relations (4)

The relations between the People's Republic of China and U.S.S.R., emphasizing the reaction to the Russian experience by the leaders of China and the split between the U.S.S.R. and the People's Republic. Offered winter semester.
Prerequisite: PS 131.

PS 342 American Legal System I: Principles and Processes (4)

A study of the various institutions of the American legal system with emphasis on the specific policy-making tools of the judicial process.
Prerequisite: PS 100.

PS 343 American Legal System II: Constitutional Law and Civil Liberties (4)

A broad survey of American constitutional law. Special emphasis will be placed on civil rights and liberties in America as defined and protected by the judiciary. Primary emphasis on United States Supreme Court decisions dealing with freedoms of speech, religion, and privacy; rights of the accused; racial, ethnic, and sexual discrimination. Offered winter semester.
Prerequisite: PS 241 or 343.

PS 351 Public Budgeting (4)

A study of the budgeting process in complex institutions, with special reference

to various modern budgetary systems. Stresses the use of control over flow of funds as an instrument in control of policy.

Prerequisite: PS 251.

PS 362 Electoral Processes (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 and 222.

PS 365 Public Opinion (4)

A study of the formation, communication, and change of the politically relevant opinions of individuals and groups in modern societies and of the ways in which these opinions lead to political actions. Offered fall semester.

Prerequisite: PS 100 and 222.

PS 381 Formal Political Theory (4)

The role of theory in the study of politics; the use of formal models and systems theories; examination of the problems of developing a science of politics and its relationship to value and policy questions.

Prerequisite: PS 221.

PS 390 Directed Readings* (2 or 4)

Readings not normally covered in existing course offerings. Directed on an individual basis.

Prerequisite: Permission of department and instructor.

From time to time, the department offers seminar courses at the advanced level in which a topic or problem is studied in depth, and in which individual student research of a significant sort 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 at the time the seminars are offered. All 400-level courses require permission of the department before registration.

PS 400, 401 Seminar in Public Policy (4 each)

PS 410, 411 Seminar in World Politics (4 each)

PS 420, 421 Seminar in Political Behavior (4 each)

PS 430, 431 Seminar in the Comparative Study of Political Systems (4 each)

PS 440, 441 Seminar in Public Law (4 each)

PS 480, 481 Seminar in Political Theory (4 each)

PS 490* Special Topics or Directed Research (2, 4, or 8)

Offered every semester.

*Students are limited to 8 credits of independent study (PS 290, 390, or 490) in any one semester.

DEPARTMENT OF PSYCHOLOGY

CHAIRPERSON: Boaz Kahana

PROFESSORS: Edward A. Bantel, David C. Beardslee, Harvey Burdick, Donald C. Hildum, Boaz Kahana, Donald D. O'Dowd

ASSOCIATE PROFESSORS: Jean S. Braun, Daniel N. Braunstein, Max Brill, Kenneth H. Coffman, David G. Lowy, Ralph Schillace, David W. Shantz, Irving Torgoff

ASSISTANT PROFESSORS: Robert S. Fink, Algea O. Harrison, Allen K. Hess, Leonard Ireland, Lawrence G. Lilliston, Virginia E. O'Leary, Dean G. Purcell, F. Edward Rice, Amos Spector, David M. Stonner, Harold Zepelin

The Department of Psychology curriculum is structured to meet the needs of four types of students interested in majoring in psychology: the student who plans to find employment, after obtaining his/her bachelor's degree, rather than continuing with formal education; the student who plans to go to graduate school in psychology; the student who plans to enter a field other than psychology that requires further formal training; and the student who has a general interest in psychology. A pamphlet, *Majoring in Psychology at Oakland University*, is available through the department office. The student majoring in psychology or contemplating doing so should obtain a copy of this pamphlet which offers suggested programs of study.

Requirements for the Liberal Arts Major in Psychology

Effective with the fall semester, 1975, the requirement is 36 credits in psychology, including PSY 146, 250, and three courses at the 300 and/or 400 level.

The department currently offers courses involving practicum experiences in applied settings in such areas of specialization as gerontology and criminal psychology. Full concentrations in these areas are contemplated.

Modified Majors and Other Options

Modified majors in psychology with concentrations in linguistics or speech communication are available. The linguistics concen-

tration requires 24 credits in psychology, including PSY 146, 250, and at least two 300-level courses. For the modified major with a speech communication concentration, see page 180.

The department also offers a Master of Arts degree in Clinical Psychology or in Developmental Psychology. For details, see the *Oakland University Graduate Study Catalog, Volume I*.

Honors Program in Psychology

The Honors Program in Psychology is available to all psychology majors who meet the prerequisites. The program provides the psychology major with the opportunity to take small, specially designed courses, to do independent work, to work closely with various members of the faculty, and to be identified as an Honors Student in Psychology. This program is particularly suitable for those students who plan to pursue graduate work in psychology. Only honors students are eligible for departmental honors.

To be eligible for the Honors Program, a student must earn a grade of 3.5 or better in an undergraduate experimental course (PSY 321, 330, or 356).

In order to complete the Honors Program a student must complete:

1. PSY 390.
2. One course from PSY 490, 491, 492, or 493.
3. An independent project in PSY 494 and 495. It is the responsibility of the student to find a faculty member to sponsor and supervise the honors project.

COURSE OFFERINGS

PSY 130 Introduction to Social Psychology (4)

Observational, experimental, and analytical techniques for the objective study of relationships among people and the effects of these relationships upon the participants. The analysis of social functions and roles; the development and change of attitudes, beliefs, and values; the influence of social groups on the individual; and the development of personality in relation to the social milieu.

PSY 146 Foundations of Contemporary Psychology (4)

The basic processes studied by psychologists. Topics include the central psychological processes of learning, perceiving, remembering, thinking, emotion, motivation, etc. Also looks at the comparative and physiological approaches to these topics.

PSY 200 through 209 Topics in Psychology (4 each)

Offered occasionally on special topics of current interest that are not listed among regular offerings.

PSY 215 Psychological and Field Studies in Education (4)

Identical with ED 245.

PSY 220 Abnormal Psychology (4)

The psychodynamics of abnormal behavior, clinical types, methods of investigation and principles of psychotherapy.

Prerequisite: PSY 130 or 146.

PSY 221 Coping Strategies in the Normal Personality (4)

Characteristics of healthy personality in the following dimensions: need gratification, reality contact, interpersonal relationships, and growth. Coping strategies in a crisis situation.

Prerequisite: PSY 130 or 146.

PSY 222 Tests and Measurement (4)

Theories of measurement and evaluation. Examination of construction and interpretation of tests of ability, achievement, interests, and special attitudes. Objective tests of personality.

Prerequisite: PSY 146.

PSY 223 Psychopathology of Childhood (4)

The psychopathology of children and adolescents, emphasizing dynamic and cognitive-perceptual-motor variables.

Prerequisite: PSY 146.

PSY 231 The Psychology of Social Issues (4)

Psychology's contribution to the understanding of selected issues of current social concern such as urban stress, jury selection, the effects of television on violence, etc.

Prerequisite: PSY 130 or 146.

PSY 232 Psychology of Women (4)

Psychological variables that repeatedly differentiate women from men will be examined in light of existing psychological theory and research. Topics will include sex differences in personality and learning ability, dependence, passivity, identification, role conflict, and achievement motivation.

Prerequisite: PSY 130 or 146.

PSY 241 Individual Differences (4)

Intellectual, motivational, and personality differences associated with age, social roles, sex, ethnic and racial groups, and social class.

Prerequisite: PSY 130 or 146.

PSY 246 Applied Psychology (4)

The areas in which psychology has been put to work, such as childrearing, teaching and training methods, personality and aptitude testing, sensitivity training, human engineering, environmental design, and animal behavior.

Prerequisite: PSY 130 or 146.

PSY 250 Principles of Psychological Research (4)

General introduction to the design, function, and interpretation of research in the social sciences. Aimed at providing students with preparation necessary to evaluate the empirically based content of psychology.

Prerequisite: PSY 146.

PSY 252 Statistics and Research Design (4)

The principal statistical procedures commonly employed in research in the social sciences. Emphasis is given to the design of experimental studies, problems of sampling and control of variables, and psychological measurement. Two years of high school mathematics are recommended.

Prerequisite: PSY 146.

PSY 271 Child Development (4)

Theory and principles of the development of the child from birth to puberty. Selected topics include: maturational processes, learning and motivation, intelligence, self concept, and child-rearing practices.

Prerequisite: PSY 130 or 146.

PSY 273 Psychology of Adolescence and Youth (4)

The adolescent experience and the transition to adulthood, as influenced by physiological change, intellectual growth, and social attitudes, form the subject matter of this course. Among the topics considered are the quest for identity, juvenile delinquency, drug use, the youth culture, relationships between generations, and vocational choice.

Prerequisite: PSY 130 or 146.

PSY 274 Psychology of Adulthood and Aging (4)

Psychological change, from young adulthood to death, is the subject matter of this course. Potentials for psychological growth and sources of crisis are considered along with such topics as changes in intellectual processes, attitudes towards aging, retirement, and the needs of the aged.

Prerequisite: PSY 130 or 146.

PSY 300 through 309 Topics in Psychology (4)

These courses will be offered occasionally by faculty members wishing to explore special topics of current interest which are not listed among regular offerings, either on their own initiative or at the request of a group of students.

Prerequisite: Permission of instructor.

PSY 320 Theories of Personality (4)

Major theories of human personality development and principles of personality theory building.

Prerequisite: PSY 146 and two other psychology courses.

PSY 321 Experimental Psychopathology (4)

Basic philosophy of science; issues in design and methodology of psychological research with application to abnormal behavior. Experience in data collection.

Prerequisite: PSY 220 and 252.

PSY 322 The Psychology of Crime and Delinquency (4)

The nature of criminal behavior. Various psychological theories regarding the origins of delinquency and alternative approaches to dealing constructively with criminal behavior.

Prerequisite: PSY 146 and 220.

PSY 323 Community Psychology (4)

Historical antecedents, contemporary roots, and basic concepts of the community psychology movement will be described. The community approach to problems of emotional disorder, suicide, poverty, community organization, and community education will be examined.

Prerequisite: PSY 220.

PSY 330 Research Methods in Social Psychology (4)

Theory and techniques of survey research, field experiments, laboratory experiments, and field studies will be covered.

Prerequisite: PSY 130 or 146.

PSY 332 Attitudes and Opinions (4)

Nature and function of attitudes, relations between attitudes and personality,

and attitudes and behavior. Attitude measurement, formation, and change processes.

Prerequisite: PSY 130 and 250.

PSY 333 Organizational Behavior I (4)

Identical with MGT 330.

PSY 334 Organizational Behavior II (4)

Identical with MGT 331.

PSY 335 Psycholinguistics (4)

Identical with ALS 335.

PSY 340 History and Systems of Psychology (4)

How psychology came to be as it is. From the beginning to the great experiments and the schools of psychology. From the schools to World War II. From World War II to the present. Men, experiments, theories.

Prerequisite: PSY 146 and two psychology courses other than PSY 252.

PSY 350 Motivation (4)

The nature of physiological and behavioral mechanisms that control an organism's reaction to the demands of its environment.

Prerequisite: PSY 146.

PSY 351 Learning, Memory, and Thinking (4)

Approaches to learning, memory, and thinking processes. Includes such topics as conditioning, problem solving, verbal behavior, storage systems, and organization.

Prerequisite: PSY 146.

PSY 352 Sensation and Perception (4)

Approaches to the basic sensory systems and perceptual processes.

Prerequisite: PSY 146.

PSY 353 Cognitive Psychology (4)

Information processing, selective attention, short and long term memory models, theories of forgetting, verbal learning, and psycholinguistics.

Prerequisite: PSY 146.

PSY 354 Animal Behavior (4)

Methods of observing, measuring, and recording the behavior of animals, including man. Theories of the ethologist are contrasted with the views and techniques of contemporary comparative psychologists. Focuses on animal aggression, territoriality, communication, and social behavior, primarily from an evolutionary viewpoint.

Prerequisite: PSY 146.

PSY 355 Physiological Psychology (4)

Anatomy of the human nervous system and techniques employed to discover relationships between brain and behavior. The physiological bases of emotion, motivation, sleep, learning, and sensory processes are discussed as well as pathology of the human central nervous system and the effects of human psychosurgery.

Prerequisite: PSY 146.

PSY 356 Experiments in the Basic Processes (4)

Issues in learning, perception, thinking, physiological psychology, and animal behavior with independent research project.

Prerequisite: PSY 252 and PSY 351 or 352.

PSY 371 Work with the Elderly I (2 or 4)

Comprehensive empirical and theoretical background on physiological, psychological, and social aspects of aging. Lectures and readings integrated with placement in field settings.

Prerequisite: PSY 130 or 146 and one other course in psychology or sociology.

PSY 372 Work with the Elderly II (2 or 4)

Field work is combined with independent readings in gerontology to develop in-depth knowledge of particular area of specialization.

Prerequisite: PSY 371 and prior permission of instructor.

PSY 390 Honors Proseminar (4)

In-depth review of selected theoretical and empirical topics in major areas of specialization in psychology (clinical, developmental, experimental, and social).

Prerequisite: Admission to Department of Psychology Honors Program.

PSY 430 Advanced Social Psychology (4)

Critical study of selected areas in social psychology such as attribution theory.

Prerequisite: Permission of instructor.

PSY 435 Psychology of Communication (4)

Selected topics from among the following: the nature and origin of language; structural syntactics and semantics and their psychological significance; translation; persuasion; and mass communication, including its sources, determinants, organization, messages, audience, and effects.

Prerequisite: PSY 130 or 146.

**PSY 480 through 485 Readings and Research Projects
(2 or 4 each)**

Individual readings or laboratory research on a topic mutually agreed upon by a student and a member of the psychology faculty. (The course numbers will be rotated from one term to another.)

Prerequisite: Permission of instructor.

PSY 490 Honors Seminar—General Experimental (4)

Intensive examination of theoretical and empirical issues in general experimental psychology. Emphasis on theory construction, criticism, and research methodology.

Prerequisite: PSY 390.

PSY 491 Honors Seminar—Developmental (4)

Intensive examination of theoretical and empirical issues in developmental psychology. Emphasis on theory construction, criticism, and research methodology.

Prerequisite: PSY 390.

PSY 492 Honors Seminar—Clinical (4)

Intensive examination of theoretical and empirical issues in clinical psychology. Emphasis on theory construction, criticism, and research methodology.

Prerequisite: PSY 390.

PSY 493 Honors Seminar—Social (4)

Intensive examination of theoretical and empirical issues in social psychology. Emphasis on theory construction, criticism, and research methodology.

Prerequisite: PSY 390.

PSY 494, 495 Honors Independent Studies (4 each)

Independent honors research projects in the areas of clinical, developmental, experimental, and social psychology, respectively.

Prerequisite: PSY 390 and one of the 490-493 Honors Seminar Series.

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

CHAIRPERSON: Nahum Z. Medalia

PROFESSORS: Nahum Z. Medalia, Jesse R. Pitts, Philip Singer

ASSOCIATE PROFESSORS: Judith K. Brown, Harry Gold

ASSISTANT PROFESSORS: Peter J. Bertocci, William E. Bezdek, James W. Dow, Karen Sacks, Jacqueline R. Scherer

INSTRUCTORS: Edward J. Slawski, Richard E. Senter, Richard B. Stamps

ASSOCIATED FACULTY: Gayle H. Partmann, assistant professor (Linguistics)

The Department of Sociology and Anthropology participates in several degree programs, each of which is designed to provide the maximum degree of flexibility to serve the student's interest while, at the same time, providing the substantive background required to prepare the student for a career in his/her chosen field.

Requirements for Majors in Sociology and Anthropology

1. **Major in Sociology:** SOC 100 and 36 other credits in sociology. Of these, 8 may be taken in anthropology.
2. **Major in Anthropology:** AN 101, 102, and 32 other credits in anthropology. Of these 8 may be taken in sociology. LIN 301 may be substituted for one departmental course.
3. **Major in Sociology and Anthropology:** SOC 100, AN 101, AN 102, 16 additional credits in sociology, and 12 additional credits in anthropology.

Requirements for Modified Majors

1. **Modified Major in Anthropology with Concentration in Area Studies:** 24 credits in anthropology, including AN 101 and 102, and 20 credits in an area studies concentration.
2. **Modified Major in Anthropology with Concentration in Linguistics:** AN 101 and 102, 12 additional credits in anthropology, and 20 credits in linguistics. For linguistics requirements, see page 100.

3. **Modified Major in Sociology with Concentration in Linguistics:** 24 credits in sociology, including SOC 100 and 412, and 20 credits in linguistics. AN 204 may be substituted for one course in sociology. For linguistics requirements, see page 100.
4. **Modified Major in Sociology and Anthropology with Concentration in Speech Communication:** 24 credits in sociology and anthropology, including SOC 100 or AN 102, and 16 credits in speech communication to include SCN 201 and 371.
5. **Modified Major in Sociology and Anthropology with Concentration in Religious Studies:** 24 credits in Sociology and Anthropology to include SOC 100 or AN 102, and 20 credits in Religious Studies. AN 271 and SOC 305 may be counted toward either the religious studies requirement or the sociology and anthropology requirement.

COURSE OFFERINGS IN ANTHROPOLOGY

AN 101 Evolution of Man and Culture (4)

Introduction to physical anthropology and archaeology as applied to the evolution of man and culture. Stress placed upon man's development in adaptation to his environment.

AN 102 Man in Culture and Society (4)

Introduction to cultural and social anthropology with emphasis placed upon the continuing adaptation of man to his environment and especially the interactions among culture, society, and natural environment.

AN 200 Social Anthropology (4)

Examines social structure and social organization in anthropological perspective. Entails the study of economic, political, religious, and kinship systems in the social life of man.

Prerequisite: AN 102.

AN 204 Communication, Ethology, and Man (4)

The course will cover such topics as verbal and nonverbal communication, culture or tradition, spatial relationships, sexuality, ritual, group structure, and the definition of social situations.

AN 221 Subsistence and Technology in Non-Industrial Society (4)

Subsistence activities and technologies in relationship to the natural and social setting, adaptation of man to his environment, the variations in that adaptation, and the accommodation of other aspects of culture to the food quest. Identical with ENV 221.

Prerequisite: AN 102.

AN 251 Peasant Society and Culture (4)

The peasant as a social type; his role in the making of great civilizations; and forces for change in peasant societies, especially in the non-Western world.

Prerequisite: AN 102.

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 the transformation of social systems by religious movements. Identical with REL 271.

Prerequisite: AN 102 or sophomore standing.

AN 276 Language in Culture (4)

Identical with ALS 276.

AN 281 Primate Behavior (4)

Various bio-social factors which aid the nonhuman primates in their adaptation to the environment, implications for human behavior, classroom discussions, and field studies.

Prerequisite: AN 101.

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 305 Child Rearing in Cross-Cultural Perspective (4)

Child rearing practices and their educational role, the rearing of nonhuman primate young, and the socialization practices of certain western subcultures and nonwestern societies.

Prerequisite: AN 102.

AN 310 Culture and Personality (4)

Theories of psychological anthropology on culture and personality and psychological phenomena viewed in relationship to culture and from a cross-cultural perspective.

Prerequisite: AN 102.

AN 336 Sex Roles (4)

Comparative analysis of sex roles and status in tribal and class societies. Modern anthropological and sociological theories on sex role and status differences.

Prerequisite: SOC 100 or AN 102.

AN 340 Culture and Personality in Indian Society (4)

Personality in Indian culture; the persistence of basic Hindu personality and cultural communities.

Prerequisite: AN 310, AC 101, or AC 102.

AN 341 Peoples and Cultures of the Mediterranean (4)

A comparative study of several rural communities around the Mediterranean basin in terms of certain key concepts such as "honor and shame," "cult of saints," "evil eye," and the "folk-urban dichotomy." These themes will be discussed within their national and modern contexts.

Prerequisite: AN 102.

AN 352 Survey of African Peoples and Cultures (4)

A general survey of the geography, history, economy, society, religions, and political systems of selected indigenous peoples of Africa. Part of the course will cover the events of the period of European contact.

Prerequisite: AN 102.

AN 353 Anthropology of North Africa and the Middle East (4)

The Arab peoples and their neighbors, emphasizing socio-cultural systems,

group relations, social change, and the role of Islam as a cultural unifier.
Prerequisite: AN 102.

AN 361 Peoples and Cultures of India (4)

A survey of contemporary society and culture on the Indian subcontinent, with special focus on India, Pakistan, and Bangladesh; emphasis on social structure, folk religion, and the problems of socio-cultural change.
Prerequisite: AN 102 or AS 066.

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: AS 062.

AN 370 Archaeology of Mesoamerica (4)

The pre-Hispanic culture of Mexico and Guatemala, the Aztecs and Mayas, and their neighboring and derivative cultures. Detailed discussion of the major archaeological sites.
Prerequisite: AN 101 and 102.

AN 371 Cultures of Mesoamerica (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.

AN 372 Indians of South America (4)

A survey of the cultures 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.

AN 380 Archaeology of North America (4)

A survey of the evolution of native North America 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 Indigenous Peoples of North America (4)

The culture of certain North American Indian societies and Eskimo societies and their adaptation to western contact.
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 such topics as physical and physiological variation (sex, race, and age), climatic adaption, and population genetics.
Prerequisite: AN 101.

AN 383 Methods in Anthropological Archaeology (4)

Instruction and field research, including site location, excavation and artifact analysis, and conservation. May be repeated once for credit.
Prerequisite: AN 101.

AN 400 History of Anthropological Theory (4)

Traces the historical development of theory in anthropology; emphasis on recurring problems of theoretical and empirical import to the growth of the discipline as a whole.
Prerequisite: AN 200.

AN 415 Cognitive Anthropology (4)

Study of culture as it is perceived by the people who live it, rather than by an outside observer. Includes ethnoscience, ethnographic semantics, and systematic ethnography. Involves work with symbolic systems.

Prerequisite: AN 102.

AN 420 Ethnopsychiatry (4)

The socio-cultural context of mental illness and the forms of its institutional and medical care; relation between family relationships, child-rearing practices, and mental illness; and the physician-patient and indigenous healer-patient relationship.

Prerequisite: Three sociology or anthropology courses.

AN 430 Systems of Wealth and Power in Anthropological Perspective (4)

The 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 460 Problems of Social and Economic Change in Developing Societies (4)

The role of anthropology in programs of socio-economic development in non-Western areas. Review of the activities of the United Nations and of national governments.

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: Written permission of instructor.

AN 490 Current Problems in Anthropology (2 or 4)

An advanced seminar in which a topic or problem is studied in depth. Each seminar requires students to do independent readings and writing.

Prerequisite: Written permission of instructor.

Course Offerings in Sociology

SOC 100 Introduction to Sociology (4)

An introduction to the basic principles, concepts, and theories of sociology relating to the study of man as a participant in group life. Particular attention is given to social structure, cultural processes and patterns, socialization and personality development, and social stratification.

SOC 200 Introduction to Sociology of Education (4)

The public school system in contemporary life, emphasizing unionization, bureaucratic structure and informal organizations within the school, and the special problems of minority groups. Primarily for secondary teaching majors.

SOC 203 Social Statistics (4)

The interpretation of social data by quantification and statistical reasoning. Considers basic descriptive techniques such as percentages, correlations, and measures of dispersion; basic ideas of statistical inference; basic properties of the binominal and normal distributions; and the more common nonparametric statistics used in analyzing survey data.

Prerequisite: Two years high school mathematics.

the stress of adolescence and the specific social situations; methods for preventing delinquency or its recurrence.

Prerequisite: SOC 320.

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 studied include the defenses against corruption and the containment concept of police.

Prerequisite: SOC 320.

SOC 331 Racial and Cultural Relations (4)

A study of racial, national, and religious groups, particularly those of the United States, emphasizing their historical development, special problems of adjustment and assimilation, and contemporary problems and trends.

Prerequisite: SOC 100.

SOC 335 The Family (4)

A comparative and historical study of the family.

Prerequisite: SOC 100.

SOC 336 Sex Roles in Modern Society (4)

The impact of ideological and technological change on the statuses, occupations, and relationships of males and females.

Prerequisite: SOC 100.

SOC 337 Character and Social Structure (4)

A study of the impact of society upon the individual.

Prerequisite: SOC 100.

SOC 355 Sociology of Occupations and Professions (4)

The structure of major occupations and professions in terms of their publics, their mandates, their clients, and the career lines they offer, with comparisons between "incomplete professions," such as nursing and undertaking, and full-fledged professions.

Prerequisite: SOC 100.

SOC 357 Industrial Sociology (4)

The relationship between industrial and business organizations and the community, the history of industrial sociology, the study of occupations, the social structure of business and industrial organizations, labor unions, informal work groups, and the character of occupational life in America.

Prerequisite: SOC 100.

SOC 360 Political Sociology (4)

The sociological factors which influence the distribution of power within a society: political communication, the maintenance of consensus, the process of revolution, the structure of political parties, and the emergence of new states.

Prerequisite: SOC 100.

SOC 368 Sociology of Medical Practice (4)

The structure of the medical profession from "black-bag" practice to group and hospital-centered practice; medical training, induction into practice and collegueship; related professionals such as chiropractors, optometrists, nurses, and paramedics.

Prerequisite: SOC 100.

SOC 370 Communities (4)

Community is examined in both empirical and theoretical contexts, with an em-

zations and agencies.

Prerequisite: Enrollment in Social Justice and Corrections concentration and written permission of instructor.

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 320.

SOC 440 The Sociology of Youth (4)

A cross-cultural analysis of the emerging youth culture in industrial societies: the economic, social, and political consequences.

Prerequisite: SOC 100.

SOC 441 Social Change (4)

The prediction and explanation of social change; change mechanisms such as crowds, publics, mass or social movements, and revolutions; and implications for social action.

Prerequisite: SOC 100.

SOC 470 Field Studies in Sociology: Urban Workshop (4)

Emphasis on sociological analysis and interpretation as participant-observers in Detroit Metropolitan social service organizations. Four to eight hours per week of field activity and written reports of the field study are required. Field placements and class meetings to be arranged by instructor. Open to majors in Sociology and/or Anthropology; to others by permission of instructor.

Prerequisite: Junior standing and completion of SOC 200, 260, 300, 320, 331, 335, 355, 357, or 381.

SOC 473 Social Control of Mass Media (4)

The major sociological factors which control the informational content of the mass media; differences between the structures and processes or control in the print and electronic sectors of the media. Identical with SCN 373.

Prerequisite: SOC 371.

SOC 480 Independent Study and Research (2 or 4)

Directed individual reading and research.

Prerequisite: Written permission of instructor.

SOC 490 Special Topics in Sociology (2 or 4)

Seminar on a special topic or problem requiring independent reading and writing.

Prerequisite: Written permission of instructor.

SOC 497 Apprentice College Teaching (4)

Supervised participation in the teaching of an undergraduate course in sociology, combined with readings and discussion of teaching objectives and methods appropriate for sociological presentation.

Prerequisite: Senior sociology major.

DEPARTMENT OF SPEECH COMMUNICATION

CHAIRPERSON: Adeline Hirschfeld-Medalia

PROFESSORS: Donald C. Hildum, William White (Director, Journalism Program)

ASSOCIATE PROFESSOR: Adeline Hirschfeld-Medalia

ASSISTANT PROFESSOR: J. Harold Ellens

ADJUNCT ASSISTANT PROFESSORS: Thomas A. Aston, William W. Connellan

VISITING LECTURERS: Robert A. Dearth, R. Hugh Dundas, Donald Easter, Berl Falbaum, David Green, David Robert Kanter, Walter Koste, James Llewellyn, Neil J. Munro, Edward R. Noble, Donn Shelton, James R. Tompkins III, Frank Vel, Dean Warner, Richard White, Vaughn Whited.

The Department of Speech Communication offers programs of study leading to the degree of Bachelor of Arts with the opportunity to concentrate in several areas. Courses are available in communication theory, public and interpersonal communication, journalism, theatre, oral interpretation, mass media analysis and production, and speech education. The Department of Speech Communication stands ready to serve the nonspeech major and the general Oakland University student. Communication training can enhance almost any career and life in general. There are many specialized careers which welcome students with speech communication knowledge, e.g. journalism, media, theatre, public relations, advertising, and teaching.

Requirements for the Liberal Arts Major in Speech Communication

The major consists of a minimum of 28 credits in courses labeled SCN, JRN, and THA, and 12 credits in a cognate outside the department. The SCN courses must include SCN 201 or 305, 303, and one 400-level course.

Requirements for the Modified Major with a Linguistics Concentration

Twenty-four credits in SCN, JRN, or THA, and 20 credits in

linguistics. SCN 303, and either SCN 201 or 305, are required. For linguistics requirements, see page 100.

Requirements for the Secondary Teaching Minor in Speech Communication

Twenty credits in SCN courses, including either 201 or 305 and 321. Any student with voice or articulation problems which would handicap his/her performance as a speech teacher will be expected to take an additional 4 credits in THA 230.

Requirements for the Concentration in Journalism

Twenty credits in journalism courses, including JRN 200 and 404. In addition, a student must complete a regular major in another discipline. A student may not earn a concentration in journalism and a major in speech communication.

Requirements for the Concentration in Theatre Arts

The concentration consists of 24 credits and the student may choose one of three emphases:

1. Literature for the Theatre. Required courses are UC 045, SCN 303, ENG 140, and THA/LIT 343.
2. Dramatic Performance and Direction. Required courses are UC 045, SCN 303, and THA 363.
3. Production: Technical Aspects. Required courses are UC 045, SCN 303, THA 261, and THA 363.

Course work in this concentration may be supplemented by internships and practica in the Student Enterprise and the Meadow Brook Theatres.

Concentrations in Speech Communication with Modified Majors

1. **Modified Major in Political Science with a Concentration in Speech Communication:** 24 credits in political science and 16 credits in speech communication.
2. **Modified Major in Psychology with a Concentration in Speech Communication:** 24 credits in psychology, including PSY 130 and 146, either PSY 335 or 435, and any two of PSY 320, 350, 351, or 352. Also, 16 credits in speech communication, including SCN 201.

3. **Modified Major in Sociology and Anthropology with a Concentration in Speech Communication:** 24 credits in sociology and anthropology including SOC 100 or AN 102, and 16 credits in speech communication, including SCN 201 and 371.

COURSE OFFERINGS IN SPEECH COMMUNICATION

SCN 121 **Speech Laboratory (1)**

Improvement of speech skills with emphasis on oral composition, vocabulary, grammar, pronunciation, and articulation. Activities designed to meet individual needs. May be repeated twice for credit.

SCN 150 **Introduction to Visual Media (4)**

Identical with SA 150 and ENG 150.

SCN 172 **Media Hardware (4)**

A working knowledge of the instruments used in mass media; operation, maintenance, and malfunctions. Recommended for education majors.

SCN 200 **Topics in Speech Communication (4)**

Topics and problems selected by the instructor, often an opportunity for personnel in other disciplines to offer courses in specialized interest or on topics of current relevance.

SCN 201 **Effective Speech Communication (4)**

Theory and practice in communication: adaptations required by particular goals, audiences, and occasions; videotaped student speeches; and classroom interactions.

SCN 202 **Group Dynamics and Communication (4)**

Group dynamics, discussion, and problem solving; influences of group structure, norms, roles, leadership, and climate on the processes of group communication, and collaborative decision-making.

SCN 207 **Semantics (4)**

Identical with LIN 207.

SCN 273 **Introduction to Cinematography (4)**

The essential elements of film as a medium, its capabilities, and limitations. Practical application in studio and/or field work.
Prerequisite: SCN 172.

SCN 274 **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.
Prerequisite: SCN 172.

SCN 301 **Persuasion (4)**

Analysis of persuasion in current society, psychological bases of persuasion, ethical considerations, and distinctions between debate and persuasive argument.
Prerequisite: SCN 201.

SCN 303 **Introduction to Communication Theory (4)**

Models of the communication process; the significance of verbal and non-verbal modes in communicating in various forms for different purposes.

SCN 304 Oral and Written Communication in Organizations (4)

Communication theory and practice within organizational systems.

SCN 305 Interpersonal Communication (4)

The elements, purposes, and patterns of interpersonal communication and their effects; practical experiences, interviewing, decision-making, and tutoring.

SCN 310 Philosophy of Rhetoric (4)

Identical with PHL 240.

SCN 311 Rhetorical Analysis and Speech Communication (4)

Principles and methods of oral composition, emphasizing the content, arrangement, and style of public address with application in the construction and delivery of public speeches.

Prerequisite: SCN 201.

SCN 320 Speech Communication for the Elementary Teacher (4)

Linguistic development in children (emotional, physical, and cognitive) relating to symbol-using behavior and appropriate instructional methods.

SCN 321 Speech Communication for the Secondary Teacher (4)

Principles and practices to improve the speech habits of the teacher, to supply special skills for classroom and professional use, and to assist prospective teachers in acquiring techniques for speech improvement in the classroom.

SCN 371 Forms and Effects of Mass Communication (4)

Identical with SOC 371.

SCN 373 Social Control of Mass Media (4)

Identical with SOC 473.

SCN 402 Small Groups (4)

Identical with SOC 402.

SCN 403 Communicative Networks (4)

The patterns of contact and information transfer in human groups, ranging from the sociometric patterns of small groups, to the formal and informal networks of organization and the large scale exchanges of mass societies.

Prerequisite: SCN 303.

SCN 430 Phonetics (4)

Identical with LIN 401.

SCN 471 Workshop in Contemporary Communication (4)

A course providing a bridge between academic learning and professional applications in speech communication forms and media. Included within the practicum-seminar format of the workshop will be fieldwork, observation, and lecture-demonstrations with selected professionals in and from a variety of job settings.

Prerequisite: Permission of instructor.

SCN 480 Special Topics Seminar (4)

Group study of topics of special interest chosen by departmental faculty and students. May be repeated for credit with the instructor's permission.

Prerequisite: Three SCN courses.

SCN 490 Independent Study (2, 4, or 8)

Special research projects in speech communication.

Prerequisite: Permission of instructor.

SCN 491 Internship (4, 8, or 12)

Practical experience working with professionals in a variety of performing arts and mass communication settings.

Prerequisite: Permission of supervising faculty.

SCN 497 Apprentice College Teaching (4)

Assisting in the teaching of an undergraduate course in speech communication or theatre, and participating in discussions with the supervising faculty member on the principles, methods, and problems of such teaching.

Prerequisite: Junior standing and permission of instructor.

COURSE OFFERINGS IN JOURNALISM**JRN 200 Newswriting (4)**

Training in the practical aspects of news gathering, interviewing, and basic newswriting techniques; a discussion of the various journalism media.

JRN 210 Investigative Reporting (2)

Gathering information through wide reading and interviewing; writing objective in-depth news reports; and background on social, political, and economic subjects of current interest and concern.

Prerequisite: JRN 200.

JRN 211 Public Affairs Reporting (2)

News coverage of federal, state, and local criminal and civil court trials; legislative bodies, city, county, and other government agencies; labor and stock market news.

Prerequisite: JRN 200 and PS 100.

JRN 212 Feature Writing (2)

Practice in writing newspaper and magazine nonfiction features, such as human interest stories, biographical and personality sketches, how-to-do-it articles, and other forms. A study of the purposes, styles, various types, and techniques of the feature story.

Prerequisite: JRN 200.

JRN 220 Editorial Writing (2)

Preparing and writing newspaper opinion and commentary usually found on the editorial page; a study of the forms and techniques of editorials and the editorial page.

Prerequisite: JRN 200.

JRN 221 Reviewing: Books, Theatre, Movies (2)

Writing newspaper reviews of the literary, visual, and performing arts from recent publications, live productions, films, and television.

Prerequisite: JRN 200 and ENG 100, 111, 201, 207, 209, 224, or 225.

JRN 230 Radio-Television News (2)

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 231 Public Relations and the Media (2)

A study of the function of agency, industrial, business, and institutional relations with the public through newspapers, radio, television, and other media, especially concerning press information; preparation of copy; and some attention to employee publications.
Prerequisite: JRN 200.

JRN 240 Journalism Laboratory (2)

Work in on-campus or off-campus publications under the direction of an instructor; the course 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 the new and developing devices in the print shop, such as those involving the computer.
Prerequisite: JRN 200.

JRN 303 Law of the Press (4)

State and federal laws dealing with libel; contempt of court; right of privacy; copyright; and other legal matters affecting newspapers, radio and television, and other media.
Prerequisite: JRN 200.

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; dark room laboratory work in developing photos.
Prerequisite: JRN 200.

JRN 331 Media Management (2)

Business, corporation, and legal problems in the front office operation of weekly and daily newspapers; industrial and employee magazines; and radio and television stations.
Prerequisite: JRN 200.

JRN 400 Special Topics in Journalism (4)

Various specialties offered to students with the subject changing from semester to semester, with some opportunity for independent study.
Prerequisite: JRN 200.

JRN 404 Journalism Internship (4, 8, or 12)

A full- or part-time internship on a weekly or daily newspaper, radio, or television station, or with a public relations office for one semester. Open only to students in the journalism concentration, usually in the senior year. May be repeated once, but not in the same media.
Prerequisite: JRN 200, 300, and two other JRN courses.

COURSE OFFERINGS IN THEATRE ARTS

THA 230 Voice and Articulation (4)

Theory and application in voice, articulation, and pronunciation.

THA 261 Technical Laboratory (4)

Survey of techniques of scenery and costume construction, and lighting, including proper usage of tools and hardware in these three areas. Twenty hours of work on a major production is required. Recommended after UC 045.

THA 267 Fundamentals of Acting (4)

Basic theories of acting techniques ranging from improvisation to Stanislavski with emphasis on performance. Connections between styles and specific cultures will be made.

THA 350 Oral Interpretation (4)

Oral expression of literature—prose, poetry, and drama—based on intellectual, emotional, and aesthetic analysis.

THA 361 Mime (4)

Identical with NC 211.

THA 362 Technical Design Laboratory (4)

A basic knowledge of drafting and rendering for stage and costume will be covered as well as the development of lighting plots. Twenty hours of work on a major production is required.

Prerequisite: THA 261.

THA 363-364 Practicum in Rehearsal and Performance (4)

The student participates in the development of a student theatre production, on character development, design conception and execution, or prompt script. May be repeated for a total of 8 credits.

THA 366 Introduction to Costuming and Makeup (4)

Theory and practicum.

Prerequisite: THA 261.

THA 367 Advanced Acting (4)

Further development of the material covered in THA 267 with each student performing in a major production and providing a research paper on a given acting style.

Prerequisite: THA 267.

THA 341 Topics in World Drama (4)

Identical with LIT 341.

THA 342 Continental European Drama I (4)

Identical with LIT 342.

THA 343 Continental European Drama II (4)

Identical with LIT 343.

THA 346 Non-Western Theatre and Dramatic Literature (4)

Identical with LIT 346.

THA 420 Extemporaction and Theatre Games (4)

Group interaction experiences such as improvisation, simulation, roleplaying, sociodrama, creative dramatics, story and readers theatre, and educational games. Includes application of these techniques for group leadership, teaching, and theatre performance. Identical with ED 590.

Prerequisite: THA 267.

THA 450 Readers, Chamber, and Media Theatre (4)

Group forms of oral interpretation. Intensifying meaning through added movement, media, and music.

Prerequisite: THA 267 or 350.

THA 460 Theatre Production for School and Community (4)

Theatre production coordination, including such aspects as choice of scripts, casting, direction, staging, lighting, costuming, box office, and publicity.

Prerequisite: THA 261, 267, and 363.

THA 462 Direction Practicum for the Stage, Film, Television (4)

An exploration into the different methods of direction necessary in each of the three media. Scenarios will be developed utilizing students from SCN 161.

Prerequisite: THA 261, 267, 363, and 367 or 420.

THA 464 Costume Design (4)

Introduction to costume history, drafting, cutting, and construction, as well as the technique of rendering.

Prerequisite: THA 261, 267, 363, and 366.

THA 465 Advanced Practicum in Rehearsal and Performance (4)

A continuation of THA 363-364.

Prerequisite: THA 363-364.

THA 466 Advanced Stage Design (4)

The concept of stage design, rendering, and drafting.

Prerequisite: THA 261, 267, 362, and 363-364.

AREA STUDIES

CHAIRPERSON: Robert C. Howes (History—Russia)

AREA STUDIES COMMITTEE: Carlo Coppola (Modern Languages—South Asia), Barbara A. Gallow-Lyman (Learning Skills—Afro-American Studies), James D. Graham (History—Africa), Kathryn M. McArdle (Modern Languages—Latin America), James R. Ozinga (Political Science—Russia), Amitendranath Tagore (Modern Languages), S. Bernard Thomas (History—China)

Drawing upon faculty from its various disciplines, the College of Arts and Sciences sponsors a distinctive offering of area studies programs. The programs are dedicated to the understanding of living civilizations whose various aspects—art, government, history, language, literature, music, and social organization—are studied in the traditional departments of the university. A concentration in one of the areas offered might be considered by a student who, from intellectual curiosity, seeks an integrated view of a civilization as well as by a student who looks forward to a career in government service, journalism, teaching, residence or work abroad, or to graduate study with an area emphasis.

Oakland offers area programs in African studies, Afro-American studies, East Asian studies (China and Japan), Latin American studies, Slavic studies (Russia and Eastern Europe), and South Asian studies (India, Pakistan, and Bangladesh). Courses labeled "AS" are described at the end of this section. All other courses applicable to area studies programs are offered by the departments of the college and descriptions of those courses are found in the respective departmental listings.

African Studies Program

COORDINATOR: James D. Graham (History)

FACULTY: Cordell W. Black (Learning Skills), Richard M. Brace (History), Lawrence T. Farley (Political Science), William C. Forbes (Biological Sciences), Karl D. Gregory (Economics and Management), Marvin D. Holladay (Music), James W. Hughes (Education), David Jaymes (French), Mary Karasch (History), Vincent B. Khapoya (Political Science), Cecilia F. Klein (Art History), Gayle Partmann (Linguistics)

The concentration in African Studies, which consists of 40 credits, is offered in conjunction with a full major in any department. Course requirements are AS 064, four semesters of Swahili or Arabic,* and AS 384.

*Until Oakland offers Swahili or Arabic on a regular basis, this requirement may be met by completion of 20 hours of French, Portuguese, or other courses approved by the African studies staff.

COURSE OFFERINGS

AH 200	African Art
AN 352	Survey of African Peoples and Cultures
BIO 309	Parasitology
ECN 327	African Economic Development
HST 286, 287	Survey of African History
HST 365	Response to European Imperialism
HST 386	African Socialism
HST 387	Northwestern Africa (the Maghrib) since 1830
LIN 301	Introduction to Linguistic Structures
ALS 428	The Teaching of English as a Second Language
MUS 251	African through Afro-Caribbean Music
PS 332	Politics of the Middle East and North Africa
PS 333	African Politics
AS 064	Introduction of Africa
AS 300	Special Topics in Area Studies
AS 384	Seminar in African Studies
AS 390	Directed Readings in Area Studies
AS 490	Directed Research in Area Studies

Afro-American Studies Program

COORDINATOR: Barbara A. Gallow-Lyman (Learning Skills)

FACULTY: James H. Bullock (Learning Skills), Robert L. Donald (English), DeWitt S. Dykes (History), James D. Graham (History), Karl D. Gregory (Economics and Management), Marvin D. Holladay (Music), Mary Karasch (History), Vincent A. Khapoya (Political Science), Cecilia F. Klein (Art History), Gadis Nowell (Economics and Management), Carl R. Osthaus (History), Colin A. Palmer (History)

The concentration in Afro-American Studies, which consists of 28 credits, is offered in conjunction with a full major in any department. Required courses are AS 064, HST 291, HST 292, AS 380, and one course from each of the following groups:

1. AH 208, ENG 342, or MUS 346.

2. PS 163, ECN 221, or SOC 331.
3. AS 300, AS 390, HST 319, HST 323, or HST 366.

COURSE OFFERINGS

AH 208	Afro-American Art
AN 353	Anthropology of North Africa and the Middle East
ECN 221	Economics of the Afro-American Experience
ENG 342	Black American Writers
HST 291, 292	History of the Afro-American People
HST 319	History of the American South
HST 323	Advanced Study in Afro-American History
HST 366	Slavery and Race Relations in the New World
MUS 346	The Music of Black Americans
PS 163	Black Politics
SOC 331	Racial and Cultural Relations
AS 300	Special Topics in Area Studies (Field Studies in the Afro-American Experience)
AS 380	Seminar in Afro-American Studies
AS 390	Directed Readings in Area Studies
AS 490	Directed Research in Area Studies

East Asian Studies Program

COORDINATOR: S. Bernard Thomas (History)

FACULTY: Sheldon L. Appleton (Political Science), Ralph F. Glenn (Art History), Robert C. Howes (History), Janet Krompart (East Asian Librarian), John Marney (Chinese Language and Literature), Paul M. Michaud (History), Shih-Chen Peng (Chinese Language and Literature), John E. Rue (Political Science), I. Michael Solomon (History), Richard B. Stamps (Anthropology), Amitendranath Tagore (Chinese Language and Literature), Robert Wargo (Philosophy)

The concentration in East Asian Studies is offered in combination with a modified departmental major in anthropology, art and art history, history, political science, philosophy, or sociology. Admission to the concentration requires successful completion of AS 062 or AS 063 and two semesters of Chinese. The requirements for the concentration are 24 credits in the major department, four semesters of Chinese language, and 20 additional credits from the following list including AS 490.

Students interested in East Asian studies may also major in Chinese Language and Civilization. The major, sponsored by the Department of Modern Languages, requires 36 credits in Chinese and 20 credits from the following list, including AS 490.

COURSE OFFERINGS

AH 104	Introduction to Asian Art
AH 300	Chinese Art
AH 301	Japanese Art
AH 304	Japanese Painting
HST 277	Japan to 1800
HST 278	Japan since 1800
HST 370	China: Beginnings to Mid-T'ang, ca. 750
HST 371	China: Mid-T'ang to the Peak of Manchu Power, ca. 1800
HST 373	Nineteenth Century China
HST 374	Nationalism and Communism in China
HST 375	Topics in Chinese Intellectual History
HST 376	History of Chinese Communism, 1921-present
PHL 250	Philosophies and Religions of Asia
PHL 351	Chinese Philosophy
PHL 353	Japanese Philosophy
PS 338	Modern Chinese Politics
PS 339	Sino-Soviet Relations
AS 062	Introduction to China
AS 063	Introduction to Japan
AS 300	Special Topics in Area Studies
AS 381	Seminar in East Asian Studies
AS 390	Directed Readings in Area Studies
AS 490	Directed Research in Area Studies

South Asian Studies Program

COORDINATOR: Carlo Coppola (Modern Languages)

FACULTY: Peter J. Bertocci (Sociology and Anthropology), Richard W. Brooks (Philosophy), Ralph F. Glenn (Art History), Brian W. Coyer (Political Science), Bruce Harker (Education), John Hurd II (Economics),

Paul M. Michaud (History), Munibur Rahman (Modern Languages),
Amitendranath Tagore (Modern Languages), Richard P. Tucker
(History)

The concentration in South Asian Studies is offered in combination with a modified departmental major in anthropology, art and art history, history, political science, philosophy, or sociology. The requirements are 24 credits in the major department, four semesters of an Indian language*, and 20 credits from the following list, including AS 490.

Formal admission to the concentration requires completion of AS 066 and two semesters of an Indian language. Interested students should consult with the coordinator of South Asian studies as early in their college careers as possible.

*In special cases, Sanskrit or Bengali may constitute an alternative to Hindi-Urdu. Consent of the coordinator is required.

COURSE OFFERINGS

AH 104	Introduction to Asian Art
AN 361	The Peoples and Cultures of India
ECN 223	The Indian Economy
HST 280	History of Southeast Asia
HST 282	Introduction to the History of India
HST 381	History of Early India
HST 382	The Muslim Tradition in India and Pakistan
HST 383	British Imperialism and Hindu Nationalism in India, 1740-1947
PHL 250	Philosophies and Religions of Asia
PHL 352	Indian Philosophy
PS 334	Political Systems of Southern Asia
SOC 300	Social Stratification in Cross-Cultural Perspective
AS 066	Introduction to India
AS 300	Special Topics in Area Studies
AS 382	Seminar in South Asian Studies
AS 390	Directed Readings in Area Studies
AS 490	Directed Research in Area Studies

Slavic Studies Program

COORDINATOR: James R. Ozinga (Political Science)

FACULTY: Lee M. Corrigan (Russian Language and Literature), Jerry M. Freeman (Russian Language and Literature), Alice Gorlin (Economics), Robert C. Howes (History), Dmytro Ijewliw (Russian Language and Literature), Helen Kovach (Russian Language and Literature), Lawrence D. Orton (History)

The concentration in Slavic Studies is offered in combination with a modified major in anthropology, history, political science, philosophy, or sociology. The requirements are 24 credits in the major department, four semesters of Russian language, and 20 credits from the list of Slavic Studies courses, including HST 251 or 252, PS 337, and AS 490. Admission to the program requires completion of AS 070 and two semesters of Russian. Interested students should consult with the coordinator of the program as early in their college careers as possible.

Students interested in Slavic Studies may also major in Russian Language and Civilization. The major, sponsored by the Department of Modern Languages, requires 32-36 credits in Russian and 20 credits selected from the list of Slavic Studies courses, including AS 490.

COURSE OFFERINGS

AH 320	Byzantine Art
HST 251, 252	Introduction to Russian History
HST 254	Eastern European History
HST 352	Kiev and Muscovy
HST 353	Imperial Russia
HST 354	Soviet Russia
HST 359	Russian Intellectual History to Peter the Great
HST 360	Russian Intellectual History since Peter the Great
PS 277	Communism
PS 337	The Soviet Political System
PS 339	Sino-Soviet Relations
AS 070	Introduction to the Slavic World
AS 300	Special Topics in Area Studies
AS 383	Seminar in Slavic Studies

AS 386	Slavic Folk Studies
AS 390	Directed Readings in Area Studies
AS 490	Directed Research in Area Studies

Latin American Studies

COORDINATOR: Kathryn McArdle (Spanish)

FACULTY: Anna Barnes (Spanish), William C. Bryant (Spanish), James W. Dow (Anthropology), Edward J. Heubel (Political Science), Mary C. Karasch (History), Cecelia F. Klein (Art History), Richard Mazzara (French, Portuguese), Mariano Pallarés (Spanish, Portuguese), Colin A. Palmer (History)

The concentration in Latin American Studies is offered in combination with a modified major in anthropology, art and art history, history, political science, philosophy, or sociology. The requirements are 24 credits in the major department, four semesters of Spanish language, AS 068, and 20 credits from the following list, including AS 490. Admission to the program requires completion of AS 068, and two semesters of Spanish, Portuguese, or French. Interested students should consult with the coordinator of the program as early as possible in their college careers.

Students interested in Latin American studies may also major in Latin American Languages and Civilization. The major, sponsored by the Department of Modern Languages, requires 20 credits in Spanish beyond SPN 214-215 and 20 credits selected from the following list, including AS 490. For alternative language requirements, see the Modern Languages entry.

COURSE OFFERINGS

AH 204	Pre-Columbian Art
AN 371	Cultures of Mesoamerica
AN 372	Indians of South America
HST 261, 262	Introduction to Latin American History
HST 363	History of Southern South America
HST 365	The Response to European Colonialism
HST 366	Slavery and Race Relations in the New World
HST 367	Pre-Columbian and Colonial Mexico
PS 335	Politics of Latin America
AS 068	Introduction to Latin America

AS 300	Special Topics in Area Studies
AS 368	Summer Program in Mexican Studies
AS 385	Seminar in Latin American Studies
AS 387	Hispanic Folk Studies
AS 390	Directed Readings in Area Studies
AS 490	Directed Research in Area Studies

AREA STUDIES COURSE OFFERINGS

AS 062 Introduction to China (4)

A study of the traditional civilization and modern development of China. Topics include history, philosophy and religion, literature and the arts, government, and social organization.

AS 063 Introduction to Japan (4)

A study of the traditional civilization and modern development of Japan. Topics include history, philosophy and religion, literature and the arts, government, and social organization.

AS 064 Introduction to Africa (4)

An introduction to the geography and ecology of Africa and the history and cultures of African peoples. Attention will be directed also to social organization; economic, political, and religious systems; and problems of social change.

AS 066 Introduction to India (4)

A study of the traditional civilization and modern development of the Indian subcontinent. Topics include philosophy and religion, literature and the arts, history, political structure, and social organization.

AS 068 Introduction to Latin America (4)

A study of the traditional and modern forces in Latin America; the cultures of Indian, European, and African peoples; and a survey of contemporary social and political problems of the area.

AS 070 Introduction to the Slavic World (4)

A study of the traditional civilization and modern development of the Slavic peoples with special emphasis on the Russians. Topics include ethnography, history, literature and the arts, political organization, and the role of the Soviet bloc in the modern world.

AS 300 Special Topics in Area Studies (4)

Interdisciplinary study of a foreign area, or a particular aspect of a foreign area, for which no regular course offerings exist. May be repeated once for a total of 8 credits.

AS 368 Summer Program in Mexican Studies (8)

Oakland faculty cooperate with Mexican faculty to present a set of summer courses focusing on Mexican culture: history, art, political and social problems, folk arts, archaeology, Chicano studies, intensive language, and Mexican literature. Approach emphasizes comparisons with U.S. culture and field work. Courses conducted in both Spanish and English. May be repeated once for additional credits with the consent of the coordinator of Latin American studies.

AS 380 Seminar in Afro-American Studies (4)

Offered to supplement departmental area courses. An intensive study of selected

topics dealing with the Afro-American experience. May be taken more than once.
Prerequisite: Permission of instructor.

AS 381 Seminar in East Asian Studies (4)

Offered to supplement departmental area courses. An intensive study of selected topics dealing with East Asia. May be taken more than once.

Prerequisite: Permission of instructor.

AS 382 Seminar in South Asian Studies (4)

Offered to supplement departmental area courses. An intensive study of selected topics dealing with South Asia. May be taken more than once.

Prerequisite: Permission of instructor.

AS 383 Seminar in Slavic Studies (4)

Offered to supplement departmental area courses. An intensive study of selected topics dealing with the Slavic area. May be taken more than once.

Prerequisite: Permission of instructor.

AS 384 Seminar in African Studies (4)

Offered to supplement departmental area courses. An intensive study of selected topics dealing with Africa. May be taken more than once.

Prerequisite: Permission of instructor.

AS 385 Seminar in Latin American Studies (4)

Offered to supplement departmental area courses. An intensive study of selected topics dealing with Latin America. May be taken more than once.

Prerequisite: Permission of instructor.

AS 386 Slavic Folk Studies (2)

An intensive survey of the traditional music, songs, dances, and costumes of selected Slavic cultures. Includes participation in the Selo Ensemble. May be repeated once for a total of 4 credits.

AS 387 Hispanic Folk Studies (2)

An intensive survey of the traditional music, songs, dances, and costumes of Spain and selected Latin American countries. Includes participation in the Hispanic Dance Troupe. May be repeated once for a total of 4 credits.

AS 390 Directed Readings in Area Studies (2, 4, 6, or 8)

Readings from diverse disciplines with focus on a student's area of specialization. Conducted on a tutorial basis by an instructor chosen by the student.

Prerequisite: Permission of department and instructor.

AS 490 Directed Research in Area Studies (2, 4, 6, or 8)

Research relating to the student's area of specialization including completion of a senior essay or research paper. May be offered as a seminar or as a tutorial. Supervised by an instructor from the Area Studies staff.

Prerequisite: Senior standing, admission to an area concentration, and permission of department and instructor.

HEALTH SCIENCES PROFESSIONS

COMMITTEE CHAIRPERSON: Moon J. Pak (Biological Sciences)

MEMBERS: Boaz Kahana (Psychology), Abraham R. Liboff (Physics and Medical Physics), Nalin J. Unakar (Biological Sciences and Medical Technology), Paul Tomboulion (Chemistry and Environmental Health)

Oakland University offers interdepartmental programs leading to the Bachelor of Science degree with majors in environmental health, medical physics, and medical technology. These majors are among a number of health-related baccalaureate programs keyed to state and national needs. Some aspects of these programs, such as the total credit requirement, general education requirement, and off-campus practicum experience are at variance with the general practices in the College of Arts and Sciences.

Graduates of some health science programs are required to take certification or licensing examinations. In such programs a judicious effort has been made to follow guidelines set by external agencies. On-the-job and clinical training is provided to make students employable in specific health fields.

ENVIRONMENTAL HEALTH PROGRAM

DIRECTOR: Paul Tomboulion (Chemistry)

This program prepares students as environmental specialists for a wide variety of professional opportunities existing mainly in government and industry. Graduates of the program should be able to identify and offer technical solutions to the broad range of environmental problems which impact on human health and well-being. These include such areas as occupational health, air resources, water resources, land resources, and environmental planning.

Requirements for the Bachelor of Science Degree

1. 128 credits.
2. 24 credits of general education. The student must complete at least 4 credits in three of the four designated field groups, and at least 8 credits in one of the field groups. The desig-

nated field groups are Arts, Letters, Social Science, and Area Studies. Up to 8 credits in English composition may be included in the 24-credit requirement.

3. An introductory core program of 35 credits, including BIO 111, 112, 113, and 114; CHM 114, 115, 117, 118, 203, and 204; and MTH 123-124 or 154-155.
4. An intermediate core program of 30 credits in biology, chemistry, and physics, often including BIO 301 and 331, CHM 217 and 351, and PHY 101, 102, and 158.
5. A specialization in either Occupational Health and Safety or in Environmental and Resource Management.

Specialization in Occupational Health and Safety

This specialization provides a combination of subject matter and experiences designed to prepare students for professional careers relating human health and safety factors to working conditions. The increased emphasis on improving occupational health and safety has generated many opportunities in industry, government, public health, and environmental control agencies. Students learn first to recognize and evaluate environmental hazards and identify potential problems. This is followed by training in sampling, monitoring, and controlling harmful and dangerous agents. Finally students learn corrective procedures and prescriptive methods for control or elimination of undesirable occupational health and safety conditions and practices. Emphasis is on air and water pollutants, noise, radiation hazards, and disease vectors. Techniques of assessing actual and potential risks of exposure to environmental hazards are evaluated, along with philosophies, methodologies, and applications of tolerances, thresholds, and limits.

Although the details of the curricula and courses are still being developed, the program will be based upon the core courses, emphasizing specialization in the junior and senior years. Anticipated upper-level offerings would include the areas of public health, epidemiology, toxicology, and occupational health internship.

Specialization in Environmental and Resource Management

Students in this option emphasize the management of resources as they affect human health and well-being. Individualized academic curricula are possible providing a maximum of flexibility

to match interests, talents, and subject specialties. Opportunities for study in air pollution, water pollution, demography, land resource management, control applications, and planning functions are anticipated. Professional careers are available for graduates in planning agencies, industry, and government. Alternatively, program options offer ideal training for a variety of graduate school opportunities in environmental studies, planning, natural resource management, and environmental and public health.

Curricular details are in the developmental stages, but advanced offerings may include courses in environmental chemistry, air and water chemistry, radiation physics, ecology, urban studies, environmental engineering, political science, and earth sciences.

MEDICAL PHYSICS PROGRAM

DIRECTOR: Abraham R. Liboff (Physics)

Medical physics, a relatively new health-related professional program, is concerned with the use of physical techniques in the diagnosis and treatment of disease. In the past the subject was most closely associated with radiation therapy in the development of which it played a vital part. Today it also includes the physical aspects of X-ray diagnosis, nuclear medicine, radiation safety, ultrasonics, lasers, thermography, image intensification, EKG and EEG. It is also involved in related areas such as patient monitoring and general medical instrumentation. In addition to clinical duties surrounding these techniques, medical physicists are engaged in research and development, consultation and service, and teaching of residents, hospital personnel, and undergraduates. Much of the progress made in the last decade in both diagnosing and in treating cancer can be directly traced to the increasing use of physics in medicine.

The medical physics program is based on a group of physics courses, with relevant biology, chemistry, and mathematics courses added. During the fourth year, students take part in an internship at a local hospital and, along with hospital residents, take courses in such areas as physics, radiology, nuclear medicine, and medical instrumentation.

Interested students must consult with the program director to obtain specific information on the required courses and to receive counseling.

Requirements for the Bachelor of Science Degree

1. 128 credits.
2. 24 credits of general education. The student must complete at least 4 credits in three of the four designated field groups, and at least 8 credits in one of the field groups. The designated field groups are Arts, Letters, Social Science, and Area Studies. Up to 8 credits in English composition may be included in the 24-credit requirement.
3. PHY 158 and 38 additional credits in physics at or above the 200 level, including PHY 247 or 341 and 347, PHY 271 or 371, PHY 441-442, Phy 443-444, PHY 445, and PHY 490 (practicum).
4. 16 credits of mathematics, at a level not below MTH 154.
5. 20 credits of chemistry, at a level not below CHM 114.
6. 12 credits of biology, at a level not below BIO 111.
7. 2 credits of computer programing.

MEDICAL TECHNOLOGY PROGRAM

DIRECTOR: Nalin J. Unakar (Biological Sciences)

The program prepares students for professional health career opportunities in clinical pathology laboratories in hospitals. Medical technologists work under the supervision of a pathologist and are primarily responsible for the operation of the laboratory, performing a wide variety of tests on which physicians base their diagnosis of a disease and formulate therapeutic plans. They also direct the work of medical laboratory technicians and laboratory assistants whose scope of training is much less extensive.

Medical technology students take a three-year academic program at Oakland based on the educational guidelines set forth by the Council on Medical Education of the American Medical Association. The fourth year is spent in an affiliated and approved hospital school of medical technology. Prior to receipt of the degree, the student must pass a national certification examination to become a registered medical technologist. The completion of the medical technology program is contingent upon the student's successful admission to one of the hospital schools of medical technology affiliated with the university.

Currently, the following hospital schools are affiliated with Oakland: Crittenton Hospital, Rochester; Pontiac General Hospital, Pontiac; Providence Hospital, Southfield; St. Joseph Mercy Hospital, Pontiac; and William Beaumont Hospital, Royal Oak.

Requirements for the Bachelor of Science Degree

1. 128 credits, including the 28 credits earned in the fourth-year internship.
2. 24 credits of general education. The student must complete at least 4 credits in three of the four designated field groups, and at least 8 credits in one of the field groups. The designated field groups are Arts, Letters, Social Science, and Area Studies.
3. A major program of 76 credits, including:
BIO 111, 112, 113, 114, 221, 222, 223, 224, 407, 408, medical microbiology, and immunology
CHM 104, 105, 107, 203, 204, 206, and 207
MTH 123
PHY 101, 102, and 158



OTHER CONCENTRATIONS AND OPTIONS

In addition to the area studies programs and other concentrations already detailed in departmental listings (such as linguistics, theatre arts, speech communication, and journalism), the College of Arts and Sciences sponsors a number of other interdepartmental offerings. In addition, the college and other academic units on campus sponsor some of these programs jointly.

CONCENTRATION IN ARCHAEOLOGY

CHAIRPERSON: Gottfried Brieger (Chemistry)

This concentration is designed to prepare students for graduate study in archaeology as well as for students interested in an interdisciplinary approach to man's cultural development viewed from a historical, aesthetic, and scientific perspective. There are 28 credits required for this program.

1. Core: AN 101, CLS 100, and AH 314.
2. One course in old world archaeology: AH 312, CLS 130, CLS 131, or CLS 150.
3. One course in new world archaeology: AH 204, AH 206, AN 370, AN 371, AN 380, HST 306, or HST 367.
4. One course in methods and field term: AH 415, AH 416, AH 417, or AN 383.

In addition to the required courses, a number of other courses are recommended for those interested in further expanding their background. These include: AH 320, 322, and 326; AN 352, 372, and 381; HST 261, 262, 325, 328, and 329.

CONCENTRATION IN COMPUTER AND INFORMATION SCIENCE

COORDINATOR: Richard E. Haskel (Engineering)

COMMITTEE: Charles Allan (Computer Services), Benjamin Cheydleur (Engineering), Curtis Chipman (Mathematics), David E. Boddy (Engineering), Glenn Jackson (Engineering), John Marks (Political Science), John McKinley (Physics), Harvey Shapiro (Economics and Management), and Robert Simmons (Arts and Sciences).

The concentration in Computer Science is offered by the School of Engineering and is available on a joint basis to students within a department of the College of Arts and Sciences or the School of Economics and Management as well as to students in the School of Engineering. Many combinations are feasible. With a major in mathematics, physics, chemistry, biology, and economics, a student may wish to emphasize numerical and scientific computing aspects of computer science. With a major in English, modern languages, history, philosophy, psychology, sociology, or anthropology, a student may wish to take courses in the computer science concentration that emphasize non-numerical and symbolic data processing, language translation, and list processing. With a major in economics and management, a student may wish to take courses oriented toward application of computers in management data processing.

Admission to the concentration in Computer Science requires completion of 32 credits, including at least one CIS course. The student must also obtain the approval of an authorized adviser for the concentration in Computer and Information Science by completing the application forms available in Room 248 Dodge Hall. The student's program will then be developed by joint action of the student, the departmental adviser, and the committee.

The Computer and Information Science committee has established the minimal requirement for the concentration of 16 credits in CIS designated courses. Exceptions to this minimal requirement as specified by participating schools and departments are listed in their separate sections of this catalog.

The course offerings in Computer and Information Science are listed on page 273.

CONCENTRATION IN ENVIRONMENTAL STUDIES

COORDINATOR: Paul Tomboulian (Chemistry)

The Environmental Studies program is intended to introduce students to modes of thought and action relative to environmental issues. Students learn to identify and evaluate alternative solutions to environmental problems. Short- and long-range implication of human activities are analyzed, as they affect resources and public policy.

Four broad areas of inquiry are included in these studies: application of science and technology to environmental quality

and resources, the impact of human settlements on ecosystems and human welfare, the implications of human life support activities, including food, transportation and planning, and the use, reuse, and depletion of physical and biological resources.

Through a multidisciplinary approach problem-solving methods, decision-making programs, and benefit-risk analyses can best be understood. Thus the program does not offer a major, but concentrations are available in conjunction with existing majors in cooperating departments. Minimum requirements for the concentration are 24 credits in ENV and related courses, to be developed in consultation with the program coordinator. Programs of individualized independent study and field work are a frequent feature of the concentration.

Courses of related interest in many departments are often suitable for inclusion in an environmental studies concentration. These include, but are not limited to: AN 102, AN 265, AH 362, BIO 237, BIO 301, BIO 343, ECN 225, ECN 308, ECN 309, PSY 205, PSY 230, SOC 201, SOC 370, EGR 415, HST 316, 317, HST 350, 351, PHL 219, PHY 106 and 107.

COURSE OFFERINGS

ENV 151 Introduction to Environmental Studies (4)

A general introduction to selected social and political aspects of typical environmental issues. Topics chosen from current literature and taught predominantly by social science faculty.

ENV 181 Introduction to Environmental Studies (4)

A general introduction to selected scientific and technical aspects of typical environmental issues. Topics chosen from current literature and taught predominantly by science faculty. Especially designed for nonscience majors. Science majors should take ENV 271.

Prerequisite: Sophomore standing.

ENV 182 Introductory Environmental Topics (4)

A course complementing ENV 181 emphasizing selected areas of resource use and management. Content varies according to semester.

Prerequisite: Sophomore standing.

ENV 212 Energy and the Environment (4)

Basic facts of energy: its sources, forms, the roles it plays, and its ultimate sinks. Emphasis is placed on learning the laws that limit energy utilization, the energy flow patterns that affect human welfare, the effects of energy use on the environment, and the facts and alternatives associated with current energy-related problems.

Prerequisite: ENV 181. Two years of high school mathematics desirable.

ENV 221 Subsistence and Technology in Nonindustrial Society (4)

Identical with AN 221.

ENV 271 Environmental Science (4)

A technical introduction to the scientific issues and principles underlying contemporary environmental issues. Especially designed for students in science, mathematics, and engineering majors.

Prerequisite: Sophomore standing and one year of college-level science.

ENV 305 Selected Topics (2, 4, 6 or 8)

Studies in special areas, often individually arranged. May be repeated for credit. Preparation of study plan and approval of the instructor listed is required prior to registration. Graded S/N.

ENV 313 Problems of Energy and Environment (5)

Methods of determination of environmental costs of current energy consumption in agriculture, electric power generation, nuclear waste disposal, transportation, and industry. Advantages and disadvantages of alternative energy sources, consumption patterns, and conservation efforts are examined.

Prerequisite: CHM 105, 115, 125, or PHY 152.

ENV 362 Impact of Urbanization (4)

A scientifically-based environmental impact analysis of urbanization. Includes a consideration of the climate, hydrology, soils, physiography, and ecological relationships in suburban, urban, and metropolitan areas.

Prerequisite: Junior standing. Prior experience in metropolitan studies desirable.

ENV 372 Air Chemistry (4)

A technical evaluation of the nature and composition of the earth's atmosphere, both in its natural state and as it has been affected by man. Some discussion of air pollution control will be included. Identical with CHM 372.

Prerequisite: CHM 203 and 305.

ENV 373 Water Resources (4)

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. Identical with CHM 373.

Prerequisite: CHM 203 and 217.

ENV 421 Health Effects of Environmental Pollutants (4)

Technical analysis of the relationships between environmental pollutants and human health. Includes sources of pollutants and modes of action, occupational hazards, low level effects, and corrective procedures.

Prerequisite: Junior standing and permission of instructor.

Concentration in Health-Medical Behavioral Sciences

COORDINATORS: Carl R. Vann and Philip Singer

The concentration in health-medical behavioral sciences is planned to be taken in conjunction with a regular departmental major or independent concentration. Its purpose is to offer the multi-disciplinary perspective of the behavioral sciences on the many and varied aspects of the health-medical 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 also offers significant

insights and opportunities for study to students pursuing programs of general education, administration, and law.

Requirements for the concentration in the health-medical behavioral sciences are 20 credits to be chosen from: AC 101, 102, 200, 250, 251, 400, AN 420, and SOC 368.

Students in the premedical program and majors in any of the natural sciences, with adviser's approval, may count 4 credits of their major course work toward this concentration.

With adviser's approval, other introductory courses in the social sciences may be substituted for AC 101-102 in this concentration. It is also possible to substitute 8 credits of AC 400 for AC 101-102 or 4 credits of AC 400 for AC 250-251.

COURSE OFFERINGS

AC 101-102 Introduction to Behavioral Sciences (4 each)

An introduction to the methods, data, and insights of the behavioral sciences with emphasis on anthropological, sociological, ethological, and political research. The implications and relevance of these basic and applied studies for the behavior of individuals, groups, and nations are examined. This is a two-semester course. It is required of all students in Allport College and meets the social sciences distribution requirement.

AC 103-104 Preceptorial (4 each)

An exploration in depth of a significant issue in the behavioral sciences emphasizing group discussion and individual contributions.

AC 200 Health Care Dimension (4)

A survey of the development, present status, and dynamics of the American health care system emphasizing the structure of the various health professions and the problems, opportunities, and constraints related to the various modes of health care delivery, and professionalism. Role choice and role integration in the various health care fields will be studied. Also examined will be the relationships between the health care cultures and the personality and professional roles of health care practitioners. Additional topics will deal with issues involving hospitals, health care teams, planning, public policy, client relationships, and factors affecting health.

AC 202 Research Techniques and Behavioral Sciences (4)

This course is designed to teach in depth the reference materials and research methods for the various disciplines in the behavioral sciences.

AC 205 Evaluation of Music (4)

A course designed to encourage active, discriminating listening and based on the premise that verbalization about one's auditory experiences can lead to enhanced enjoyment and understanding.

Prerequisite: MUS 100.

AC 250-251 Health-Medical Behavioral Sciences (4)

The study of human behavior, institutions, professions, and professionalism in the health-medical fields. Emphasis is placed on issues such as: concepts of health and illness, death and dying, the sick role, doctor-patient relationships,

organization and delivery of health care, legal and ethical problems and culture, and the politics of health and health care and many related concerns.

AC 300 Applied Research in the Behavioral Sciences (4, 8, 12, or 16)

A semester of independent study and applied research undertaken away from the university. Projects will be developed in cooperation with and supervised by Allport faculty within the framework of methodology and explanation in the behavioral sciences.

Prerequisite: AC 101-102.

AC 400 Field Practicum in Health-Medical Behavioral Sciences (4, 8, 12 or 16)

Intended primarily for students seeking careers in health-related fields, this course offers the opportunity for a supervised field placement experience combined with academic content and individually guided research. Placements are made through special arrangements with various hospitals, government and voluntary health agencies, comprehensive medical service organizations, pharmaceutical companies, and other community agencies.

AC 499 Senior Seminar in Behavioral Sciences (4)

CONCENTRATION IN JUDAIC STUDIES

CHAIRPERSON: Peter G. Evarts (English and Learning Skills)

The university, in cooperation with the Midrasha College of Jewish Studies, provides courses which offer an opportunity to study the literature, philosophy, and religion of the Jewish people. The Midrasha is an undergraduate institution located in Southfield, Michigan, which specializes in Hebraic and Judaic studies. It grants both the degree of Bachelor of Hebrew Literature and the degree of Bachelor of Jewish Studies.

A student must be formally admitted to the concentration. The requirement for completion is 20 credits chosen from the following courses: CLS/ENG/REL 211, CLS/HST 396 and 397, ENG 341, HST 398, and REL 202.

CONCENTRATION IN PUBLIC MANAGEMENT

COORDINATORS: Roger Marz (Political Science) and Karl Gregory (Economics and Management)

The Department of Political Science, in cooperation with the School of Economics and Management, offers a concentration in Public Management. By the meshing of appropriate courses in political science, economics, management, and mathematics, the student will acquire skills essential to administrative responsibilities in government and other public and community agencies.

The required courses for the concentration are: PS 100, 205, 251, and 351; ECN 100, 101, and 301; MGT 200 and 436, and MTH 121 and 122.

CONCENTRATION IN PREPROFESSIONAL STUDIES IN MEDICINE AND DENTISTRY

CHAIRPERSON: Moon J. Pak (Biological Sciences)

COMMITTEE: Gottfried Brieger (Chemistry), Allen K. Hess (Psychology), John R. Reddan (Biological Sciences), Robert L. Stern (Chemistry), Nalin J. Unakar (Biological Sciences), Barry Winkler (Biological Sciences)

Students intending to pursue careers in the medical, osteopathic, or dental professions are expected to complete a concentration consisting of the following:

1. Biology, 15 credits, including laboratories.
2. Chemistry, 20 credits, including laboratories.
3. Mathematics, 8 credits.
4. Physics, 10 credits, including laboratories.

This represents the minimum requirements for admission to the various medical, osteopathic, and dental schools in Michigan and elsewhere. This concentration does not constitute a major. Students must elect a major from among those offered by the university. Interested students must consult the advisory committee so as to receive counseling and assistance in planning their academic programs.

CONCENTRATION IN PUBLIC AND SOCIETAL SYSTEMS

CHAIRPERSON: Robert H. Edgerton (Engineering)

COMMITTEE: William F. Moorhouse (Education), Philip Singer (Allport College)

The concentration in Public and Societal Systems is offered by the School of Engineering and is available to students throughout the university. The concentration promotes interdisciplinary work among engineers, economists, sociologists, and managers. It assists in the preparation of students with major career objectives in areas of public concern such as health-care delivery, pollution control, public safety, urban planning, and environmental and resource management. Systems analysis and design methods are employed in many of these fields. The characteristic elements and components of each of these fields of specialization differ but there is a unifying basis for understanding and com-

munication particularly in the area of public services and community development.

The concentration includes courses taught in the College of Arts and Sciences, the School of Economics and Management, and the School of Engineering combined to strengthen the students' multidisciplinary background needed for work on societal problems.

The minimum course requirement for the concentration in Public and Societal Systems is 20 credits. The following two courses are required of all participating students:

PSS 100 Public and Societal Systems (4)

Methods of engineering and systems analysis are introduced as tools for solving public and societal problems. Typical examples in environment, health-care delivery, law enforcement, recreation, and education will be discussed. Emphasis is placed on the development of new strategies of change and the implementation of technological innovations.

PSS 200 Public and Societal Systems Seminar (4)

In choosing courses for the remaining 12 credits, at least 8 credits must be selected from appropriate courses outside the student's major field. Students must have their program of study approved by their advisor with concurrence of the Public and Societal Systems Concentration Committee. Any academic unit may require more than these minimum requirements and may impose further restrictions on course selection.

CONCENTRATION IN RELIGIOUS STUDIES

CHAIRPERSON: Richard J. Burke (Philosophy)

The Religious Studies program offers a series of courses on religion, both Western and Eastern, traditional and contemporary. These courses do not seek to confirm or attack any particular religious point of view; they are taught in the same scholarly and objective spirit as the other courses in the university and aim at understanding a pervasive human phenomenon. They are grouped into two types: historical studies and systematic studies.

At present, the program offers a concentration in Religious Studies consisting of at least 20 credits in religion, which may be taken jointly with a modified major (24 credits) in either philosophy or sociology and anthropology, 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 concentration will receive the support of the Committee on Reli-

gious Studies. Interested students should see the concentration chairperson for further information.

In addition to the religion courses, several collateral courses are suggested. They are CLS/ENG 312, HST 325, CLS/HST 397, and PHL 205.

Courses with REL 200 numbers only require sophomore standing; courses with REL 300 numbers require one previous course in Religious Studies at Oakland, unless identical with departmental courses having different prerequisites.

COURSE OFFERINGS

Historical Studies

REL 200 Topics in the Historical Study of Religion (4)

The topic varies. Sample topics include: the New Testament, medieval mysticism, early Buddhism, the Protestant Reformation, Christ and Caesar, eighteenth and nineteenth century attacks on religion. May be repeated for credit.

REL 202 The Jewish Tradition (4)

Selected ideas and institutions in the development of Judaism from its pre-exilic roots to the present. Offered every two years.

REL 203 The Christian Tradition (4)

Study of the most important Christian ideas and institutions from Jesus to the present. Offered every two years.

REL 211 Old Testament Literature (4)

Identical with CLS/ENG 211.

REL 250 Philosophies and Religions of Asia (4)

Identical with PHL 250.

REL 295 Contemporary Religious Movements (4)

Begins with a review of institutional religion in America, then surveys underground church movements, Zen, Yoga, TM, and others. Field work possible.

REL 304 The Islamic Tradition (4)

Selected ideas and institutions in the history of Islam. Offered every two years.

REL 307 American Religious History (4)

Identical with HST 307

Systematic Studies

REL 220 Topics in the Systematic Study of Religion (4)

The topic varies. Sample topics include: mythology, psychoanalysis and religion, religion and education, types of religious communities, shamanism, the hero. May be repeated for credit.

REL 225 Philosophy of Religion (4)

Identical with PHL 225.

REL 227 Psychology of Religion (4)

Basic data of religious experience in its relation to motivation, cognitive structure, and personality; problems of religious symbolism, verbal and nonverbal;

dynamics of religious movements; growth, propagation, and preservation of orthodoxy; varieties of reform. Offered every two years.

REL 229 Religion and Literature (4)

Study of a few masterpieces of world religious literature, such as Greek tragedy, Hindu epic, Dante and Milton, with an attempt to generalize about the use of religious themes in literature and about literature as an expression of religious belief. Offered every two years.

REL 271 Magic, Witchcraft, and Religion (4)

Identical with AN 271.

REL 291 Religion and Contemporary Moral Problems (4)

Investigation of the theological and ethical reasons for the emergence of a new attitude toward moral questions. Protestant, Catholic, Jewish and secular viewpoints on some of these: love, sex, civil disobedience, criminal punishment, violence, war, suicide, and death. Offered every two years.

REL 305 Sociology of Religion (4)

Identical with SOC 305.

REL 390 Directed Readings in the Study of Religion (4)

Individual study of a topic not covered by regular courses, with the guidance of a faculty tutor. May be repeated for credit.

Prerequisite: Permission of concentration chairperson.

CONCENTRATION IN SOCIAL JUSTICE AND CORRECTIONS

CHAIRPERSON: Jesse R. Pitts (Sociology and Anthropology)

This concentration requires a minimum of 20 credits and is intended to be taken in conjunction with a full major in any department of the college. It will provide career-oriented education for students interested 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.

A student must be formally admitted to the program and meet the following requirements:

1. 12 credits chosen from SOC 320, SOC 425, SOC 327, SOE 323, PS 241, and PS 343.
2. 4 or 8 credits of SOC 430.

With the permission of the concentration chairperson, students may substitute the following courses for those above: PSY 220, PSY 273, PS 342, PHL 221, SOC 437, and SOC 440.

SOCIAL STUDIES PROGRAM

The Social Studies program prepares students to teach in junior and senior high schools. Students of the program earn a Bachelor of Arts degree with a major in Social Studies and teacher certification.

The Social Studies major requires a core of social science courses with concentrated study in three social science content areas. A total of 40 credits is required for the major, including:

1. SS 100 and SS 200.
2. 16 credits in political science, evenly distributed between American politics and non-American/comparative politics.
3. 16 credits in history, evenly distributed between American history and world history.

Students in the major program must choose a minor from an associated area, such as sociology, psychology, history, or political science. Speech communication is not considered an associated area in this program. Should a student elect to minor in either political science or history, 16 credits in another social science or from an interdisciplinary social science group must be substituted in the major.

In addition to the major, a professional component of 36 credits in education is required. These courses are: ED 100, 200, 244, 245, 370, 428, 454, and 455.

Social Studies Minor

A minor in social studies requires the completion of SS 100 and 20 additional credits in the social sciences. At least three courses must be taken at the 200 level or higher. It is recommended that students concentrate in two of the social sciences, such that 8 credits would be earned in each. For example, a student could select 8 credits in political science, 8 credits in sociology, and earn the remaining credits in the other social sciences. Courses in area studies, geography, and environmental studies that are acceptable for social science distribution credits may also be applied toward the remaining credits.

COURSE OFFERINGS

SS 100 Introduction to Social Sciences (4)

This introductory course to an interdisciplinary program in social science provides an overview of the philosophical and historical development of individual social science disciplines (psychology, sociology, anthropology, political science,

history, economics, and geography). Students may examine key concepts, methods, and scholarly literature in these fields and apply their work to selected current issues through interdisciplinary models. This course is required of all social studies majors and minors. SS 100 may be used to satisfy the general education requirement in social science.

SS 200 Inquiry Skills for the Social Scientist (4)

This course continues the interdisciplinary focus begun in SS 100. Current issues form its content. Students are expected to apply interdisciplinary investigative models to these issues in an effort to effect problem solution. Students will be provided a short-term field assignment. This course is required of all social studies majors.

Prerequisite: SS 100.

Teaching Minor in Science

The teaching minor in science requires a minimum of 24 credits, selected from courses offered by the departments of Biological Sciences, Chemistry, and Physics. Course selections must cover two of the three disciplines and must include 12 credits in each discipline applied to the minor. All courses must be at the levels of BIO 111, CHM 104, PHY 101, or above, and they may not include courses in the discipline of the student's major.

PRE-LAW STUDIES

ADVISER: Thomas W. Church, Jr. (Political Science)

There is no formalized pre-law curriculum at Oakland because no set of specific courses is necessary for either admission to, or success in, American law schools. Students planning to attend law school after graduation should major in a field in which they have both interest and aptitude; the actual field is considerably less important for admission than the overall success of the student in his college training as measured by cumulative grade point average and scores on the Law School Aptitude Test.

Rather than mastery of any particular subject matter, law schools require of the incoming student certain basic skills, particularly the ability to think logically and to express oneself orally and in writing in a coherent and precise manner. No one academic discipline possesses a monopoly on development of these abilities. The best advice to students planning legal careers is to choose courses that emphasize analytical thinking and critical writing and to do well in them.

If there are any specific courses that might be recommended to pre-law students because of the subject matter, they would be courses which deal with the operation of American institutions: particularly the basic courses in American politics, history, and

economics. For those students interested in general questions about law or legal techniques—from the perspective of the liberal arts and not as a technical discipline as taught in law school—the following courses should be of some interest: PHL 319, PS 241, PS 272, PS 273, PS 342, PS 343, and SOC 320. It must be emphasized, however, that none of these courses is in anyway required for, or restricted to, pre-law students.

Both the library and the Department of Political Science maintain a collection of law school catalogs; a member of the Department of Political Science serves as the pre-law adviser for students with specific questions or problems. Booklets containing application forms for the Law School Aptitude Test should be obtained early in the senior year from the Career Advising and Placement office or the Political Science Department.

OFF-CAMPUS STUDIES PROGRAMS

The College of Arts and Sciences administers an off-campus independent study program which allows a student to propose his/her own course of study for the semester off-campus. The following standards and procedures apply:

1. Any undergraduate student in good standing will be eligible to participate in the program after the completion of two semesters in residence.
2. A written proposal describing a course of activity will be prepared by a student applicant prior to beginning the program.
3. This proposal and the off-campus work it describes must receive the support and involvement of at least three members of the faculty and the approval of the dean.
4. All arrangements for off-campus work must be completed and filed by the end of the advising period in the semester preceding the semester of off-campus study.
5. It is expected that part of the preparatory work will include the designation of course equivalents totaling at least 8 credits for the independent study to be accomplished. This is to be effected by negotiation with the supporting faculty members.
6. Whenever credit is sought toward the completion of a major, the department, through its chairperson must agree to the value of the independent work.
7. The dean of the college will require a release from parents absolving the university of responsibility for the well-being of students under 18 years of age while they are participating in off-campus independent study.

8. The initial approval of a program for a student will be for one semester with the provision that the student may request an extension of the program for additional semesters.
9. The student must be registered at Oakland University and pay the required fees during the period of independent study.

Students interested in overseas study programs sponsored by other universities and organizations, both domestic and foreign, should contact the Overseas Study Information Center located in the Department of Modern Languages. Information on work-study opportunities sponsored by institutions other than Oakland University can be obtained from the Placement Office and from the Department of Modern Languages and Literatures.

SCHOOL OF ECONOMICS AND MANAGEMENT

OFFICE OF THE DEAN

Norton C. Seeber, Dean
Eleftherios N. Botsas, Chairperson, Department of Economics
John E. Tower, Assistant Dean
Harvey A. Shapiro, Assistant to the Dean

PROFESSORS: Robbin R. Hough, Siddheshwar Mittra, Norton C. Seeber, Andrew C. Stedry

ASSOCIATE PROFESSORS: Eleftherios N. Botsas, Daniel N. Braunstein, David P. Doane, Karl D. Gregory, John E. Tower, Alan G. Weinstein

ASSISTANT PROFESSORS: Alice C. Gorlin, Douglas D. Gregory, Kenneth B. Moberg, Gadis Nowell, Richard M. Reese, Eugene F. Stone, Socrates D. Tountas

INSTRUCTORS: Diane B. Herker, Harvey A. Shapiro

ADJUNCT PROFESSOR: Theodore O. Yntema

VISITING LECTURERS: Paul Banas, Jack Parrish, Charles T. Weber

The School of Economics and Management offers programs for persons interested in obtaining the skills and information necessary for the management of profit-making businesses, not-for-profit enterprises (e.g., health care institutions, educational institutions, cooperative societies), and governmental units. The programs include: a Bachelor of Arts in Economics, a Bachelor of Science in Management, a Bachelor of Science with an independent concentration, as well as concentrations in Management, Economics, International Management, and International Economics for students earning degrees in other schools and colleges of the university.

The school also offers concentrations in a functional field for students in the Bachelor of Science in Management program. These concentrations include Accounting/Finance, Economics, Human Resources Management, and Public Management. Stu-

dents in either economics or management may also earn concentrations offered by other units in the university.

The School of Economics and Management offers a Master of Science in Management degree. Consult the *Oakland University Graduate Study Catalog, Volume I* for more information.

The curriculum described below is effective for students entering the university in 1975-76 and thereafter. Students enrolled prior to 1975 may, at their option, satisfy either the present or the older requirements for graduation.

UNDERGRADUATE PROGRAM LEADING TO THE BACHELOR OF ARTS IN ECONOMICS

If a student elects the liberal arts major in economics, he/she will have the opportunity to combine an emphasis on the concepts and tools of economic analysis, a broad general education, and the freedom to take several courses in other areas of interest. The student will begin to learn to apply economic analysis to major problems that face the nation and the world today.

An education in economics is an excellent background for professional education in graduate schools of business administration, public administration, or management and in law schools. For students who plan to enter the work force directly after graduation, the economics degree provides entrance to management training programs in larger companies, to civil service jobs in government, and to employment in other not-for-profit institutions. To be employed as a professional economist or to teach economics, a student normally will have to proceed on to graduate school and obtain at least a master's degree in economics and preferably a doctorate.

Requirements for the Degree of Bachelor of Arts in Economics

A student with a major in economics must meet the following requirements in order to graduate:

1. Have completed at least 124 credits.
2. Have completed 32 credits at Oakland University.
3. Have completed, in residence at Oakland, the last 8 credits needed to complete the baccalaureate requirements.
4. Have a cumulative grade point average of at least 2.00 in courses taken at Oakland University and in courses in the major.

5. Have completed at least 8 credits in electives.
6. Have obtained a certification of English proficiency as described on page 38 of this catalog.
7. Have completed a general education program of 32 credits.
8. Have completed the requirements for a major in economics.
9. Be in substantial compliance with all legal curricular requirements.

General Education

Economics students satisfy the general education requirement by completing the general education program of the College of Arts and Sciences, as described on page 37 of this catalog, or by fulfilling the requirements of the New-Charter College program, as described on page 286.

Economics Major Requirements

1. To obtain a background in mathematics, computers, and another social science discipline the student is required to take the following cognate courses:

MTH 121-122 Introductory Mathematics for the Social Sciences

or

MTH 154-155 Calculus

MGT 203 BASIC Programing (or any other course in computer programing)

Social Science Two courses in one of the social sciences other than economics.

2. The required economics core program courses are:

ECN 100-101 Introduction to Economics I and II

ECN 301 Microeconomic Analysis

ECN 302 Macroeconomic Analysis

ECN 304 Statistical Methods for the Social Sciences

ECN 418 or Selected Topics in Economic Policy or
ECN 480 Seminar in Economics

3. The Economics elective requirement is 16 additional credits in courses numbered ECN 300 or higher. Eight of these economics elective credits must be in courses numbered ECN 400 or

higher. No more than 4 credits in ECN 392, 490, 494, or 497 may be used as a required economics elective.

Requirements For Major Standing

Admission to major standing in economics requires: certification of English proficiency; completion of ECN 100-101, ECN 301, ECN 302, ECN 304, MTH 121-122 (or equivalent); completion of 56 credits or more; and at least a 2.00 cumulative grade point average overall and in major courses.

UNDERGRADUATE PROGRAM LEADING TO THE BACHELOR OF SCIENCE (INDEPENDENT CONCENTRATION)

Students wishing to pursue special interests may develop independent concentrations leading to the degree of Bachelor of Science in the School of Economics and Management. This independent concentration will be designed by the student and one or more faculty advisers. A Plan of Work is to be submitted as early as possible by the student and his/her adviser to the Committee on Instruction. The approval of the Plan of Work by the committee is required for all independent concentrations and for any deviation from the Plan of Work.

The student with an independent concentration must meet the following requirements in order to graduate:

1. Have completed at least 124 credits.
2. Have completed 32 credits at Oakland University.
3. Have completed, in residence at Oakland, the last 8 credits needed to complete the baccalaureate requirements.
4. Have a cumulative grade point average of at least 2.00 in courses taken at Oakland University and in courses in the concentration.
5. Have completed at least 8 credits in electives.
6. Have obtained certification of his/her English proficiency, as described on page 38.
7. Have completed at least 32 credits in the general education program described on page 37.
8. Have successfully completed a Plan of Work developed with a faculty adviser and approved by the Committee on Instruction of the School of Economics and Management.
9. Be in substantial compliance with all legal curricular requirements.

Requirements For Major Standing

Admission to major standing requires: certification in English proficiency, a total of 56 credits completed, a cumulative grade point average of 2.00 or better, and an approved Plan of Work.

UNDERGRADUATE PROGRAM LEADING TO THE BACHELOR OF SCIENCE IN MANAGEMENT

The management program provides an education for management (i.e., the effective use of resources for defined objectives), rather than an education which describes the practices and institutions of business. The program aims to develop the transferable skills which make adaptive and innovative learners, and it enables graduates to understand and manage changing situations, whether these be in profit-oriented enterprises or in not-for-profit enterprises, public or private. In this program, a general education is combined with the development of analytical approaches which will enable the student to find new answers to the increasingly complex and changing problems faced by managers and technical personnel in both private business and public organizations. Because education for management is a continuing process throughout a management career, the program seeks to give students the kind of experience that will provide the foundation for adaptability within our rapidly changing modern environment.

The management major obtains the background necessary for entering into many positions in business, government, and administration; industry training programs; or graduate schools of management. The program's emphasis on analysis and analytical tools, such as the computer, opens the way to positions in many areas of rapidly developing technology and expanding employment opportunities.

To aid in obtaining initial entry into various positions in business, government, and other institutions, the management program offers the student opportunity to concentrate elective work either in a functional area of management or in some area of academic interest outside of management.

Requirements for the Degree of Bachelor of Science in Management

A student with a major in management must meet the following

requirements in order to graduate:

1. Have completed at least 124 credits.
2. Have completed 32 credits at Oakland University.
3. Have completed, in residence at Oakland, the last 8 credits needed to complete the baccalaureate requirements.
4. Have a cumulative grade point average of at least 2.00 in courses taken at Oakland University and in courses in the major, including the cognate courses.
5. Have completed at least 8 credits in electives.
6. Have obtained certification of English proficiency, as described on page 38.
7. Have completed a general education program of 28 credits.
8. Have completed the management major requirements.
9. Be in substantial compliance with all legal curricular requirements.

General Education

Students in management may satisfy the general education requirement by meeting the requirements described below or by participating in the program of New-Charter College. The School of Economics and Management requires that each student take at least 28 credits in general education, (see page 37 for a detailed description) distributed as follows:

1. One course from each of the arts, letters, natural sciences, and area studies groups.
2. One additional course in one of the areas listed above or in symbolic systems.
3. Two courses in one of the social sciences other than economics.

Management Major Requirements

1. To obtain a basic set of skills useful in management, the student is required to take the following as economic and mathematic cognate courses:

MTH 122-122	Introductory Mathematics for the Social
or	Sciences or
MTH 154-155	Calculus
ECN 100-101	Introduction to Economics, I and II
ECN 301	Microwave Analysis

2. Required management core courses:

MGT 200	Introductory Financial Accounting
MGT 203	BASIC Programing (or any other course in computer programing)

MGT 304	Statistical Methods for Management
MGT 306	Management Systems Analysis
MGT 330	Organizational Behavior I
MGT 331	Organizational Behavior II
MGT 435 or MGT 436	Management Strategies and Policies or Public Management Strategies and Policies

Choice of a quantitative methods course:

MGT 305	Computer Systems for Problem Solving
MGT 340	Quantitative Methods of Management Science
MGT 442	Operations Research
MGT 443	Operations Management
ECN 405	Econometrics
MTH 322	Mathematical Models in the Social Sciences

3. The student completes his/her work in management by electing 16 additional credits offered by the School of Economics and Management. These electives must be chosen from among the economics or management courses numbered 300 or higher. At least 8 credits must be at the 400 level. No more than 4 credits in MGT 390, 392, 490, or 494 may be used as a required elective. To guide the student in the selection of these electives and to allow him/her to indicate his/her area of interest, concentrations in Accounting/Finance, Human Resources Management, and Public Management have been developed.

Requirements For Major Standing

Admission to major standing requires: certification in English proficiency; the completion of ECN 100-101, ECN 301, MGT 200, MGT 304, and MTH 121-122 (or equivalent); the completion of 56 credits; and a cumulative grade point average of 2.00 overall and in management, economics, and required math courses.

INTERNAL CONCENTRATIONS FOR MANAGEMENT MAJORS

To guide the student in the selection of his/her management curriculum, the School of Economics and Management has developed the following concentrations in specific management areas. These concentrations typically consist of a suggested set of 18-25 credits of ECN/MGT courses which will provide the student with more extensive training in a specific functional field of management.

Concentration in Accounting/Finance

COORDINATOR: John Tower

The concentration in Accounting/Finance develops the specific skills, modes of analysis, and institutional information useful in working in the accounting and financial areas of a profit-making business or not-for-profit enterprise. It is designed for students who plan to enter the financial areas of enterprises, rather than as a preparation for a career as a certified public accountant (CPA). The concentration program includes advanced work in accounting and basic and advanced work in finance.

The concentration in Accounting/Finance consists of 25 credits specified as follows:

- MGT 200 Introductory Financial Accounting
- MGT 310 Cost Accounting and Budgeting
- MGT 311 Intermediate Accounting
- MGT 322 Managerial Finance I

Choose two courses from the following list of electives, at least one of which has to be a 400-level course:

- MGT 320 Personal Financial Management
- MGT 321 Monetary and Fiscal Theory and Policy
- ECN 323 International Economic Relations
- MGT 411 Auditing
- MGT 412 Behavioral Effects of Accounting Information
- MGT 421 Investment Analysis
- MGT 422 Managerial Finance II
- MGT 423 The Multinational Firm

Concentration in Human Resources Management

COORDINATOR: Daniel N. Braunstein

The concentration in Human Resources Management develops the requisite skills to administer the various personnel functions in organizations. It is primarily for students who intend to pursue careers where the management of people at work is a central concern (e.g., personnel management, labor relations, and first-line supervision). Emphasis is placed on acquiring an in-depth understanding of the tools and techniques used in the acquisition, development, and utilization of an organization's human resources. As such, the program will include broad coverage of such topics as personnel psychology, personnel administration, and labor-management relations, in addition to a basic knowledge of organizational behavior.

The concentration in Human Resources Management consists of 24 credits specified as follows:

MGT 330-331	Organizational Behavior I-II
MGT 433	Labor-Management Relations
MGT 434	Management of Human Resources

Two courses from among the following:

MGT 430	Assessment of Organizational Behavior
MGT 431	Leadership and Group Performance
MGT 432	Motivation and Work Behavior
MGT 437	Job Design
ECN 368	The Economics of Human Resources

Students wishing to pursue this concentration are advised to take MGT 330 and MGT 331 in their second year.

Concentration in Public Management

COORDINATOR: Karl D. Gregory

The concentration in Public Management is offered jointly with the Department of Political Science. It is designed to provide the student with a more extensive understanding of the institutions and operations of the political system and of governmental agencies. The student obtains some of the particular skills and perspectives that relate to working for nonprofit enterprises and, in particular, governmental units.

The concentration in Public Management consists of 24 credits specified as follows:

ECN 336	The Economics of the Public Sector
PS 100	American Politics
PS 205	Politics of the Local Community
PS 251	Public Administration
PS 351	Public Budgeting
MGT 436	Public Management Strategies and Policies

CONCENTRATIONS IN MANAGEMENT OR ECONOMICS FOR OTHER MAJORS

Concentration in Management

COORDINATOR: John Tower

For students in other majors who would like to combine their major with an introduction to the skills, analytical technique, and institutional material obtained in management courses, the School of Economics and Management offers a concentration in

management. The concentration in management requires that a student take 25 credits. The courses required are:

- ECN 100-101 Introduction to Economics I-II
- MGT 200 Introductory Financial Accounting
- MGT 330 Organizational Behavior I
- 2 MGT Electives (300 or 400 level)

Concentration in International Management

COORDINATOR: Eleftherios N. Botsas

For students in other majors, particularly Modern Languages and Area Studies, who would like to combine their major with an introduction to the skills, analytical technique, and institutional material related to international management and the multinational firm, the School of Economics and Management offers the concentration in international management. The concentration in international management requires that the student take 25 credits as follows:

- ECN 100-101 Introduction to Economics I-II
- ECN 323 International Economic Relations
- MGT 200 Introductory Financial Accounting
- MGT 330 Organizational Behavior I
- MGT 423 The Multinational Firm

Concentration in Economics

COORDINATOR: John Tower

For students in other majors who would like to combine their major with an introduction to economic theory and its application to the problems of this world, the Department of Economics offers a concentration in economics. The concentration in economics requires that a student take 20 credits, as follows:

- ECN 100-101 Introduction to Economics I-II
- Statistics (ECN 304, SOC 203, PSY 252, PS 181, MTH 125, or MTH 225)
- Two ECN Electives (300 or 400 level)

Concentration in International Economics

COORDINATOR: Eleftherios Botsas

For students in other majors who would like to combine a knowledge of international economics with their major, the Depart-

ment of Economics offers a concentration in international economics. The concentration in international economics requires that a student take 20 credits as follows:

- ECN 100-101 Introduction to Economics I-II
 Statistics (ECN 304, SOC 203, PSY 252, PS 181, MTH 125,
 or MTH 225)
 ECN 323 International Economic Relations
 ECN 423 The Multinational Firm

COURSE OFFERINGS IN ECONOMICS

Basic Courses

The following courses are part of the basic program of the economics major and will be offered each year.

ECN 100 Introduction to Economics I (4)

An introduction to the tools and analysis of economics. Analysis of the dynamics of a market system, the determination of national income, money and banking, the control of unemployment and inflation, short- and long-run economic growth, and international economics, i.e., macroeconomics. Offered fall and winter semesters.

Prerequisite: High school algebra.

ECN 101 Introduction to Economics II (4)

Analysis of consumer behavior, decision-making in the firm, market structure and performance, labor and other factor markets, government expenditures, and taxes, i.e., microeconomics. Applications of microeconomic analysis to urban, environmental, energy, income maintenance, health, education, food, and fertility markets. Offered fall and winter semesters.

Prerequisite: ECN 100.

ECN 169 Introduction to the Political Economy of Capitalism (4)

An introduction to the traditional and radical economic analysis of the capitalist economy. Topics include: microeconomics—the development of the market system, monopoly, discrimination, pollution, and poverty; macroeconomics—economic activity, unemployment, inflation, defense spending, growth and underdevelopment, and imperialism; and alternative economic systems. This course is not open to majors in economics and management.

ECN 301 Intermediate Microeconomic Analysis (4)

Analysis of pricing, resource allocation, and income distribution at the level of the individual firm, industry, and household consuming unit. Offered fall and winter semesters.

Prerequisite: ECN 101 and MTH 122 (latter may be taken concurrently).

ECN 302 Intermediate Macroeconomic Analysis (4)

The construction, analysis, and interpretation of models of aggregate economic behavior, including the policy implications of alternative models. Offered fall and winter semesters.

Prerequisite: ECN 101 and MTH 121 (latter may be taken concurrently).

ECN 304 Statistical Methods for the Social Sciences (5)

Statistical techniques useful in business and economic analysis. Emphasis on statistical inference, including hypothesis testing, estimation, and regression techniques. Offered fall, winter, and spring semesters. Identical with MGT 304.

Prerequisite: MTH 122 or MTH 154.

Economics Electives

Following is a list of economics electives which have been offered by members of the faculty in the past three years. Any new course offering, change in the description of a course, or any change in the prerequisites for a course will be announced in a supplementary bulletin published during the advising period for a given semester.

The following 200-level economics courses are designed for students not majoring in economics or management. They may be taken by economics or management majors but they cannot be used as one of the four required electives in the major.

ECN 208 Economics of the Environment (4)

Application of the tools of economical analysis to the problems of energy, ecology, and the environment. Topics covered include: measures of the quality of life, the limits to economic growth, the economics of externalities and public goods, cost-benefit analysis, and the analysis of public policy.

Prerequisite: ECN 100 or ECN 169.

ECN 220 Minority Economic Development (4)

Analysis of the current economic status of minority groups in America, market consequences of discrimination, evaluation of alternative strategies for economic development, and the critical review of recent public economic policies and their impact on change.

Prerequisite: ECN 100 or ECN 169.

ECN 221 Economics of the Afro-American Experience (4)

Application of the tools of economic analysis to: the current economic status of Afro-Americans, the economic history of Afro-Americans, the market consequences of discrimination, the evaluation of alternative strategies for economic development, and the critical review of recent public economic policies.

ECN 222 The Economic Status of Women (4)

Application of economic analysis to the role and status of women in the modern industrial economy. Topics include the relationship between women and consumption, women in the labor market, and the relationship between the family structure and economic activity.

Prerequisite: ECN 101 or 169.

ECN 223 The Indian Economy (4)

The economic problems of developing nations in the context of the Indian economy.

Prerequisite: Permission of instructor.

ECN 225 American Economic Growth and Development (4)

Study of the people, institutions, events, and overall trends in the American economy since colonial times. Emphasizes qualitative and quantitative patterns of change in resource organization for social and private goals.

Prerequisite: Sophomore standing.

ECN 251 The Soviet Economy (4)

The history of Soviet economic development; analysis of the principles of opera-

tion of the Soviet economy, with emphasis on planning techniques; the relationship between administrative structure and decision-making; and problems of resource allocation.

Prerequisite: ECN 101 or ECN 169.

The following 300-level economics electives are designed for majors in economics and management. Major standing is not required to take these courses, but some of them will have specific prerequisites or corequisites. Nonmajors may take these courses if they meet the prerequisites.

ECN 303 Economic Growth, Fluctuations, and Forecasting (4)

Analysis and modeling of the forces underlying economic growth in advanced nations. Study of business conditions and various factors affecting business fluctuations. Introduction to economic forecasting techniques for the individual firm and for the national economy. Identical with MGT 303. Offered fall semester.

Prerequisite: ECN 101.

ECN 306 Systems Analysis (4)

Emphasizes the identification of goals and the use of resources for achieving goals through the application of analytical and quantitative tools developed in earlier courses to problems drawn from a variety of experiences, e.g., financial management, marketing, production, and capital budgeting. Identical with MGT 306. Offered fall and winter semesters.

Prerequisite: ECN 301.

ECN 308 Urban-Regional Economics (4)

Application of the tools of economic analysis to the problems of the determination of the level, distribution, growth, and stability of income within and among urban regions. Study of the impact of these processes on spatial organization, transportation, industrial location, and the provision of public services.

Prerequisite: ECN 101.

ECN 309 Metropolis: Problems and Policies (4)

A survey of the economics of urban problems in the United States. Includes the analysis of urban poverty, land use, transportation, and environmental quality; discussion of the economics of political fragmentation and the nature of national urban policy.

Prerequisite: ECN 308.

ECN 321 Monetary and Fiscal Theory and Policy (4)

Analysis of modern monetary, banking, and fiscal theories and policies. The course investigates both domestic and international monetary analysis and policies, and the relationship between monetary and fiscal policies as they affect the economy. Offered fall semester.

Prerequisite: ECN 101.

ECN 322 Managerial Finance I (4)

The basic elements of managerial finance. Topics covered include: capital budgeting techniques, financial structure and analysis, the cost of capital, and working capital management. Offered fall and winter semesters. Identical with MGT 322.

Prerequisite: ECN 301 and MGT 200.

ECN 323 International Economic Relations (4)

An introduction to elementary international trade theory, the international monetary mechanism, exchange-rate regimes, the balance of payments, and eco-

conomic interdependence.

Prerequisite: ECN 101.

ECN 324 Business in the American Economy (4)

Public attitudes toward the government regulation of business in our free enterprise society. Students are exposed to legal, social, and moral responsibilities of business to the individual, the community, the society, and the government. Identical with MGT 324.

Prerequisite: ECN 301.

ECN 325 Industrial Organization (4)

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 and implications for public policy. Identical with MGT 325. Offered fall semester.

Prerequisite: ECN 301

ECN 326 Economic Development (4)

Application of the tools of economic analysis to the problems of economic development and growth.

Prerequisite: ECN 101.

ECN 327 African Economic Development (4)

The application of the tools of economic analysis to: the historical development of African economies, the evaluation of current strategies for their economic development, and the role of the developed countries.

Prerequisite: ECN 101.

ECN 328 American Economic History (4)

Models and case studies of selected events in the growth and development of the American economy from colonial times to the present. Emphasizes the evolution of historical thought under the impact of economic analysis.

Prerequisite: ECN 101 and ECN 304.

ECN 336 Economics of the Public Sector (4)

A study of the role and impact of the public sector in a market economy. Includes expenditure determination, revenue source analysis, and discussion of current problems.

Prerequisite: ECN 301.

ECN 350 Comparative Economic Systems (4)

Comparative analysis of alternative forms of economic organization. The relationships between the economic system and resource allocation, pricing, income distribution, and growth. Capitalism, market socialism, and central planning are emphasized.

Prerequisite: ECN 301.

ECN 368 Economics of Human Resources (4)

Economic analysis of the functioning of labor markets, with emphasis on investment in human capital; the role of education; unemployment; labor market differentiation by race, sex, and age; the geographic and occupational mobility of labor; and the inflation-unemployment trade-off.

Prerequisite: ECN 301.

ECN 392 Directed Readings in Economics (2)

Independent but directed readings for junior and senior majors in fields of economics in which advanced courses are not available. Offered every semester.

Prerequisite: An approved contract.

The following 400-level economics electives are designed for economics and management students who have achieved major standing.

ECN 400 Advanced Systems Analysis (4)

The course engages topics in the modeling, instrumentation, and control of complex systems. Particular emphasis is placed on the specification, testing, and implementation of policies in environments in which direct controls must be foregone in favor of educational control policies. Identical with MGT 400.

Prerequisite: Major standing and ECN 306.

ECN 405 Econometrics (4)

An introduction to the testing of economic models, expressed mathematically, by statistical methods.

Prerequisite: Major standing and permission of instructor.

ECN 417 Advanced Economic Theory (4)

This course covers selected topics in the economic theory of resource allocation, economic growth, and stability. Topics change from time to time.

Prerequisite: Major standing.

ECN 418 Selected Topics in Economic Policy (4)

Prerequisite: Major standing.

ECN 420 International Trade and Finance (4)

The theory of international specialization and exchange, commercial policy, national income and balance of payments, monetary relations, foreign investment, and current issues of international economic policy.

Prerequisite: Major standing.

ECN 423 The Multinational Firm (4)

Analysis of the scope, structure, and environment (legal, social, political, and economic) with emphasis on management strategies of planning, marketing, location, and finance across cultural and national boundaries. Identical with MGT 423.

Prerequisite: ECN 323 or major standing.

ECN 433 Labor-Management Relations (4)

Analysis of management-employee relations in modern industry. Topics covered include: factors influencing the supply and demand for labor, evolution and government of trade unions, procedures and economic impact of collective bargaining, and public policy concerning labor and management relations. Identical with MGT 433.

Prerequisite: Major standing.

ECN 442 Operations Research (4)

Application of network models, nonlinear and dynamic programming, and other analytical techniques to decision-making in economics and management. Identical with MGT 422.

Prerequisite: Major standing and MGT 340.

ECN 444 Simulation in Economics (4)

An introduction to the use of simulation techniques in economic analysis. Identical with MGT 444.

Prerequisite: Major standing and ECN 306.

ECN 467 Economics of Health Care (4)

Application of the 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 the allocation of resources within the industry. Identical with MGT 467.

Prerequisite: Major standing.

ECN 480 Seminar in Economics (4)

Theses, individual topics, and readings. Offered winter semester.

Prerequisite: Major standing.

ECN 490 Independent Research (2 or 4)

Independent individual research on a topic chosen by the student and approved by the Committee on Instruction prior to the term in which the student elects this course.

Prerequisite: Major standing and an approved contract.

ECN 494 Independent Group Study (4)

Students in this course determine which current economic issues are of interest to them and prepare a program for pursuing these issues in depth. The course consists primarily of student participation, but students may draw upon the faculty for consultation and direction.

Prerequisite: Major standing and an approved contract.

ECN 497 Apprentice College Teaching (2)

An elective course open to any well-qualified upperclassperson who wins consent of a faculty member in his/her major field to assist in presenting a regular college course to underclasspersons.

Prerequisite: Major standing and an approved contract.

COURSE OFFERINGS IN MANAGEMENT

Basic Courses

The following management courses are part of the core program for the management major and normally will be offered each fall and winter and in either the spring or summer.

MGT 200 Introductory Financial Accounting (5)

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, derive financial statements, and analyze data presented in published financial reports.

Prerequisite: Sophomore standing.

MGT 203 BASIC Programing (2)

This course is an introduction to computer programing using the BASIC computer language and interacting through remote teletype terminals directly with Oakland's Burroughs computer.

MGT 205 Introduction to Computer Problem-Solving (4)

Introduction to the use of a computer as a tool in solving problems. Students learn the BASIC and FORTRAN languages in an interactive, time-sharing environment and are required to demonstrate proficiency through assigned problems. Offered fall semester.

Prerequisite: Knowledge of high school algebra.

MGT 304 Statistical Methods for Management (5)

Identical with ECN 304.

MGT 306 Management Systems Analysis (4)

Identical with ECN 306.

Management Electives

The following is a list and description of upper-level required and elective courses offered in the past three years in management. Any new course offering, change in the description of a course, or any change in the prerequisites for a course will be announced in a supplementary bulletin published during the advising period for a given semester. The following 300-level management courses should be taken by the student in his/her junior year (59-90 credits). The 300-level management electives are designed for management majors and students with concentrations in management. Major standing is not required for these courses but some of the courses have specific prerequisites or corequisites. Nonmajors may elect these courses if they meet the prerequisites.

MGT 303 Economic Growth, Fluctuations, and Forecasting (4)

Identical with ECN 303.

MGT 305 Computer Systems for Problem-Solving (4)

This is an advanced communications and problem-solving course in which students learn how to specify and design systems for computers. The course consists of field studies by groups of students which will lead to computerized prototype solutions of "real-world" problems. Offered winter semester.

Prerequisite: Programing experience in a higher level language (i.e., BASIC or FORTRAN).

MGT 310 Cost Accounting and Budgeting (4)

An in-depth analysis of accounting as a system to provide information for optimal managerial decisions and their implementation. Topics covered will include an analysis of various accounting, planning, and control models with a view toward effective and efficient cost control.

Prerequisite: MGT 200.

MGT 311 Intermediate Accounting (4)

An in-depth study of selected problems in accounting. Emphasis will be placed on external reporting and the use of accounting as the language of the financial community.

Prerequisite: MGT 200.

MGT 320 Personal Financial Management (4)

Students learn how to approach financial resource allocation problems. Each form of investment/saving is ranked according to risk/return criteria, and students are taught to apply the systems approach to personal money management.

Prerequisite: ECN 301.

MGT 321 Monetary and Fiscal Theory and Policy (4)

Identical with ECN 321.

MGT 322 Managerial Finance I (4)

Identical with ECN 322.

MGT 324 Business in the American Economy (4)

Identical with ECN 324.

MGT 325 Industrial Organization (4)

Identical with ECN 325.

MGT 330 Organizational Behavior I (4)

Exploration of the theoretical and empirical issues surrounding organizational management as it relates to individual and organizational processes, e.g., perception, learning, motivation, communication, decision-making, leadership, power, and authority. The course covers individual processes in organizations, interpersonal, and group processes. Identical with PSY 235. Offered in the fall and winter semesters.

Prerequisite: MGT 301 recommended.

MGT 331 Organizational Behavior II (4)

Analysis of organizational management through the study of groups and organizations. Organizations will be viewed from a "macro" perspective, i.e., the study of groups and the structures and processes of organizations. Emphasis is on theory and research from, e.g., social psychology and the sociology of organizations. Identical with PSY 236. Offered fall and winter semesters.

Prerequisite: MGT 301 and MGT 330.

MGT 334 Human Development in Organizations (4)

Surveys the developmental processes of employees in complex organizations both from a managerial and psychological standpoint. Topics to be covered include: personnel recruitment, selection, placement, training, and development; manpower planning; employee evaluation and reward systems; and job analysis and design. For nonmanagement majors only. Management majors should take MGT 434.

Prerequisite: Junior standing.

MGT 340 Quantitative Methods of Management Science (4)

Applications of statistics, linear programming, and other quantitative techniques to management problems.

Prerequisite: MTH 122 and MGT 301.

MGT 390 Apprentice College Teaching (2)

An elective course open to any well-qualified upperclassperson who has the consent of a faculty member in his major field to assist in presenting a regular college course to underclasspersons. Offered every semester.

Prerequisite: Major standing and an approved contract.

MGT 392 Directed Readings in Management (2)

Independent but directed readings for junior and senior majors in fields of management in which advanced courses are not available. Offered every semester.

Prerequisite: Major standing and an approved contract.

The following 400-level management electives are designed for management students who have achieved major standing.

MGT 400 Advanced Systems Analysis (4)

Identical with ECN 400.

Prerequisite: Major standing and MGT 306.

MGT 402 Marketing and Consumer Behavior (4)

Analysis of consumer behavior and its significance for market analysis. The rela-

tionship between market structure and marketing behavior. Offered fall semester.

Prerequisite: Major standing.

MGT 403 Marketing Management (4)

An in-depth study of a selected topic relevant to the management of the marketing function. Topics that may be covered include: marketing and society, advertising and the mass media, institutional marketing, distribution channel management, and promotional policies. This course may be repeated when a different topic is covered.

Prerequisite: MGT 402 and major standing.

MGT 411 Auditing (4)

An 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: MGT 311 and major standing.

MGT 412 Behavioral Effects of Accounting Information (4)

An examination of the application of the results of behavioral science to accounting, budgeting, and other management information and control systems.

Prerequisite: MGT 310, MGT 331, and major standing.

MGT 421 Investment Analysis (4)

The course provides a comprehensive treatment of the important aspects of security analysis and portfolio theory. Four areas will be covered: investment management and the money and capital markets, the analytical procedures for appraising securities, portfolio analysis, and the assessment of capital market efficiency.

Prerequisite: MGT 322 and major standing.

MGT 422 Managerial Finance II (4)

The application of the tools of financial analysis to specific cases in the financial management of corporate businesses and not-for-profit enterprises.

Prerequisite: MGT 322, MGT 200, and major standing.

MGT 423 The Multinational Firm (4)

Identical with ECN 423.

MGT 424 The Legal Environment of Enterprise (4)

The study of the legal framework in which business decisions are made and the types of economic conflict and political activity that has created this framework. Topics covered include: contracts, anti-trust legislation, conflict resolution, and regulatory agencies.

Prerequisite: Major standing.

MGT 430 Assessment of Organizational Behavior (4)

Use of findings and methods of various behavioral research strategies as input for managerial problem-solving. Comparison of case, experimental, survey, correlational, and other approaches. Review of various methods of individual and organizational measurement devices, including industrial tests, morale surveys, etc.

Prerequisite: MGT 331 and major standing.

MGT 431 Leadership and Group Performance (4)

A comprehensive examination of selected theories of leadership. Emphasis on relevant empirical evidence and application of the theories to case studies which

involve leadership behavior and group functioning.
Prerequisite: MGT 331 and major standing.

MGT 432 Motivation and Work Behavior (4)

Analysis and discussion of individual and organizational factors affecting employee motivation, performance, and satisfaction in the work environment. Topics covered 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: MGT 331 and major standing.

MGT 433 Labor-Management Relations (4)

Identical with ECN 433.

MGT 434 Management of Human Resources (4)

Exploration and analysis of the role of the personnel function in modern organizations. Topics covered include: job analysis and design; manpower planning; recruitment, selection, and placement; employee training and development; performance analysis and appraisal; compensation policies and practices; employee information systems; and personnel research techniques.
Prerequisite: MGT 331 and major standing.

MGT 435 Management Strategies and Policies (4)

The application of management tools of economics, statistics, organizational behavior, accounting, and quantitative methods to the systematic analysis of organizational case studies.
Prerequisite: Major standing and senior status.

**MGT 436 Public Management Strategies
and policies (4)**

The application of the management tools of economics, political science, statistics, accounting, and organizational behavior to the systematic analysis of case studies drawn from experience in the governmental sector or other not-for-profit enterprises.
Prerequisite: Major standing and senior status.

MGT 437 Job Design (4)

Alternative job design strategies will be evaluated from two perspectives, theory related to the structuring of organizational roles and findings of empirical research. Includes implications of alternative job design strategies for employee attitudes, motivation, and performance.
Prerequisite: MGT 304 and MGT 331.

MGT 442 Operations Research (4)

Identical with ECN 442.

MGT 443 Operations Management (4)

Analysis of the economic problems encountered in the management of productive processes in general manufacturing and service industries. Mathematical programming, statistical, and Monte Carlo methods will be used to solve problems of inventory management, quality control, plant and equipment investment, facility location, operations scheduling, etc.
Prerequisite: Major standing and MGT 340.

MGT 444 Simulation in Management (4)

Identical with ECN 444.

MGT 467 Health Care Organization (4)

Identical with ECN 467.

MGT 490 Independent Research (2 or 4)

Independent individual research on a topic chosen by the student and approved by the Committee on Instruction prior to the term in which the student elects this course. Offered every semester.

Prerequisite: Major standing and an approved contract.

MGT 494 Independent Group Study (4)

Students in this course determine which current management issues are of interest to them and prepare a program for pursuing these issues in depth. The course consists primarily of student participation, but students may draw upon the faculty for consultation and direction.

Prerequisite: Major standing and an approved contract.



SCHOOL OF EDUCATION

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VISITING INSTRUCTORS: Pearl Perkins, Janice Guerriero

UNDERGRADUATE CURRICULUM IN EDUCATION

The School of Education offers programs which prepare students for careers in teaching as well as related human service activities. The programs include a Bachelor of Science in elementary education, teaching certification for secondary education, and a Bachelor of Science in Human Resources.

The Elementary Education program enables a person to secure a Michigan teaching credential which certifies one to teach all subjects K-8, as well as the ninth grade subject areas of one's major or minor fields. Students in this B.S. program must take the planned program in Elementary Education which has been developed along a competency-based teacher education model.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN ELEMENTARY EDUCATION

In order to complete the Bachelor of Science degree, the student must:

1. Complete 124 credits.
2. Complete at least 32 of these credits at Oakland University.
3. Take the last 8 credits needed to complete the baccalaureate requirements in residence at Oakland University.
4. Have a cumulative grade-point average of at least 2.00.
5. Be in substantial compliance with all legal curricular requirements.
6. Satisfy the university requirement of proficiency in English composition as described on page 38.
7. Complete a general education requirement of 25 credits.
8. Complete a core program of 24 credits.
9. Complete the childhood curriculum studies program of 24 credits.
10. Complete ED 455.
11. Complete a major concentration of 36 credits, or two minor concentrations of 24 credits each, in a field outside of education.

General Education Requirement

The student must complete all the following courses: ENG 240,

SCS 105, ALS 176, MTH 310, MTH 311, and MUS 149. In addition, the student must also complete one of the following courses: SS 100, AS 062, AS 063, AS 064, AS 068, or AS 070.

Core Program

The student in elementary education must complete the following core program of 24 hours.

1. Foundation
 - ED 110 Public Education for the Future
2. Philosophy, Sociology, Anthropology, History
 - ED 210a Philosophical Analysis
 - ED 210b School and Society
 Plus any two of the following:
 - ED 250a Educational Implications
 - ED 250b History of Public Education
 - ED 250c Private and Parochial Schooling
 - ED 250d The Formal Education of Women
 - ED 250e Schooling and Social Stratification
 - ED 250f Education and Moral Development
 - ED 250g Political Issues in Contemporary Education
3. Human Behavior
 - ED 215a Learning: Theory and Process
 - ED 215b Developmental Psychology
 - ED 255a The Teacher and the Atypical Child
 - ED 255b Testing and Assessment
 - ED 420 Interaction Laboratory for Teacher Development

Childhood Curriculum Studies

The student in elementary education must complete the following courses in childhood curriculum studies:

- ED 331 and 333 Language Arts and Reading
 - MTH 312 Intuitive Euclidean Geometry
 - MTH 313 Geometry, Statistics, Probability
 - PE 163 Movement Education
 - PE 263 Teaching Physical Education and Play Activity, Pre-School to Grade 5
- or
- PE 264 Teaching Physical Education and Recreation Activity, Grades 4 through 6
 - SCS 305 Teaching Science in the Elementary School
 - SS 470 Teaching Social Studies in the Elementary School

Major/Minor Concentrations

In completing the major of 36 credits or the minors of 24, students may utilize any of the courses listed in the general education and childhood curriculum studies sections as well as the education courses under the philosophy component of the core program. For specific course requirements within the major/minor fields, consult your faculty adviser.

Major Options

Fine Arts
History/Social Science
Language Arts
Mathematics
*Mathematics/Science
Modern Languages
Natural Sciences

Minor Options

Fine Arts
Health/Physical Education
History/Social Science
Language Arts
Mathematics
*Mathematics/Science
Natural Sciences

*The combined Mathematics/Science grouping only certifies a person to teach science in the ninth grade.

Optional Professional Concentrations

Students wishing to enhance the quality and breadth of their teaching credential may choose to use their free electives in one of a number of 12-credit professional concentrations. At present these are available in the following fields:

Early Childhood Education
Foundations of Education
Guidance and Counseling
International Education/Semester Abroad
Reading
Special Education

Students interested in further information about professional concentrations should contact a member of the School of Education who specializes in the area of interest.

Advisement

It is important that students interested in this Elementary Education Program contact their faculty adviser for professional curriculum advisement. General information is also available at the Office of Teacher Education.

TEACHING CERTIFICATION FOR SECONDARY EDUCATION

The College of Arts and Sciences offers Bachelor of Arts degrees

with certification for secondary teaching credentials provided by the School of Education. Majors are available in the following subject areas:

Biology	German	Music
Chemistry	Language Arts	Physics
English	Latin	Russian
French	Mathematics	Spanish
Social Studies		

Teaching minors are available in the following subject areas:

Art	Physics
Biology	*Political Science
Chemistry	*Psychology
English	Science
Health/Physical Education	Social Studies
History	*Sociology
Mathematics	Speech
Modern Languages	

*These minors are for Social Studies majors only

SPONSORSHIP FOR MICHIGAN TEACHER CERTIFICATION

The State Department of Education certifies teachers in Michigan. It issues provisional certification to candidates deemed qualified by colleges and universities. This provisional certificate can be converted to a continuing certificate after a period of teaching and additional studies. Oakland University sponsors its graduates for the Provisional Elementary and the Provisional Secondary Certificate if the following requirements are met:

1. Completion of a university baccalaureate program with a teaching major (including the required professional sequence) and one appropriate minor.
2. An internship (ED 455) grade of 2.5 or better.
3. Demonstrated proficiency in the use of English. The criteria of acceptability may be ascertained by consulting the School of Education office. Students should satisfy this requirement before the senior year to allow time to remove deficiencies.

Students applying for state certification must be accepted to a degree program within the School of Education. Students seeking only state certification will not be accepted.

Graduate students who desire state certification must complete

all degree requirements before they can student teach. Students who can complete all degree requirements either in the spring or summer sessions may schedule student teaching in the winter term prior to completing their degree.

Students who expect to teach in a state other than Michigan should ascertain what requirements beyond those of Michigan that state demands. It is the student's responsibility to plan his/her program accordingly.

HEALTH-PHYSICAL EDUCATION

Through the Department of Physical Education and Athletics, the School of Education sponsors a variety of activity and theory courses in health-physical education, dance, recreation, and sports. A teaching minor in health-physical education is available. For other students, 8 credits of physical education courses may be applied to graduation requirements.

HUMAN RESOURCES DEVELOPMENT

The School of Education offers a Bachelor of Sciences degree with a major in Human Resources Development. This program is designed to prepare students for service-action careers related to human problems, services, and social change. It provides an opportunity to acquire knowledge and skills which are usable in a wide range of human service activities. This includes a selection from areas such as: child care and early childhood education; youth guidance and assistance; manpower counseling and related manpower development services, such as career and employability development, vocational guidance and rehabilitation, and adult education; and assistance to persons regarding life adjustment needs and community needs, such as, problems in drug abuses and alcoholism, community and cultural relations, corrections and law enforcement, family and human effectiveness, community mental health, and assistance to the aged.

A major goal is to develop potential leaders who have the analytic abilities, communication and organization skills, and the experimental know-how to respond to human needs in an era of rapid social change. The basic approach which permeates the program is the joining of understanding, skills, and service. Problem-solving and decision-making abilities are developed within a framework of practical field experiences and an on-the-job internship.

Students may select a major concentration in either Early Childhood Education or Manpower Development. Additional speciali-

zations are being planned. This program does not lead to teacher certification.

Requirements for the Bachelor of Science Degree

Candidates for the degree of Bachelor of Science with a major in Human Resources Development must meet the following requirements:

1. Complete 124 credits.
2. Complete at least 32 of these credits at Oakland University.
3. Take the last 8 credits needed to complete the baccalaureate requirements in residence at Oakland University.
4. Have a cumulative grade-point average of at least 2.00.
5. Be in substantial compliance with all legal curricular requirements.
6. Satisfy the university requirement of proficiency in English composition as described on page 38.
7. Complete a general education requirement of 25 credits.
8. Complete 32 credits of general education, covering at least five of the six designated field groups. For a description of the general education program of the university, see page 37. The general education requirement may also be completed by the New-Charter College program.
9. Complete a concentration of 60 credits in early childhood education or manpower development, which consists of:
 - a. 24-28 credits in area of specialization.
 - b. 24-28 credits in supporting cognate courses.
 - c. 8-12 credits in practicum or internship.

Concentration in Early Childhood Education

The concentration in Early Childhood Education offered through the major in Human Resources Development provides education for work in daycare centers; preparation to train parents, mothers, and para-professionals who care for children in various settings; and skills for the development, evaluation, and licensure of one's ability to deal effectively with young children and their families in settings which do not require teacher certification.

Specific requirements are:

1. Area of Specialization
ED 222 or ED 322, ED 223, ED 244, ED 225, ED 324, ED 325, and ED 326
2. Cognate Courses
AN 102 or SOC 100

PSY 271

AN 231, PSY 471, or SOC 335

One course of this group: AN 102, SOC 100, AN 231, AN/ALS 276, HRD 301, HRD 302, HRD 401, HRD 402, SOC 335, PSY/ALS 335, AN/SOC 336, or PSY 471

Additional courses related to development of children, selected with the assistance of an adviser

3. Internship in Early Childhood Education
ED 456 or equivalent

Concentration in Manpower Development

The concentration in Manpower Development was developed cooperatively with employers from community agencies and is designed to prepare personnel to function in a variety of human service and related professional roles. The applied course content in Human Interaction and in Human Resources Development is based upon performance objectives which require the application of theory and knowledge and the use of human development skills and techniques.

Students have an opportunity to develop competencies for effective work with youth and adults through practical field experiences, special problems, and internship courses. Students may choose preparation in areas such as: manpower specialist and counseling work, drug abuse and alcoholism, youth assistance, social justice and corrections, vocational guidance and rehabilitation, community mental health, family and human effectiveness, human interaction, and assistance to the aged.

Opportunities for employment will continue to depend largely upon the willingness and capability of government to provide positions. Many who are currently employed in manpower development and related human services take course work in this program for the purpose of job upgrading. Some occupations in social service fields require graduate work; however, many persons are employed who have a Bachelor's degree or less. Field experience courses, community service work, and internships usually provide contacts which may lead to employment.

Specific requirements are:

1. Area of Specialization
 - a. A minimum of 8 credits in Human Interaction (HI) courses
 - b. A minimum of 8 credits in Human Resources Development (HRD) courses
 - c. Other HI or HRD courses

2. Cognate Courses

- a. One course in psychology, not including PSY 130 or PSY 146
- b. One course in sociology or anthropology, not including SOC 100 or AN 102
- c. HRD 401
SOC 341 or other related course, such as ECN 368, ECN 309, PS 205, SOC 205, SOC 336, or SOC 370
HRD 301, HRD 302, HRD 402, or other courses in the social sciences

3. Research or statistics

One of the courses in number 1 or 2 above must include a research or statistical component, such as HRD 369, HRD 390, PSY 252, SOC 203, or SOC 307

4. Internship

HRD 490 or equivalent

COURSE OFFERINGS**ED 100 Tutoring Experience in Social Studies (2)**

Students will be placed in schools to work with teachers and secondary students. Experiences may range from observation of teachers in classroom settings and work with classroom management procedures to tutoring and work as teacher aides. Transportation is to be arranged by the student. To be taken in freshman year, if at all possible, as an entry into the secondary social studies program.

ED 110 Public Education for the Future (4)

The purpose of the course is to familiarize students with teaching as a profession in its multi-faceted aspects. Students will be oriented to Oakland's competency-based program. Field exposure to educational and social programs in the deprived areas will be an integral part of the experience.

ED 200 Micro-Teaching in Social Studies (2)

Students will be placed in schools to work with teachers and secondary students. It is expected that 40 to 50 hours will be committed to a cooperating teacher to work as tutors, teacher aides, leaders of small and large group discussions and some regular classroom instruction. Transportation is to be arranged by students. This class should be taken in the sophomore year.

Prerequisite: ED 100. Transfer students and others wishing to carry ED 100 and ED 200 together must obtain permission of instructor.

ED 210a Philosophical Analysis of Educational Problems (2)

The purpose of this course is to prepare a teacher-in-training to be competent in elementary skills of philosophical analysis and their application to resolving education problems. To be taken concurrently with ED 210b. This course replaces ED 244 for elementary education students.

Prerequisite: ED 110.

ED 210b The School and Society (2)

The purpose of this course is to acquaint the teacher-in-training with the basic skills of social science research and their application to the study of schooling, especially in relation to social policy and to other social institutions. To be taken concurrently with ED 210a. This course replaces ED 244 for elementary education students.

Prerequisite: ED 110.

**ED 215a Learning: Theory and Practice
for Teachers (2)**

This course will incorporate and place into perspective learning, behavior modification, and acquisition from the naive psychologies and biological theories; as well as holistic, social learning, associationistic, and empiricistic models. This course is to be taken concurrently with ED 215b. This course replaces ED 245 for elementary education students.

Prerequisite: ED 110.

**ED 224 Early Childhood Programing Activities for
the Young Child (4)**

Demonstration, planning, and participation in activities for physical, social, and intellectual development. Uses of various media and materials, supportive play activities, and specific art, music, science, language, and other educational activities for young children. Provides a basic repertoire of skills for the early childhood staff member.

ED 225 Health and Nutrition—Childhood (4)

Includes knowledge of basic health and safety requirements and of basic nutritional and dietary needs for optimum development, with special emphasis on these as they relate to early childhood. Practical questions of menu planning will be stressed as well as methods for creating a healthful and safe environment.

ED 244 Social and Philosophical Issues in Education (4)

Education is viewed in broad perspective, as both an interpersonal activity and a social institution. An attempt is made to deal with the often implicit assumptions that underlie policy and action decisions. Among questions pursued are those about the social meaning of the schooling process, and the ultimate and immediate aims of education.

**ED 245 Psychological and Field Studies
in Education (4)**

Psychological factors involved in learning and development are examined in lectures, class discussions, and observations of teaching. These observations may be of actual teaching in the schools, or they may be observations of video tapes of teaching. Identical with PSY 215.

**ED 250a Educational Implications of Family Roles and
Child Rearing Practices (2)**

This course will acquaint the student with the educational implications of anthropological, sociological and psychological analyses of child-rearing practices in different cultures.

Prerequisite: ED 210 and ED 215.

ED 250b History of Public Education in the U.S. (2)

This course will acquaint the student with the social, philosophical and historical ideas and events which led to the origin and development of the public school in the U.S.

Prerequisite: ED 210 and ED 215.

ED 250c Private and Parochial Schooling in the U.S. (2)

This course will acquaint the student with the social, historical, and philosophical origins, trends, effectiveness, and future possibilities of private and parochial schools in the U.S.

Prerequisite: ED 210 and ED 215.

ED 250d The Formal Education of Women (2)

This course will acquaint the student with the effects of the formal and informal structure of the school on the development of women in contemporary society.
Prerequisite: ED 210 and ED 215.

ED 250e Schooling and Social Stratification (2)

This course will acquaint the student with the role of public schooling in theory and in practice as it relates to patterns of social stratification in the U.S. and other nations.
Prerequisite: ED 210 and ED 215.

ED 250f Education and Moral Development (2)

This course will prepare a teacher-in-training to be competent in understanding and guiding the moral development of the child.
Prerequisite: ED 210 and ED 215.

ED 250g Political Issues in Contemporary Education (2)

This will be a forum on politically current and controversial educational issues of the day, using film, outside speakers, field trips, and symposia.
Prerequisite: ED 210 and ED 215.

ED 250h Independent Study (2)

The purpose of this course is to give students the opportunity to pursue a problem of particular interest to themselves, using the skills of philosophical and sociological analysis. Students will work in groups or individually under the guidance of a teacher or teachers.
Prerequisite: ED 210 and ED 215.

ED 255a Identifying and Diagnosing Learning and Behavior Problems in Children (2)

Students will demonstrate knowledge of individual differences among normal school population; develop competency in the delivery of educational services to handicapped persons; demonstrate understanding of various theoretical models of behavior and demonstrate knowledge of the various statutes that govern special education in the State of Michigan.
Prerequisite: ED 210 and ED 215.

ED 255b Testing and Assessment for Teachers (2)

The purpose of this course is to prepare a teacher-in-training to make effective use of formal, informal and teacher-created assessment techniques in the process of planning, implementing and evaluating instruction.
Prerequisite: ED 210 and ED 215.

ED 321 The Teacher and the Atypical Child (4)

The identification and management of atypical children in a regular elementary classroom setting. The course will deal particularly with those children requiring special management techniques and some modification of curriculum. These children may be hyperactive or withdrawn.
Prerequisite: ED 244 and ED 245 or ED 210 and 215

ED 322 Introduction to Early Childhood: Theory and Practice (4)

Provides a basic introduction to the field of early childhood, including the period from birth to age eight. Three major areas will be emphasized: growth and development of infants and young children, analysis of optimal learning environments for the young child, and methods and materials which facilitate learning

in early childhood. Probably 2 hours per class, 2 hours lab per week.
Prerequisite: ED 245 or PSY 271.

ED 323 Education of the Spanish-Speaking in the U.S. (4)

This course is intended to provide an opportunity for teachers and other educators to become familiar with the negative and positive aspects of Latino Education. Lectures, readings, and discussions will deal with background information about the Spanish-speaking in the U.S.

Prerequisite: ED 244 and ED 245.

ED 324 Parent and Community Involvement in Early Childhood Programs (4)

In-depth study of home/school coordination and education. Development of skills and sensitivities in the areas of parent education, parent-teacher conferences, utilization of parents in the classroom, and working with parents in the home. Includes an introduction to training parents for family day-care roles and exploration of family-based child care models.

ED 325 Learning Environment in Early Childhood (4)

In-depth study of the learning environment and curriculum in early childhood education, including theoretical and practical aspects. Analysis of curriculum areas as they relate to individual children's needs and to the total learning environment. Child assessment and diagnostic techniques and development of programs which are appropriate for individual needs.

ED 326 Introduction to Early Childhood Program Operation (4)

Provides an overview of types of program operation in early childhood, including private, industrial, cooperative, governmentally funded programs, such as Head-start, Follow Through, and the current legislation pertinent to early childhood. The course is designed to give teacher and child care development majors the skills necessary to direct programs which are in operation.

ED 331 Teaching and Reading (4)

Intensive preparation for the teaching of reading skills in the elementary grades. Identification of reading readiness, problems of program construction, and a variety of teaching methods are among the topics of the course. Must be taken with ED 333.

Prerequisite: ED 210 and ED 215 or ED 244 and ED 245.

ED 332 Literature for Children (4)

The ability to evaluate children's literature critically, to understand its history, to assess children's needs and developmental levels, and to be able to select and effectively use quality literature with children are major objectives of the course.

ED 333 Teaching the Language Arts (4)

Preparation for the teaching of language arts in the elementary, middle, and early secondary schools. Teaching of composition, creative writing, oral language development, listening, spelling, reading, and the application of linguistic principles to reading and writing are among the topics covered in this course. Must be taken with ED 331.

ED 338 Teaching Reading in the Content Areas (4)

A basic course in reading for students planning to teach in secondary schools. Course content will deal with the nature of the reading process and methods and materials for teaching the reading of English, social studies, and other subjects to junior and senior school students. Not open to elementary education majors.

ED 369 Field Experiences in Guidance (2, 4, 6, or 8)

Identical with HRD 369

ED 370 Field Problems in Social Science (4)

This course is designed to assist prospective social studies teachers in the identification and solution of instructional problems. Major emphasis is placed on use of student background to solve problems peculiar to students and teachers of social studies. Students in the course operate through a written contract agreed upon by themselves, an appropriate secondary school official, and the appropriate representative of the social studies program.

Prerequisite: ED 200.

ED 420 Interaction Laboratory for Teacher Development (4)

This course is designed to acquaint students with the importance of human relations skills in teaching and to help students acquire a clearer understanding of the flexible line separating personal and professional behavior. The activities of the laboratory involve the student in role-playing and action-oriented problem solving.

Prerequisite: ED 210, ED 215, ED 250, and ED 255.

ED 428 Teaching of the Major Field (4)

Content and methodology appropriate to the student's major field. Organization of programs and courses, bibliography of the field, and techniques of instruction receive special emphasis. Must be taken concurrently with ED 455, except when other provisions have been made by the major department.

Prerequisite: ED 244 and ED 245.

ED 430 The Public School in Urban America (4)

The course deals with the role of schools in contemporary urban America, with special emphasis on the relationship between the school and the urban ethos, social stratification, racial identities, and the functioning of the school in the urban ecology.

Prerequisite: ED 244 and ED 245 or ED 210 and ED 215.

ED 433 Teaching In the Elementary School (4)

Content and methodology of instruction in the elementary school. Includes extensive field observation in schools. This course is designed to supplement specialized courses in the teaching fields. Must be taken concurrently with ED 455.

Prerequisite: ED 244, ED 245, SCS 305, ED 331, and MTH 314.

ED 454 Skill Development Laboratories for Teaching Social Studies (4)

This course is required of all social studies interns. Throughout the course, interns will be exposed to innovative teaching strategies and materials developed by local and national social studies teachers-consultants, and provided with background for handling special problems with which they are confronted once in the classroom on a regular basis, i.e. discipline, human interaction, sexism, racism, student use of drugs, etc. Interns will attend a minimum number of sessions depending upon interest, need and/or referral by an instructional consultant of the Social Studies Program. Must be taken concurrently with ED 455.

ED 455 Internship (12)

For elementary education students, the internship during the fifteen week semester may be divided into two segments facilitating a dual assignment for those students demonstrating the need and readiness. Throughout the semester, seminars will be held which will focus on the general concerns of the student

interns regarding their student teaching experience. For secondary education students, the students will spend approximately 50 days in public school classrooms and participate in such further activities as a supervising teaching may direct. The course includes a seminar dealing with problems of instruction.

Prerequisite: For elementary education majors, completion of core program, ED 331 and 333, SCS 305, and ED 470; for secondary education majors, ED 244, ED 245, concurrent registration in ED 428, and permission of both the student's major department and the School of Education. A student must perform his/her internship in his/her last or next to last semester (a last semester is one in which a student needs to complete no more than 16 credits to satisfy all graduation requirements). A student must sign up for his/her internship one semester in advance. Except for ED 428, a student may not take any other course work concurrently with ED 455.

ED 456 Internship in Early Childhood Education (8-12)

Culmination of the early childhood education program in which the student works in practicum settings, such as the day-care center or other early childhood programs. The experience will be designed so that the students gradually assume total responsibility for an intensive field experience. At least one of the settings will be a team situation.

Prerequisite: 20 credits in early childhood education courses and permission of instructor.

ED 460 Special Project in Guidance (2, 4, 6, or 8)

Deals with specialized interests in various phases of guidance and personnel work. The specific topic of study will be determined by the student's particular interests. The course may be taken more than once, but for no more than a total of 8 credits. May be elected for independent study.

Prerequisite: Permission of instructor.

ED 463 Group Procedures in Helping Relationships (2, 4, 6, or 8)

Includes a study of procedures used in small groups where individuals are helped to better understand themselves and others in interpersonal relationships. Experience in such a group setting is provided as a major requirement of the course. Identical with HI 463.

Prerequisite: ED 420.

ED 464 Teaching in Manpower Education Programs (2, 4, 6, or 8)

Emphasizes the principles and basic teaching skills required in manpower education programs. The student will develop skills in stating instructional objectives, planning activities appropriate for the attainment of the objectives, and techniques of evaluating instructional outcomes. Experiences in the teaching process will be provided through simulation and internships in programs.

Prerequisite: Permission of instructor.

ED 490 Independent Study and Research (2 or 4)

A program of directed individual reading and research.

Prerequisite: Permission of the Department of Teacher Education. Such permission will be granted only if a student presents written evidence that a faculty member has consented to supervise his/her study.

ED 497 Apprentice College Teaching (2 or 4)

An elective course open to any well-qualified upperclassperson who has the consent of a faculty member to assist in presenting a regular college course to underclasspersons. The apprentice should be capable of assuming limited class-

room teaching duties.

Prerequisite: Permission of the Department of Teacher Education. Such permission will be granted only if a student presents written evidence that a faculty member has accepted him/her as an apprentice.

HUMAN INTERACTION COURSES

HI 261 Fundamentals of Human Interaction (2 or 4)

Provides an introduction to individual and small group interaction. Consideration is given to interpersonal communication, group leadership, decision-making, and self-awareness. The course assists students to operate more effectively in community service activities. Role-playing, demonstrations, video recordings, simulations, and other experimental activities constitute a major portion of the instructional program.

HI 361 Techniques of the Helping Interview (2 or 4)

Emphasizes listening and observation skills, establishing mutual trust and acceptance, and providing support in a one-to-one relationship to help persons in decision-making. Includes an introduction to the philosophy, theory, and research of the helping relationship. Techniques of instruction include role-playing, simulation interaction analysis, and experience with actual clients.

Prerequisite: HI 261 or HI 363.

HI 363 Dynamics of Human Relationships in Education and Work Settings (2 or 4)

Deals with interpersonal relationships among students and teachers, employees and supervisors, and peers in various settings such as: schools, industry, adult training classes, and in groups of teams of co-workers. Introduces sociological and psychological theories of dynamics of human group behavior.

HI 461 Introduction to Counseling (4)

Covers theories and practices in the field of guidance and counseling. An emphasis can be elected in preparation for work with certain groups such as: youth, adults, disadvantaged persons, offenders, persons from a certain culture or ethnic groups, etc. Includes opportunity for simulated and authentic experiences. Requirements include the development of basic competencies.

Prerequisite: HI 361 and HI 363.

HI 463 Group Procedures in Helping Relationships (2, 4, 6 or 8)

Identical with ED 463.

HI 464 Techniques of Consultation (4)

Deals with techniques of consultation designed to help teachers, parents, families, employers, peers, pre-professionals, volunteers, and other significant persons in the lives of human resources development clients to support and facilitate client growth. Includes preparation for those who are engaged in the process of helping children, youth, adults, or the aged to become more self-sufficient.

Prerequisite: Two courses in Human Interaction or equivalent.

HUMAN RESOURCES DEVELOPMENT COURSES

HRD 301 The Nature of Man (4)

A study of the variety of ways in which human nature has been understood, with special attention given to the Behavioral, Humanistic, Marxist, and Christian beliefs about man and their implications for policies and practices in the teaching and helping professions. The aim of this course is to develop tolerance for

alternative views of man, rather than propagate one view.

HRD 302 Ethical Studies of Personal Crises (4)

A study of the personal crises often encountered in our lives, viewed from the perspective of the ethical and religious questions which often arise for those in education and the helping professions. Such issues as sexual morality, birth control, and civil disobedience will be studied. Alternative ethical and religious viewpoints will be offered so that students may increase their understanding and tolerance of viewpoints they do not personally hold.

HRD 331 Introduction to Community Mental Health (4)

Includes a critical examination of current mental health treatment programs in local institutions, community mental health centers, and family-care programs. Covers the role of social and cultural factors in the cause of mental illness. Introduces roles in the helping process as a member of a treatment team and provides experience in carrying out some facet of a treatment plan under supervision.

HRD 335 Problems of Drug Abuse and Alcoholism (4)

A comprehensive study of the modes of prevention and treatment programs for substance abuse. Readings and reports include basic information about various drugs and alcohol, including history, categories and definitions, misuse, abuse, legitimate use, laws, attitudes, and reasons people abuse drugs. Provides a study of Methadone maintenance programs, support programs such as Synanon, and volunteer paraprofessional services. Reviews legal and ethical practices, confidentiality, etc.

HRD 362 Assessment of Youth and Adults (4)

Concerns an overview of techniques used in the assessment of youth and adults for purposes of deciding upon and implementing educational, occupational, and personal-social goals. Students will be introduced to measurement terminology as well as techniques of test administration and interpretation. Emphasis will be placed upon the synthesis of data in case studies and in case conferences.

HRD 364 Career Development and Community Resources (2 or 4)

Covers sources of occupational, educational and personal-social information, and techniques for using guidance information in the helping process. Establishes a repertoire of knowledge about community agencies and resources. Students gather firsthand information from site visitations as well as through audio visual and printed media.

HRD 365 Student Resources Development (2 or 4)

Provides a general overview of the process, philosophy, practice, organization, and evaluation of adult student resource development work in colleges and universities, as well as practical supervised experience in typical higher education settings, such as: career advising, residential living, financial aid, and orientation programs.

Prerequisite: Permission of instructor.

HRD 366 Techniques of Human Resources Development (2 or 4)

An introductory course intended to provide basic preparation to individuals for work in public service in the emerging field of human resources development. Emphasis is placed upon cooperation among pre-professional and professional workers such as: interviewers, teachers, and community agency personnel, including employability developmental work to assist disadvantaged youth and

adults from various cultural backgrounds to discover and develop their fullest potential.

**HRD 367 Employability Development
 Procedures (2 or 4)**

Covers procedures to assist persons to make a transition from education or unemployment to work and development of skills to seek, obtain, and hold a job. Includes guidance practices to provide support and serve as an advocate for unemployed, underemployed, and disadvantaged persons.

Prerequisite: 8 credits in HI or HRD courses or permission of instructor.

HRD 368 Work and Training Development (2 or 4)

Concerns contact work with employers and educators to develop jobs and training courses for persons who are enrolled in related manpower training programs and other agency applicants. Stresses appraisal of the needs of employers for persons with certain performance skills, development of on-the-job training programs and related education.

Prerequisite: 12 credits in HI or HRD courses.

**HRD 369 Field Work in Human Resources
 Development (2, 4, 6 or 8)**

Provides supervised experiences in a variety of helping relationships in work settings such as schools, employment offices, social services agencies, and in industry. It includes an orientation to various local community cultural settings and life styles. Experiences emphasize the process of helping young people and adults adjust to education or work experience.

**HRD 390 Special Project in Human Resources
 Development (2, 4, 6 or 8)**

A program of directed reading, research, and study in an aspect of human resources development work. May be elected for independent study or may be taught as a workshop based upon selected topics and issues in the field. The course may be taken more than once, but for no more than a total of 8 credits.

Prerequisite: Permission of instructor.

**HRD 401 Organizational Analysis
 and Change Process (4)**

Covers a study of the structure of organizations designed to provide human services and development and the process of affecting changes which facilitate improved individual client development. Concerns the assigned role of counselors, teachers, and other helpers within agencies and schools which often interferes with their helping functions.

Prerequisite: Junior standing and two courses in ED, HI, or HRD.

HRD 402 Human Services Delivery and Evaluation (4)

Covers systems analysis and experimental design for program development and research in human services. Emphasizes skills in developing performance objectives and in organizing and writing proposals for program development. Provides an opportunity to participate in the systems design for the delivery of a proposed human service or educational program.

Prerequisite: Junior standing and two courses in ED, HI, or HRD.

HRD 467 Workshop (2 or 4)

Provides an opportunity for community agency personnel and students engaged in preparation for applied human resources development work to develop various aspects of human services programs and practices. Sections are offered as needed for topics or areas of emphasis which meet the current objectives and/or

requests of agency or business and industry employers and directors of training programs for personnel skilled in human resources development. Course may be taken more than once for a maximum of 8 credits.

Prerequisite: Course work or experience in the workshop topic.

HRD 469 Seminar (2 or 4)

The course is conducted in traditional seminar fashion. The scope is predefined and based upon a broad topic in the human resources development field. Class members select areas for research and share in contributing their findings to the group. Visiting consultants as well as the instructor provide direction and relevant content. Course may be taken more than once for a maximum of 8 credits.

Prerequisite: Course work or experience in the seminar topic.

HRD 490 Internship in Human Resources Development (8 or 12)

Provides an opportunity for a culminating learning experience where a student may apply what he/she has learned in a supervised experience in some phase of human resources development work with youth and adults as an intern in a community agency program.

Prerequisite: 24 credits in HI and/or HRD courses and permission of instructor.

HEALTH-PHYSICAL EDUCATION COURSES

PE 101 Physical Conditioning and Special Activity (2)

The principles and the participation in warmup exercises, circuit-interval-weight conditioning with opportunity for participation in individual-dual-team sports activities.

PE 111 Swimming and Diving (2)

The principles, safety precautions, and procedures and the participation in the basic, intermediate, and advanced swimming and diving skills.

PE 113 Skin and Scuba Diving (2)

The principles, safety precautions, and procedures and the participation in basic and advanced skills in skin and scuba diving.

PE 121 Tennis and Volleyball (2)

To develop awareness of the facilities, equipment, supplies, courtesy, rules, and strategy. Includes participation in the basic and advanced skills of tennis and volleyball.

PE 151 Golf and Badminton (2)

To develop awareness of the facilities, equipment, supplies, courtesy, rules, and strategy. Includes participation in the basic and advanced skills of golf and badminton.

PE 152 Handball, Paddleball, and Squash (2)

To develop awareness of the facilities, equipment, supplies, courtesy, rules, and strategy. Includes participation in the basic and advanced skills of handball, paddleball, and squash.

PE 161 Beginning Gymnastics (2)

To develop awareness of the facilities, supplies, equipment, and safety rules. Includes participation in the basic fundamentals in conditioning, tumbling, stunts, and apparatus.

PE 162 Advanced Gymnastics (2)

To develop awareness of the facilities, equipment, supplies, and safety rules.

Includes participation in advanced gymnastics skills and routines on the various items of apparatus.

**PE 163 Movement Education, Low Organized Games,
and Leadup Activities to Movement Skills (2)**

Perceptual-motor development and sensory-motor development activities and their relevancy to movement in low organized games, leadup activities, and games for basic sports skills.

PE 171 Elementary Dance and Movement (2)

Introduction to elementary forms of dance and movement, space, time, and energy through movement exploration and improvisation. Student gains awareness of his/her own body and its relationship to the environment through movement.

PE 172 Advanced Dance and Movement (2)

Advanced course in dance movement covering various dance forms such as primitive ballet, modern dance, and period styles. Movement improvisation and exploration leading to compositional styles of dance. Student learns to choreograph movement into an artistically valid form.

Prerequisite: PE 171.

PE 180 Judo (2)

To develop awareness of the facilities, equipment, supplies, safety rules, and procedures. Includes participation in basic and advanced judo skills.

PE 182 Karate (2)

To develop awareness of the facilities, equipment, supplies, safety rules, and procedures. Includes participation in basic and advanced Karate skills.

**PE 202 Introduction, History, and Orientation to
Health-Physical Education and Allied Fields (2)**

To provide knowledge, interpretation, and understanding of health education, physical education, dance, intramural sports, extramural sports, sports clubs, school and community recreation, and interscholastic competitive athletics for boys and girls.

**PE 207 American Red Cross Advanced First Aid and
Prevention and Care of Activity-Oriented
Injuries (4)**

To provide knowledge, interpretation, understanding, and practice in the immediate and temporary care given to victims of accident or sudden illness until the services of a physician can be obtained. To aid in approaches and procedures of "safety proofing" facilities, equipment, supplies, and participants in athletic activities.

**PE 211 American Red Cross Senior Lifesaving and
Water Safety Instructor Course. (4)**

Principles and procedures for swimming, lifesaving, and water safety with successful participation, including physical skills examination and written examination. ARC Certification upon successful completion of course.

**PE 212 Teaching and Coaching Competitive Aquatic
Activities-Water Safety Instructors and/or
Lifesaving (4)**

Philosophy, theory, and instruction in basic and advanced skills of swimming and diving, synchronized swimming, and water games, with emphasis on condi-

tioning, training, scheduling, and pertinent necessities.

PE 221 Teaching and Coaching Baseball (2)

Philosophy, theory, and practice in the fundamental skills of the game, conditioning, training, offensive and defensive strategy, and setting up practice schedules and drills.

PE 223 Teaching and Coaching Basketball (2)

Philosophy, theory, and practice in the fundamental skills of the game, mental and physical conditioning, training, offensive and defensive systems, strategy, and setting up practice schedules and drills.

PE 231 Teaching and Coaching Football (2)

Philosophy, theory, and practice in the fundamental skills of the game; mental and physical conditioning, training, offensive and defensive systems; and strategy and setting up practice schedules and drills.

PE 223 Teaching and Coaching Soccer (2)

Philosophy, theory, and practice in the fundamental skills of the game; conditioning, training, offensive and defensive systems; strategy and, setting up practice schedules and skill drills.

PE 243 Teaching and Coaching Golf, Bowling, and Archery (2)

Philosophy, theory, and practice in basic and advanced skills with strategy of play, including setting up practice schedules and drills.

PE 251 Teaching and Coaching Cross Country, Track, and Field (2)

Philosophy, theory, and practice in basic and advanced skills of the various events, with emphasis on conditioning, training, form, and technique.

PE 261 Teaching and Coaching Gymnastics (2)

Philosophy, theory, and practice in basic and advanced skills of the various apparatus and tumbling events with emphasis on conditioning, training form, and technique.

PE 263 Teaching Physical Education and Play Activities for Children Preschool through Grade 3 (2)

Philosophy, theory, and practice in activities compatible with the felt needs, growth, and development patterns; possible interests at various levels for classroom, multi-purpose room, gymnasium, and playground.

PE 264 Teaching Physical Education and Recreation Activities for Children Grades 4, 5 and 6 (2)

Philosophy, theory, and practice in activities, compatible with the felt needs, growth, and development patterns; possible interests with emphasis on low organized games and leadup activities for team games.

PE 265 Teaching Physical Education, Recreation, and Play Activities for the Atypical Individual (2)

Philosophy and theory of various approaches and techniques. Planning, organizing, and implementing activities compatible with the varying abilities and interests of atypical children.

PE 271 Teaching Dance and Movement (4)

Theory, approaches, techniques of creative dance and movement for children and teenagers with emphasis on creativity in presenting movement studies and an opportunity for teaching children.

PE 272 Teaching Dance Composition and Production (4)

Theory and study of choreography through exploration, improvisation, and use of compositional forms to include an actual production.

PE 281 Sports Officiating for Men and Women (4)

Philosophy and theory of sports officiating with study of rules, officiating procedures, and actual participation in officiating situations in baseball, basketball, football, swimming, track, tennis, and volleyball.

PE 291 Recreation Programing and Leadership for All Ages (2)

Philosophy and theory of recreation and play; including facilities, equipment, and supplies; with emphasis on quiet and active events and games with an opportunity to give leadership in same.

PE 293 The Psychology and Sociology of Sports and Coaching of Sports (2)

History and theory of the value of sports and the potential value of sports as related by philosophers, psychologists, psychiatrists, medical doctors, educators, coaches, and others to our personal, community, state, national, and international participation.

PE 301 The Physical Education, Play, Dance, and Recreation Program for the Elementary School (4)

Philosophy and theory of the title items in the total educational program of the elementary school through reading, discussion, and evaluation of curriculum and course of study materials of state school districts, plus interaction in lecture and discussion with area of study materials of state school districts, plus interaction in lecture and discussion with area administrative, supervising, and teaching personnel.

PE 304 Exercise Physiology (4)

Examines the effects of exercise and physical training on the physiological systems of the body. Particular emphasis is placed on cardio-respiratory systems. Course content includes muscle contraction mechanisms, circulatory and respiratory adjustment during exercise, and nutrition for athletes. Laboratory experiences are provided for the purpose of developing insight into the dynamics of human performance.

PE 312 The Organization, Promotion, and Administration of Aquatic Programs and the Operation and Management of Aquatic Facilities (4)

Philosophy and theory of the title items through reading and discussion of articles, promotional pamphlets, State Department of Health Rules and Regulations, and textbooks; guest operators' lectures and discussion; observation trips;

and actual participation in management and operation approaches and procedures.

PE 321 The Organization, Promotion, and Administration of Physical Education and Athletic Programs and Allied Areas in the Secondary Schools (4)

Philosophy and theory of the title items in the total education program of the secondary schools through reading, discussion, and evaluation of curriculum and course of study materials of many state high school athletic and activity associations, plus interaction in lecture and discussion with area coaches and directors.

PE 491 Problem Solving in Physical Education, Recreation, and Competitive Athletics (4)

Survey of area of concern with opportunity to seek solutions through group observation, visitation, and interaction with area professionals, and interaction with visiting professionals.

PE 493 Cooperative-Independent Study in Physical Education, Dance, Recreation, or Competitive Athletics (4)

Cooperative-independent study with student recognizing a concern, outlining same and possible steps to a solution, building a bibliography and reading, building an observation schedule and observing, building an interview schedule and interviewing, consulting with instructor on regular basis, and completing written summation.

PE 495 Practicum-Seminar in Physical Education and Allied Areas (4)

Opportunity for individual students to delve into philosophy, theory, and practice in areas of concern with observation and possible participation in the area of concern and the sharing of the experience with the group on a regular basis.

SCIENCE STUDIES COURSES

SCS 105 Science Skills for an Ever-changing World (4)

A course designed to allow students to experience science as process.
Prerequisite: Admission to Education degree program.

SCS 305 Science in the Elementary School (4)

Content and methodology appropriate to students in the elementary education program. A field experience available.
Prerequisite: SCS 105.

SCHOOL OF ENGINEERING

OFFICE OF THE DEAN

Paul R. Paslay, Dean

Keith R. Kleckner, Assistant Dean for Graduate Programs

Howard R. Witt, Assistant Dean for Undergraduate Programs

PROFESSORS: Benjamin F. Cheydleur, David H. Evans, William G. Hammerle, Richard E. Haskell, J. Carroll Hill, Joseph D. Hovanesian, Keith R. Kleckner, Paul R. Paslay, Howard R. Witt

ASSOCIATE PROFESSORS: David E. Boddy, Robert H. Edgerton, Donald R. Falkenburg, Glenn A. Jackson, Gilbert L. Wedekind, Tung H. Weng, Michael J. Wozny

ASSISTANT PROFESSORS: Yau Yan Hung, Cho Ling Liang

ADJUNCT PROFESSORS: John G. Gievers, Ralph M. Grant, Kenneth A. Meade

BOARD OF VISITORS

The Board of Visitors for the School of Engineering are leaders of industry in southeast Michigan. They assist the School of Engineering 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 and advice on such matters as curriculum, facilities, equipment requirements, special subjects, and long-range planning. Members of the Board are:

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Programs

The School of Engineering at Oakland University is an interdisciplinary academic unit without the traditional division into departments such as chemical, civil, electrical, and mechanical engineering. Two easily distinguishable activities are included in the undergraduate offerings of the school. The first activity is general engineering while the second is computer and information science. Students may earn a Bachelor of Science degree with a major in Engineering or with a major in Computer and Information Science. These are the only two baccalaureate programs offered by the School of Engineering.

In addition to their major, students may pursue concentrations in specific areas at their option. The areas of concentrations offered for engineering majors by the School of Engineering are: Electronics, Mechanical and Thermal Science, System Engineering, and Computer and Information Science. The concentrations approved for engineering majors but offered outside the School of Engineering are in Economics, Management, and Pre-professional Studies in Medicine and Dentistry.

For students who do not wish to follow the Engineering or Computer and Information Sciences programs as majors, the School of Engineering offers two concentrations for nonmajors. The first of these is in Computer and Information Science while the second is in Public and Societal Systems. Requirements for these concentrations are given on page 202 and 207 of this catalog.

The School of Engineering also offers work leading towards the degrees of Master of Science and Doctor of Philosophy. These degree programs are also interdisciplinary, and further details may be found in the *Oakland University Graduate Study Catalog, Volume I*.

Plan of Study

To assure orderly progress towards satisfying degree requirements each student in engineering and in computer and infor-

mation science who has earned more than 56 credits is encouraged to fill out a Plan of Study. The Plan of Study form is a timetable of courses to be taken for undergraduate credit. It is usually submitted during the semester in which the student completes 56 credits. Transfer students should submit a Plan of Study at the time they enter Oakland, regardless of the number of credits earned. The forms are completed by the student in consultation with his/her adviser, and they are then approved by the Dean's Office. Acceptance of the Plan of Study indicates approval by the school of the student's program.

General Education

Oakland University requires all undergraduates in degree programs to share in a series of courses distributed so as to provide a broadening intellectual experience in liberal education. To satisfy the general education requirements students with a major in Engineering or in Computer and Information Science must:

1. Complete 24 credits in general education courses. Up to 8 credits in English composition courses may be presented as part of the 24 credits in general education.
2. Complete at least 4 credits in three of the four designated field groups, and at least 8 credits in one of the field groups. The field groups are Arts, Letters, Social Science, and Area Studies. For a description of the field groups, see page 37. In addition to those courses listed, engineering and computer and information science majors are permitted to use management courses towards satisfaction of the social science requirement.

It is also possible to meet the general education requirements by enrollment in New-Charter College. Engineering students taking this option, however, may find they need more than eight semesters in which to meet the requirements for the degree of Bachelor of Science.

UNDERGRADUATE CURRICULUM IN ENGINEERING

Oakland's general engineering program is designed to prepare students for a successful career in today's industrial based society. The general approach addresses the fact that today's engineering is becoming more interdisciplinary in nature and is largely concerned with the applications of engineering principles to the solution of problems that do not fit into a single specialized category. Graduates from Oakland are prepared to enter

the traditional fields of product design, development, manufacture, sales, service, and systems analysis, the newer areas of application such as transportation and pollution control, or to continue their education through graduate study. A growing number of students also find that their undergraduate engineering education provides excellent preparation for careers such as business, law, and medicine.

Accreditation

The undergraduate engineering program of Oakland University has been fully accredited by the North Central Association of Colleges and Secondary Schools and by the Engineers' Council for Professional Development, which is the official accrediting agency for the engineering profession in the United States and Canada.

Preparation for Admission

Entering freshmen planning to major in engineering should present at least three years of high school mathematics, including one-half unit of trigonometry. Additional high school courses in mathematics, physics, chemistry, and English are most desirable. Preparation in elementary drafting and machine shop practice is useful but not necessary.

A student planning to transfer into the program should present as many as possible of the following: four courses in analytic geometry and calculus including linear algebra and differential equations; two courses in introductory college physics using calculus in their instruction; and one or two courses in college chemistry. Other credits presented in mathematics, science, or engineering will be evaluated with reference to courses required for graduation in the engineering curriculum at Oakland University. Technician course credits are not generally applicable to these requirements.

Students enrolled in a community college and planning to transfer into an engineering program are advised to take the engineering transfer program, as prescribed by the Engineering College—Community College Liaison Committee. A brochure describing this transfer program is available from any community college or from the School of Engineering. Generally, community college graduates with the associate degree have satisfied the general education requirements of Oakland's School of Engineering. See page 7 for other information regarding admission of transfer students.

Requirements for the Degree of Bachelor of Science With a Major in Engineering

A student with a major in engineering must meet the following requirements in order to graduate:

1. Have completed at least 128 credits.
2. Have completed 32 credits at Oakland University. At least 16 of these credits must be in engineering.
3. Have taken the last 8 credits needed to complete baccalaureate requirements in residence at Oakland University.
4. Have a cumulative grade point average in courses taken at Oakland University of at least 2.00.
5. Have demonstrated writing proficiency by meeting the university standard in English composition.
6. Have completed 24 credits of general education as specified by the School of Engineering.
7. Have completed the engineering core program of 38 credits consisting of EGR 101, 172, 215, 216, 325, 326, 341, 344, 345, and 361.
8. Have completed the science and mathematics core program of 34 credits consisting of CHM 114 or CHM 124; CIS 180; MTH 154, 155, 254; APM 255; and PHY 151, 152, and 158.
9. Have completed the elective package which consists of:
 - a. 24 credits of directed electives distributed as follows:
 1. 12 credits in 400-level engineering courses chosen to meet career objectives.
 2. 4 credits chosen from the approved list of courses in life, environmental, and social sciences.
 3. 4 credits chosen from the approved list of courses in mathematics and physical sciences.
 4. The remaining 4 credits may be chosen from any of the above three groups.
 - b. 8 credits of free electives.
10. Have attained a cumulative grade point average of at least 2.00 in the engineering core courses and the 400 level directed elective courses.
11. Have completed an application for degree card at the Office of the Registrar.
12. Be in substantial compliance with all legal curricular requirements.

Directed Electives

The following courses are approved as directed electives for students in engineering:

Life, Environmental, and Social Sciences

Biology courses numbered 111 and higher.

Environmental courses numbered 181 and higher.

Economics courses numbered 300 and higher.
higher.

Management courses numbered 300 and higher.

Political Science courses numbered 241 and higher.

Psychology courses numbered 220 and higher.

Anthropology and Sociology courses numbered 200 and
higher.

Mathematics and Physical Sciences

All chemistry courses except: CHM 104, 114, 124, 191, and 201.

PHY 271 and physics courses numbered 317 and higher.

APM courses numbered 263 and higher.

STA courses numbered 226 and higher.

MTH courses numbered 275 and higher, except MTH 415, 497,
and special topics and independent study courses.

Standard Engineering Program

The engineering curriculum, particularly in the first two years, is a highly structured program. The standard program is not a required sequencing of courses, but a suggestion as to how to best schedule a program that is fairly prescribed. Each student, in consultation with his/her adviser, will develop a program to meet the individual needs and interests of the student.

Semester 1

English composition or
distribution requirement

EGR 101 or CIS 180*

MTH 154 or 104-105

CHM 114 or 124

Semester 3

Distribution requirement

EGR 215

MTH 254 or 155

PHY 151

Semester 5

Distribution requirement

EGR 325

EGR 341

APM 255 or free elective

Semester 7

EGR 344

EGR 361

Semester 2

English composition or
distribution requirement

EGR 172 or elective*

MTH 155 or 154

CIS 180 or EGR 101*

Semester 4

Distribution requirement

EGR 216

APM 255 or MTH 254

PHY 152

PHY 158

Semester 6

Distribution requirement

EGR 326

EGR 345

Directed elective

Semester 8

Directed elective

Directed elective

Directed elective
Directed elective

Directed elective
Free elective

*Students who are not prepared to take MTH 154 in their first semester should take the courses marked with an asterisk. These students are encouraged to take MTH 155 and EGR 172 during the spring session following their freshman year.

Career Preparation in Engineering

The elective package in the engineering program permits engineering majors to choose courses to meet their individual career objectives. The student, in consultation with his/her adviser, makes this course selection in the junior year. Courses are available to provide depth in the areas of computer and information science, electronics and electrical engineering, systems engineering, fluid and thermal sciences, mechanical engineering, and engineering management. By appropriate selection of advanced courses students may satisfy requirements for one of the engineering concentrations described in the next section.

Students interested in engineering management should consider the concentration in economics or the concentration in management which are offered by the School of Economics and Management and are described on page 223. Students planning a medical or dental career are advised to take the concentration in Pre-professional Studies in Medicine and Dentistry described on page 207.

Students with other career interests may augment their general engineering program with electives from other academic units. For example, engineering chemistry may be emphasized through a cooperative venture with the Department of Chemistry. Students with such interests should consult their adviser early in their program to ensure that the proper prerequisites are obtained for more advanced work. Prospective students should consult the Assistant Dean of Engineering for Undergraduate Programs on the availability of preparation for any particular field of interest.

CONCENTRATIONS FOR ENGINEERING MAJORS

Students who wish to add an established concentration or otherwise participate in an interdepartmental program must apply to the coordinator of the appropriate concentration committee or of the department involved.

Students may earn more than one concentration, however, engineering students interested in the concentrations in Computer and Information Science, Electronics, Mechanical and Thermal Sciences, and Systems Engineering should note that not more than one 400-level course may be counted toward more than one concentration.

Concentration In Computer and Information Science

CONCENTRATION COORDINATOR: R. E. Haskell

CONCENTRATION COMMITTEE: C. Allan, D. E. Boddy, B. F. Cheydleur, C. Chipman, R. E. Haskell, G. A. Jackson

Engineering majors desiring greater depth in computer software and technology should complete the concentration in computer and information science. The minimum requirement for the concentration for students with an engineering major is:

1. CIS 181, CIS 290, and EGR 488.
2. Two courses from the following: EGR 409*, EGR 426, EGR 480, and EGR 485.
3. An additional course from number 2 above or CIS 382 or CIS 385.

Concentration In Electronics

CONCENTRATION COORDINATOR: H. R. Witt

CONCENTRATION COMMITTEE: D. H. Evans, D. R. Falkenburg, R. E. Haskell, J. C. Hill, K. R. Kleckner, T. H. Weng, H. R. Witt, and M. J. Wozny.

The electronics concentration has been designed to permit students to acquire greater depth in the area of circuit analysis and design. Minimal requirements for the concentration are completion of:

1. EGR 425, EGR 426, and EGR 473.
2. EGR 431, or EGR 488, or EGR 409*. A student may also satisfy this requirement by selecting, in consultation with his/her adviser, any other 400-level engineering course, providing prior approval is granted by the Electronics Concentration Committee.

Concentration In Mechanical and Thermal Sciences

CONCENTRATION COORDINATOR: H. R. Witt

CONCENTRATION COMMITTEE: R. H. Edgerton, D. R. Falkenburg, J. G. Gievers, R. M. Grant, W. G. Hammerle, J. D. Hovanesian, Y. Y. Hung, C. Y. Liang, K. A. Meade, P. R. Paslay, and G. L. Wedekind.

The concentration in Mechanical and Thermal Sciences emphasizes the students' preparation for career opportunities in the areas of mechanics, materials, energy conversion and transport, fluid and thermal systems, and other aspects of mechanical engineering. Minimum requirements for the concentration are:

1. 16 credits taken from among EGR 405*, EGR 409*, EGR 448, EGR 449, EGR 453, EGR 461 and EGR 462, or
2. 12 credits taken from number one above and an additional 4 credits from EGR 431, EGR 480, or any other 400-level course selected by the student in consultation with his/her adviser and with prior approval of the Mechanical and Thermal Sciences concentration committee.

Concentration In Systems Engineering

CONCENTRATION COORDINATOR: H. R. Witt

CONCENTRATION COMMITTEE: D. H. Evans, D. R. Falkenburg, R. E. Haskell, J. C. Hill, K. R. Kleckner, T. H. Weng, H. R. Witt, and M. J. Wozny.

The concentration in Systems Engineering is directed towards students wishing further study in the analysis and control of a variety of industrial systems. Minimal requirements for the concentration are:

1. EGR 431, EGR 432, and EGR 436.
2. EGR 425, EGR 453, EGR 480, EGR 488, or EGR 409*. This requirement may also be satisfied by another 400-level course chosen by the student in consultation with his/her adviser and which has prior approval of the Systems Concentration Committee.

*Must be a 4 credit project which has been directed and approved for the concentration by a member of the appropriate concentration committee, or it must have prior approval of the committee.

CURRICULUM IN COMPUTER AND INFORMATION SCIENCE

The program in Computer and Information Science, which leads to the degree of Bachelor of Science, has as its main thrust the provision of a thorough, in-depth background in computer and information science while allowing individual students maximum opportunity to shape their program to meet individual needs and interests.

The digital computer has come to assume a central role in our society and nearly all phases of business, commerce, industry, education, and research employ the computer as an important tool. Persons interacting with computers have diversified complementary interests and thus a viable computer and information science program is one which encourages a broad outlook and multi-disciplinary viewpoint. The Oakland program has been designed to provide a broad educational experience in addition to the requisite technological training for persons working in the computer field.

Requirements for the Degree of Bachelor of Science

A student with a major in Computer and Information Science must meet the following requirements in order to graduate:

1. Have completed at least 124 credits.
2. Have completed 32 credits at Oakland University. At least 16 of these credits must be in required CIS courses.
3. Have taken the last 8 credits to complete baccalaureate requirements in residence at Oakland University.
4. Have a cumulative grade point average in courses taken at Oakland University of at least 2.00.
5. Have demonstrated writing proficiency by meeting the university standard in English composition.
6. Have completed 24 credits to satisfy the School of Engineering general education requirement as specified on page 261.
7. Have completed 36 credits with a minimum grade point average of 2.00 in computer and information science courses, including:
 - a. CIS 180, 181, 290, 382, and 385.
 - b. 8 credits of 400-level CIS electives of which a maximum of 4 credits may be from CIS 409.
 - c. 8 credits to be chosen by the student subject to the written approval of his/her CIS adviser.
8. Have completed the following mathematics sequence: MTH 154, MTH 155, APM 255, and APM 263.
9. Have completed STA 226 or STA 325 or an approved course in statistics in the student's cognate area.
10. Have completed 8 credits in either biology, physics, or chemistry such as:
CHM 114 and 115 or 124 and 125 or
PHY 101 and 102 or 151 and 152 or
BIO 104 and 105 or 111 and 113.

11. Have completed 20 credits beyond those listed above in approved course work in a cognate area such as linguistics, engineering, mathematics, economics, management, operations research, public and societal systems, and science.
12. Have completed an application for degree card at the Office of the Registrar.
13. Be in substantial compliance with all legal curricular requirements.

COURSE OFFERINGS IN ENGINEERING

EGR 005 Pre-engineering Topics (4)

Graphical data reduction, statistics, economics, energy, and thermodynamics as well as human factors and information concepts are applied to the solution of engineering design problems. Offered summer session.

EGR 101 Introduction to Engineering Design (Core) (4)

Graphical data reduction, statistics, economics, energy, and thermodynamics as well as human factors and information concepts are applied to the solution of engineering design problems. Offered fall and winter semesters.

Corequisite: MTH 154.

EGR 108 Drawing (2)

Introduction to the use of drafting instruments and drafting procedures. Geometric construction, geometric projection, dimensioning, tolerancing, and graphical symbols. Offered winter semester.

Prerequisite: Permission of instructor.

EGR 111 Shop Practice (2)

Introduction to basic machining principles and machine shop techniques, use of lathes, milling machines and other power machines. Emphasis is on practical experience. Offered fall semester.

EGR 172 Properties of Materials (Core) (4)

The atomic, molecular, and crystalline structure of solids, including a description of x-ray analysis, metallography, and other methods for determining structure; correlation of structure with the electric, magnetic, and mechanical properties of solids. Offered fall and winter semesters.

Prerequisite: EGR 101.

EGR 205 Engineering Topics (4)

Introductory and intermediate study in special areas. Offered normally on an individual basis. In this self-study format the student must obtain, prior to registration, the approval of the instructor who will supervise work. The class will be offered in a scheduled class format only as the occasion demands. May be taken more than once. Offered every semester.

EGR 209 Engineering Project (2 or 4)

Introductory work on laboratory projects; topics to be chosen by the student in consultation with an instructor prior to registration in the course. May be taken more than once. Offered every semester.

EGR 215 Statics (Core) (4)

A vector treatment of mechanics which includes particle statics, equilibrium of rigid bodies, structures, centroids, friction, virtual work and moments of inertia. Offered fall and winter semesters.

Prerequisite or corequisite: MTH 155 and PHY 151.

EGR 216 Dynamics (Core) (2)

A vector approach to the kinematics and kinetics of particles and rigid bodies. Analytical and numerical solutions of dynamical systems. Offered fall and winter semesters.

Prerequisite: EGR 215.

EGR 325 Lumped-Parameter Linear Systems (Core) (4)

A unified approach for steady-state and transient analysis of electrical, mechanical, fluid, and thermal lumped-parameter linear systems. Network elements and formulation procedures for differential equations. Analogies, phasors, impedance concept, natural and forced behavior, resonance, complex frequency plane, Laplace transforms, frequency response, and network theorems. Use of analog and digital computers to solve differential equations for these systems. Offered fall and winter semesters.

Prerequisite: EGR 216, PHY 152, and MTH 155.

EGR 326 Electronic Circuit Design (Core) (4)

Analysis and design of solid-state electronic circuits. Non-linear dissipative characteristics, large-signal analysis of amplifiers, small-signal analysis of active two ports, voltage amplification, transducers, and feedback. Offered fall and winter semesters.

Prerequisite: EGR 325 and MTH 254 (the latter may be taken concurrently).

EGR 341 Thermodynamics (Core) (4)

Introduction to fundamental concepts, thermal energy, thermodynamic properties and equilibrium, basic physical laws of thermodynamics, entropy and its consequences, reversible energy transfers in both open and closed systems, and application of thermodynamics to systems involving energy conversion and transport. Offered fall and winter semesters.

Prerequisite: CHM 114 or 124 and MTH 254 (the latter may be taken concurrently).

EGR 344 Fields and Waves (Core) (4)

Introduction to distributed parameter systems and wave phenomena strings, transmission lines, scalar and vector waves, interference and diffraction, Fourier analysis, and introduction to the electromagnetic field. Offered fall and winter semesters.

Prerequisite: EGR 325 and MTH 254.

EGR 345 Introduction to Fluid and Thermal Energy Transport (Core) (4)

Fundamentals of fluid mechanics; properties of fluids; conservation principles; viscous and inviscid flow; laminar and turbulent flow; boundary layer theory; basic concepts of heat transfer; fundamental modes; conduction, convection, and thermal radiation; and applications to problems of engineering interest. Offered fall and winter semesters.

Prerequisite: EGR 341.

EGR 361 Mechanics of Materials (Core) (4)

An introduction to the mechanics of deformable bodies; the distribution of stress and strain in beams, shafts, columns, pressure vessels, and other structural elements. Yield and fracture criteria of materials with applications to design. Experimental and computer-generated solutions to complex stress analysis problems, including laboratory use of strain gages, photo-elasticity, etc. Offered fall and winter semesters.

Prerequisite: EGR 215 and MTH 155.

EGR 363 Modern Architecture and Urban Design (4)

Identical with AH 363.

EGR 400 Engineering Seminar (1)

Lectures and discussions conducted by members of the faculty, graduate students, and invited speakers from industry and other universities. Various topics will be covered, but emphasis will be on current research interests of the school. May be taken for a maximum of 2 credits. Offered fall and winter semesters.

EGR 405 Special Topics (4)

Advanced study in special areas. Offered normally on an individual basis. In this self-study format the student must obtain, prior to registration, the approval of the instructor who will supervise the work. The class will be offered in a scheduled class format only as the occasion demands. May be taken more than once. Offered every semester.

EGR 409 Senior Engineering Project (2, 4, 6, or 8)

Independent work on advanced laboratory projects; topic to be chosen by the student in consultation with an instructor prior to registration in the course. May be taken more than once. Offered every semester.

EGR 415 Environmental Engineering (4)

A course in design directed at the inclusion of environmental factors. Consideration is given to resources and recycling in terms of available energy requirements. Economic-thermodynamic combined factors are introduced and related to environmental decisions. The course uses field trips and guest speakers to illustrate problems and solutions in environmental situations. A group or individual project is required by participating students. This project usually involves the design or modeling of a system with consideration of energy, environmental and economics; other projects include experimentation work related to environmental concerns and the development of new techniques for waste treatment. Offered winter semester.

Prerequisite: EGR 341.

EGR 425 Analog, Digital, and Optical Filtering (4)

Analog, digital, and optical filtering techniques for one and two dimensional data studied from a common theoretical viewpoint. Lowpass, highpass, and bandpass filtering in the time and spatial domains. Continuous and discrete Fourier transforms. Offered fall semester.

Prerequisite: EGR 326 and EGR 344.

EGR 426 Advanced Electronics (4)

Fundamentals of linear and diode wave-shaping networks. Design and analyses of electronic switching circuits with emphasis on the design of digital circuits. Included are multivibrators and logic circuits. Additional topics include resonant-load amplifiers, frequency response, impedance matching. Offered fall semester.

Prerequisite: EGR 326.

EGR 431 Automatic Control Systems (4)

Review of basic methods for determining the equations of motion of various types of linear components and systems. Transient response to deterministic inputs and the definition of Lagrangian stability. The root locus method. Open and closed-loop frequency response. Bode and Nyquist diagrams. Compensating networks. Use of analog computers in control system design. Offered fall semester.

Prerequisite: APM 255 and EGR 326.

EGR 432 Analysis of Nonlinear Systems (4)

Analysis of nonlinear physical systems with engineering applications. Phase-plane analysis for autonomous systems, singular points, and characterization of equilibrium points. Stability analysis via theorems of Liapunov, existence of limit cycles, harmonic analysis, and describing functions. Offered winter semester.

Prerequisite: EGR 325.

EGR 436 Production Systems (4)

This course includes quantitative methods for analyzing general types of systems. The focus is on production or manufacturing systems. Topics include basic economics, production scheduling, inventory control, resource allocation, congestive aspects of systems, quality control, and tolerancing. Offered winter semester.

Prerequisite: MTH 254.

EGR 448 Thermal Energy Transport (4)

A continued study of the basic concepts, properties, and descriptions of the three fundamental modes of heat transfer (conduction, convection, and thermal radiation), theoretical, numerical, and analogical methods of analysis of steady, transient, and single- and multi-dimensional problems. Includes laboratory. Offered winter semester.

Prerequisite: EGR 345 and APM 255.

EGR 449 Fluid Transport (4)

A continued study of the fundamentals of fluid mechanics and their applications, potential flow of inviscid fluids, laminar and turbulent boundary layer theory, compressible flow, similitude, modeling, and dimensional analysis. Offered fall semester.

Prerequisite: EGR 345 and APM 255.

EGR 453 Fluid and Thermal Systems (4)

A study of various systems involving fluid and thermal phenomena, including systems associated with conventional and unconventional energy conversion, fluid and thermal energy transport, environmental pollution and its abatement, and associated measurement and control devices. Emphasis is placed on systematically applying basic integral, differential, and lumped parameter modeling techniques as a means of formulating theoretical descriptions of such systems for the purposes of analysis, design, and optimization. The course is structured to bridge the boundaries of conventional engineering disciplines. Offered winter semester.

Prerequisite: EGR 341 and EGR 345, or equivalent introductory courses in classical thermodynamics, fluid mechanics, and heat transfer.

EGR 454 Energy Conversion (4)

A study of various processes and systems associated with conventional and unconventional energy conversion, fuel processing, chemical to thermal conversions, nuclear to thermal conversions, thermal to mechanical conversions, solar and geothermal conversion processes, thermoelectric devices, fuel cells, etc.

Prerequisite: EGR 341, EGR 345, or equivalent introductory courses in classical thermodynamics, fluid mechanics, and heat transfer.

EGR 461 Advanced Mechanics of Materials (4)

Advanced topics in mechanics, such as beams on elastic foundations, curved and composite beams, theory of plates, membrane theory of shells, torsion of non-circular cross-sections, thick-wall cylinders, contact stresses, stress concentrations, energy methods, and introduction to stability. Offered fall semester.

Prerequisite: EGR 361.

EGR 462 Mechanical Properties of Materials (4)

Mechanical behavior of materials with an emphasis on defect structures in metals. True stress-strain properties of real materials. Plastic deformation and fracture of metals and non-metals: dislocations, mechanical twinning, and slip phenomena. Theories of yield strength, fracture, and phenomenological fatigue behavior. Work-hardening theories for metals and strengthening mechanisms in solids. Offered winter semester.

Prerequisite: EGR 361.

EGR 473 Electronic Devices (4)

A study of the principles of operation of various electronic devices including passive circuit elements and vacuum, gaseous, semiconductor, and quantum electronic devices. Laboratory experiments include the measurement of the operating characteristics of such devices as vacuum tube triodes, voltage regulator tubes, semiconductor diodes, photoconductivity, junction transistors, field effect transistors, and lasers. Offered winter semester.

Prerequisite: EGR 326 and EGR 344.

EGR 480 Applied Numerical Methods (4)

The application of digital computer numerical methods to engineering problems. Classical methods for solving general algebraic equations, polynomial factoring, Runge-Kutta and predictor corrector methods for solution of ordinary differential equations and matrix computer methods. Also included are various contemporary methods such as Laplace transform inversion, Latin Squares techniques, partial differential equations, and the Fast Fourier Transform. Emphasis is placed on student development of general purpose subroutine for use in engineering applications. Identical with CIS 480. Offered winter semester.

Prerequisite: EGR 325 and CIS 180.

EGR 485 Switching Theory (4)

Boolean algebraic symbolization for nets of binary switched circuits such as counters, timers, and coders for typical computer subsystems. Constructive computation of nonredundant expansions by formal matrix methods are considered and translated into laboratory devices with building block computer elements for computation and on-line data reduction. Introduction to sequential switching decomposition for control and programming of systems. Offered fall semester.

Prerequisite: EGR 326.

EGR 488 Design of Digital Systems (4)

Development of the components and techniques at the gate and flipflop level needed to design digital systems for instrumentation, communication, control, and related fields. Topics covered include combinational logic circuits, memory devices, sequential circuits, organization of digital systems, system input-output considerations, and algorithmic processes. Offered winter semester.

Prerequisite: EGR 326.

**COURSE OFFERINGS IN COMPUTER
AND INFORMATION SCIENCE****CIS 120-121 Introduction to Computer Programing
(2 each)**

An introduction to computer programing and problem solving for nonengineering and noncomputer science majors. CIS 120 includes the programing language BASIC and is offered during the first seven weeks of fall and winter terms. CIS 121 includes the programing language FORTRAN and is offered during the last seven weeks of fall and winter terms. CIS 120-121 may be taken separately or they may be taken together in one term for 4 credits. Credit applicable to graduation but not the major.

Prerequisite: At least two years of high school mathematics are strongly recommended.

CIS 180 Introduction to Computer Science I (4)

An introduction to digital computers and digital computation, problem solving and elementary applications, and algorithmic programming languages such as BASIC and FORTRAN. This course presumes a good background in high school mathematics. Students lacking such background or interest in mathematics should enroll in CIS 120-121. Offered every semester.

CIS 181 Introduction to Computer Science II (4)

An introduction to numerical methods; data structures and non-numerical applications; another important algorithmic language such as ALGOL. Offered fall and winter semesters.

Prerequisite: CIS 180.

Corequisite: MTH 154.

CIS 205 Special Topics in Computer and Information Science (4)

Introductory and intermediate topics in special areas of Computer and Information Science. Offered normally on an individual basis. In this self-study format the student must obtain, prior to registration, the approval of the instructor who will supervise the work. The class will be offered in a scheduled class format only as the occasion demands. May be taken more than once. Offered every semester.

CIS 209 Project in Computer and Information Science (2 or 4)

Independent project work in computer and information science. Topic to be chosen in advance of registration by the student in consultation with an instructor. May be taken more than once. Offered every semester.

CIS 220 Computer-Based Information Systems (4)

Introduction to the structure, design, and use of large-scale, computer-based information systems in the business environment. Includes contemporary data base concepts utilizing mass storage devices. Emphasizes case studies involving the COBOL programming language. Offered winter semester.

Prerequisite: CIS 180 or CIS 120-121 or knowledge of FORTRAN or equivalent programming language.

CIS 290 Introduction to Computer Organization and Assembly Programming (4)

An introduction to the internal structure and operation of a digital computer. Hardware organization, machine language, instruction execution, digital arithmetic, addressing techniques, and digital representations of data. Assembly language, macro- and micro-programming, program segmentation, and linkage. Several assembly programs will be written by the student. Offered fall semester. Prerequisite: CIS 180 or CIS 120-121 or working knowledge of a general purpose programming language.

CIS 382 Introduction to Information Structures (4)

An introduction to information structures and their application in digital computer programming. Topics include: linear lists, trees, lists, and their various representations using sequential and linked allocation. Emphasis is placed on the application of these general concepts to particular programming problems in data manipulation, discrete simulation, and formal symbolic manipulation. Offered fall semester.

Prerequisite: CIS 181.

CIS 385 Programing Languages (4)

Formal definition of programing languages, including specification of syntax and semantics. Global properties of algorithmic languages including scope of definitions, storage allocation, statement grouping, internal and external program blocks, binding time of constituents, functions, subroutines, coroutines, and tasks. Comparison of general purpose languages and catagorization; comparison of the more important languages for list processing, string manipulation, and simulation. Offered winter semester.

Prerequisite: CIS 180, 181 and 290 or a working knowledge of two general purpose languages and an assembly language.

**CIS 405 Advanced Special Topics in Computer and
Information Science (4)**

Advance study in special areas of computer and information science. Offered normally on an individual basis. In this self-study format the student must obtain, prior to registration, the approval of the instructor who will supervise the work. The class will be offered in a scheduled format only as the occasion demands. May be taken more than once. Offered every semester.

**CIS 409 Directed Research in Computer and
Information Science (2, 4, 6, or 8)**

Independent work on advanced projects. Topic to be chosen in advance of registration by the student in consultation with an instructor. May be taken more than once. Offered every semester.

CIS 480 Applied Numerical Methods (4)

Identical with EGR 480.

Prerequisite: APM 255 and a good working knowledge of a general purpose language such as FORTRAN.



SCHOOL OF NURSING

OFFICE OF THE DEAN

Geraldene Felton, Dean

PROFESSOR: Geraldene Felton

ASSOCIATE PROFESSOR: Jesselyn W. Voight

INSTRUCTOR: Evelyn J. Piehl

ADJUNCT FACULTY: Dorothy E. Reilly, professor, Elizabeth A. Neumann, assistant professor

VISITING INSTRUCTORS: Mary-Alice Gower, Ellen A. Cary

Board of Visitors

Provision has been made for the School of Nursing to establish a Board of Visitors to support the school with on-going consultation, advice, and evaluation as it develops its programs. The membership of the Board of Visitors will comprise senior nursing faculty from other institutions on an adjunct basis, directors of nursing services, and other representatives of health-providing agencies.

The Nursing Program

The course of study combines special education in the theory and practice of nursing, with general education in the humanities and in the behavioral, biological, and physical sciences. Graduates will be qualified for employment as nurse practitioners in a variety of settings such as homes, community health agencies, hospitals, extended care facilities, and federal nursing services. Also, graduates will have the educational backgrounds necessary for graduate study in nursing.

The major purposes of the program are:

1. To prepare practitioners capable of functioning independently, developing nursing regimens, and entering into the health care system for the purpose of meeting the nursing needs of individuals, families, groups, and communities by providing opportunities for students to develop skills and abilities in leadership, problem solving, change, interpersonal relationships, and comprehensive nursing care.

2. To inculcate the nature and operation of identity in conduct for an image of self that is consistent, believable, and sustainable.
3. To prepare individuals capable of self-directed inquiry who view learning as a life-long process.

The Pre-Nursing Year

During the freshman year, students will be taking a concentrated program of introductory level courses in the physical and behavioral sciences and the humanities. These courses serve to introduce the student to the knowledge and principles embodied in the academic disciplines which he/she will need to incorporate into nursing practice. They also supply evidence of the ability to succeed in the nursing program.

Students wishing to enter the prenursing year should present two years of high school mathematics, including algebra, one year of biology, and one year of chemistry. A 3.00 grade point average is also required.

Admission into the School of Nursing

The School of Nursing curriculum offers the undergraduate student entry into the professional program in the fall semester of the sophomore year. Admission into the professional part of the program is restrictive and selective and may occur by either progression of freshman students currently enrolled at Oakland, or by transfer from other institutions. The enrollment quota for the professional part of the nursing program will be filled with preference given to those applicants judged by the school to be best qualified to undertake the program. The decision as to whether the School of Nursing will accept a student for entrance into the professional part of the program will be made after the student has completed the prenursing requirements at Oakland University or equivalent courses at another institution. The School of Nursing encourages and actively seeks applications from males and minority students.

Students must have a grade point average of 3.00 in courses required for admission into the professional part of the program. Students must also, at their own expense, provide the following prior to beginning class in the sophomore year:

- a. Health history and physical examination, including: chest x-ray; inoculation for smallpox, tetanus, poliomyelitis, and diphtheria; skin testing for tuberculosis, and correction of any physical defects.
- b. Malpractice insurance.

Plan of Study

After completion of the prenursing year each student will complete a Plan of Study in the Student Program Planning office in the School of Nursing. The Plan of Study assures orderly progress toward satisfying degree requirements. The Plan of Study is a timetable of courses to be taken for undergraduate credit and will be completed during the first semester of the sophomore year. The forms are completed by the student in consultation with the student adviser and are then approved by the dean's office.

National Student Nurses Association

Prenursing students enrolled in a university program for preparation for entrance into a baccalaureate program in nursing, and nursing students, are eligible and are encouraged to join the National Student Nurses Association. This is the mechanism through which students will participate in school planning and policies, and on curricular committees.

Approval and Accreditation

Approval to initiate the nursing program is pending from the Michigan State Board of Nursing. Review for accreditation of the program by the National League for Nursing will be initiated near the time of graduation of the first class.

Qualification for Licensure

Graduates of the School of Nursing are eligible for licensure in all states. Licensure is obtained through satisfactory performance in the licensing examination prescribed by the State of Michigan. Upon registration of the license, the nurse is known as a Registered Nurse (R.N.). Licensure in one state entitles a qualified holder to licensure by endorsement in other states.

Requirements for the Bachelor of Science Degree in Nursing

A student must:

1. Have completed 128 credits.
2. Have maintained a cumulative grade point average of courses taken at Oakland University of 2.00.
3. Have met the university's requirement in writing proficiency.

4. Have completed 54 credits in nursing courses, as specified by the School of Nursing.
5. Have completed a general education program and cognate course requirement as specified by the School of Nursing, including 30 credits in physical and biological sciences, 20 to 24 credits in social science and humanities, and 4 to 8 credits in math and statistics.
6. Have completed 8 credits of electives.

The Standard Nursing Program

The nursing program is highly structured. This model schedule has been tentatively adopted.

Semester 1	Semester 2	Spring Session
PHY 141	PSY 146	CHM 201
BIO 111	BIO 201	
LS 100 or 101	BIO 202	
MTH 123	LS 101 or AC 200	
	CHM 104	
Semester 3	Semester 4	Spring Session
NRS 211	NRS 212	NRS 213
BIO 203	PSY 272	
BIO 204	BIO 275	
PSY 271	Elective*	
AN 102 or SOC 100		
Semester 5	Semester 6	Spring Session
NRS 311	NRS 312	NRS 313
STA 225	PHL 217	
Semester 7	Semester 8	
NRS 411	NRS 412	
Elective*		

*It is suggested that electives be chosen from the humanities, physical, biological, social and behavioral sciences, and independent study.

COURSE OFFERINGS

Students participate in modular learning situations, discussions, services, autotutorial laboratory study, and clinical laboratory experiences in all nursing courses.

NRS 211 Introduction to Nursing (4)

Includes identification of aspects of adaptative theories as a conceptual framework for nursing practice, the health care system, beginning socialization into nursing, and the nursing process.

NRS 212 Dimensions of Human Response (4)

Description, definition, predictor, and approaches to control of the phenomena

to which nursing attends, and situational and maturational stressors and practical adaptive responses of individuals.

NRS 213 Family Health (4)

Theory and experiences focusing on health maintenance and prevention of illness. Health and developmental assessment will be emphasized. Responses of well children and families experiencing relatively normal pregnancy will be compared to responses of sick and handicapped children and families and crises in pregnancy.

NRS 311 Nursing of the Adult I (6)

Focus is the study of implications of increasingly complex variables related to health and illness in the adult and analysis of research in nursing and other disciplines that is relevant to nursing practice.

NRS 312 Nursing of the Adult II (6)

The study of interrelated maturational and situational stressors resulting in adaptive response deficits provides the base for expanding competency in nursing skills centering on the care functions and the ability to make more sophisticated assessments.

NRS 313 The Nurse and the Care of the Aged (6)

The focus is on the care of the aged as an important facet of nursing. The concept of accountability as it relates to nursing is extended through examining criteria for assessing practice, formulating goals for professional development, and exploring the prospectus of nursing's contribution to society.

NRS 411 Community Organization for Health (12)

Exploration of the functions of the community health nurse with the individual, the family, and the community involves the student in health assessment and health teaching in selected home and community situations where multiple health problems exist. Students will have several options for in-depth study of families in communities.

NRS 412 Advanced Nursing (12)

Allows student nursing in community or hospital as the area for experiential learning. Included will be opportunities for organization, implementation, and evaluation of nursing care to individuals and groups. Principles of leadership applicable to working with other members of the health team will be stressed.



OFFICE OF THE PROVOST

PROVOST: Frederick W. Obeare

VICE PROVOST: George T. Matthews

Several academic units and programs are administered by the Office of the Provost. They are: Center for Community and Human Development, Evening Program, Department of Learning Skills, New-Charter College, and University Courses. The descriptions of the programs follow.

CENTER FOR COMMUNITY AND HUMAN DEVELOPMENT

DIRECTOR: Wilma H. Bledsoe

The center is an academic agency that seeks to coordinate activities between the university's academic programs and off-campus community needs and interests. The center offers the community service course sequence described below.

CS 201-202 Community Service (8 each)

A program devoted primarily to volunteer service activity in the local community. A regular but modified schedule of class meetings and a series of academic assignments will also be required. Students will be placed in a service activity of their own interest, as approved by the instructor and the placement coordinator of the program. Admission is by application only, as submitted during the semester preceding enrollment in the course.

Prerequisite: Sophomore standing and grade point average of 2.00.

EVENING PROGRAM

OFFICE OF THE DEAN: Billie C. DeMont, Assistant Provost and Dean; Ralph Schillace, Assistant Dean for Instructional Program Development; Kevin T. Kenney, Administrative Assistant

The evening program consists of undergraduate degree courses taught after 4 p.m. on the university campus in Rochester and undergraduate courses and credit institutes taught in extension sites in Oakland, Macomb, and Wayne Counties.

On-Campus Evening Programs

Students may earn undergraduate degrees exclusively at night in nine major areas: economics, engineering, English, history, human resources development, management, political science,

psychology, and sociology. Concentrations available for students attending only in the evening are journalism, theatre arts, and social justice and corrections. In addition, general education courses are offered in most other program areas of the university.

Extension

Oakland University currently has extension centers in Pontiac and Royal Oak. The Pontiac center is located at the Whitmer Human Resources Center, 60 Parkhurst Street. The Royal Oak center is at Shrine High School, 3500 West Thirteen Mile Road.

The university extension program also works with business, government agencies, private agencies, and civic groups to provide specialized instruction to the personnel in such organizations. Most courses can be taught at the employer's facility, and the course content can be structured to address a particular need or goal identified by the organization.

Nonmatriculating Admission

Evening students should apply for admission at least four weeks before the beginning of classes. However, those students unable to secure regular admission before registration may register for courses as a nonmatriculating student.

Nonmatriculating students receive full credit for the courses in which they are enrolled. However, no student seeking a degree may remain nonmatriculating for more than one semester or session, and he/she must submit a new application for admission during the semester in which he/she is enrolled as a nonmatriculating student.

Registration

Information on registration is contained in the schedule of classes published each semester. Information on class schedules and program information may be obtained from the Evening Program office.

DEPARTMENT OF LEARNING SKILLS

CHAIRPERSON: Peter G. Evarts

PROFESSOR: Peter G. Evarts

ASSISTANT PROFESSORS: James H. Bullock, Barbara A. Gallow-Lyman, Barbara B. Hamilton, Mary Ann Vosgerchian, David R. Weinberg

ADJUNCT ASSISTANT PROFESSOR: George A. Jackson

INSTRUCTORS: N. Z. Bryant, Rose M. Cooper-Clark

SPECIAL INSTRUCTORS: Cordell W. Black, Bernadette Dickerson,
Margaret Kurzman

STAFF OF READING CENTER: Rose M. Cooper-Clark, Barbara A.
Gallow-Lyman

STAFF OF SKILL DEVELOPMENT CENTER: George A. Jackson,
Director of Special Programs; Margaret Kurzman, Coordinator of
Tutorial Services

The Department of Learning Skills helps freshmen in the university acquire basic learning skills necessary for the performance of college-level academic work. While the emphasis in departmental courses is on coherent and generally effective writing, all modes of communication, including library search skills, and, research and annotation, are included within the curricula of learning skills courses.

Students are placed in learning skills courses according to the results of preregistration diagnostic testing and, unless exempted, are encouraged to enroll in a two-course sequence in the form and content of composition. The courses are so designed that a student who completes the sequence should also be able to meet the university's certification of proficiency in writing for graduation.

Assistance is available for students who need extra help in reading and study skills. Students may use the Reading and Skill Development Centers on a voluntary basis or upon referral by their instructors for short, noncredit courses, or they may be assigned to the center for regular credit tutorial courses. Students who are enrolled in courses below the 100-level should be in close contact with their advisers to insure that they do not exceed the specific limitation of four such courses counting toward the completion of the baccalaureate.

COURSE OFFERINGS

The following courses represent the core writing, reading, and study skills courses for freshmen. Students are assigned to the courses on the basis of diagnostic tests and should enroll in the course assigned at orientation or registration.

LS 050 Basic Writing Skills I (4)

A course, limited to twelve students per section, in writing and related study skills (reading, note-taking, library, discussion) intended to prepare students to enter the regular learning skills writing program. Graded S/N. Enrollment by assignment.

LS 060 Supervised Study (1)

A seven-week course offered within the Skill Development Center. The student is assigned to a tutor for a regular and concentrated series of lessons in the study techniques associated with a variety of subjects including mathematics, biology, physics, and composition.

LS 075 Tutorial in Writing Skills (4)

A one-to-one course in writing. Instruction by the faculty of learning skills for at least six hours per week (two hours conference, four hours preparation). May be taken separately or in conjunction with LS 050, LS 100, or LS 101. Graded S/N. Open to all students by referral and permission of staff. Hours arranged.

LS 076 Tutorial in Reading Skills (4)

A course, designed for students who have problems in reading, utilizing the services of the Reading Center. It is offered on a one-to-one basis and includes initial diagnosis of reading difficulty and an individualized program of study.

LS 100 Basic Writing Skills II (4)

A course emphasizing the formal and functional elements in expository writing. Students are introduced to syntactic and rhetorical patterns of the English sentence and related patterns of paragraph development. Graded S/N. Enrollment by assignment.

LS 101 Basic Writing Skills III (4)

A course emphasizing the development of extended rhetorical structures, with focus on organizational patterns and the principles of logic, coherence, and unity. The course introduces students to techniques of persuasive argument and to fundamental methods of research and annotation. Graded S/N. Enrollment by assignment.

Prerequisite: LS 100.

LS 105 Efficient Reading (1)

This seven-week course is designed for the able reader. Any student who enrolls should comprehend basic material, have established a working vocabulary for the course, and have a primary need for more efficient study habits. Topics included in the course are: skimming/scanning techniques, adjustment of rate, spotting authors' patterns of organization, drawing inferences and conclusions before and during reading, and proper use of textbooks.

NEW-CHARTER COLLEGE

COCHAIRPERSONS: F. James Clatworthy, Robert L. Stern

PROFESSOR: Edward A. Bantel

ASSOCIATE PROFESSORS: Marc. E. Briod, Richard W. Brooks, F. James Clatworthy, William C. Fish, Leonardas V. Gerulaitis, James D. Graham, Robert L. Stern

ASSISTANT PROFESSORS: Peter J. Bertocci, Edward M. Liddle, Karen Sacks, Ronald M. Swartz

INSTRUCTORS: Carol Halsted, Peg Kurzman, Mary Ann Brownlee Vosgerchian

ADJUNCT ASSISTANT PROFESSOR: Thomas A. Aston (Speech Communication)

New-Charter College is a unique program where all Oakland University students may take one or more courses. Any 32 credits completed in New-Charter College satisfy all the general education distribution requirements. New-Charter College also provides for a flexible independent concentration that can be tailored to the student's needs or vocational aspirations.

New-Charter College provides an outstanding faculty representative of the social sciences, sciences, and humanities. In addition, it provides an environment and atmosphere that is responsive to people and dedicated to helping students discover the excitement of learning.

New-Charter College is geared to fulfilling the Chinese proverb:
I hear and I forget;
I see and I remember;
I *do* and I *understand*.

Students define themselves as New-Charter College students by taking 8 credits in the program their first semester. The student may take the 8-credit core course, the 8-credit core program, or any 8 credits offered by New-Charter College with permission of the chairperson.

COURSE OFFERINGS

CORE COURSE

NCC 100 (8)

This course is an interdisciplinary look at some problem areas of inherent interest to students and faculty. In keeping with the interest of holistic studies the college offers an 8 credit course each fall which is team taught by two or three faculty from different disciplines. A student learns how to look at a problem from different points of view and how the subject matter in a course is part of many different disciplines. Possible topics for the core course include human sexuality, environment, global futures, therapeutic methods, radical politics, women's liberation, and racism.

CORE PROGRAM

NCC 120 Creative Expression Workshop (4)

Using yourself as the artistic medium of expression you will be exploring communication with yourself and others within the structured form of dance and drama. Music and visual elements will be used to implement the expression and all other media of expression will be used where appropriate and possible. Offered fall semester.

NCC 121 Images of Man (4)

Literary sources are used to explore the similarities and differences between the lives of people in other cultures and our own lives. Novels, myths, biographies, essays, and plays are read from such diverse cultures as West Africa, American Indian, Ancient Greece, Ancient Indian, and Medieval Europe. Offered fall semester.

BASIC STUDY

For incoming freshmen who wish to opt out of either the core

course or the core program, or other students who need to complete their general education requirements or who want to put together an independent concentration.

NCC 122 Personal Worlds (4)

Literary sources are used to explore the fantastic, mythic, and dreamlike quality of personal worlds. Analogies are drawn between the bizarre lives of others and the stranger within ourselves. Sources may include Kafka, Hesse, Vonnegut, Beckett, Camus, and Ionesco. Offered winter semester.

NCC 150-159 Forum (2 or 4)

A topical course. The course number is rotated as topics change. Speakers from the greater Detroit area are invited to express their views about specific problems which they have been actively involved in trying to alleviate. Students taking the forum for credit are expected to undertake extra reading assignments and concrete forms of community involvement, in addition to participating in regular forum discussion. Offered winter semester.

NCC 200-299 Seminars (4)

Each semester the college offers three to eight small, intimate seminars centered around topics of interest to students and faculty. These classes involve extensive student participation and are geared to helping students become more self-actualized by giving them opportunities to manage their own learning environment. Offered fall and winter semesters.

NCC 211 Group Experimental Theatre (4)

A survey of major experiments in twentieth century theatre will lay the theoretical ground work for class experiences. Theatre pieces will be developed mainly through improvisation with inspiration coming from social, political, or aesthetic problems; texts, paintings, or scores; and scripts from within the group. Offered winter semester.

NCC 212 Mime (2 or 4)

Active examination of the techniques and styles of classical mime, dealing specifically with spiritual preparation for mime and practice of mask making.

NCC 240 Dance Appreciation (4)

Investigation of dance through history with emphasis on contemporary trends. Course will include study of function of dance in a culture, evolution and development of theatrical dance, and the relationship of dance to other art forms. Also included will be discussion of dance artists, criticism, literature, aesthetics, and notation. Use of films and attendance at dance concerts are vital to the total experience. Offered winter semester.

NCC 300 Science Workshop Contract (4)

This workshop will present two possible approaches for satisfying the basic requirements. One involves a scheduled series of seminars and laboratory sessions, the other features the writing of an individual contract fitting the student's own interests and perceived needs. The workshop will be of practical value for the nonscience major and will offer the science major an opportunity to pursue his/her own research interests. Offered fall and winter semesters.

ADVANCED STUDY

For those students who wish to supplement a departmental major, or for those students completing an independent concentration worked out in conjunction with an adviser.

NCC 302 Field Term (12)

New-Charter College offers students an opportunity to gain valuable academic and experiential knowledge in a learning environment chosen by, and beneficial to, the student. Field terms have been done in well-known free schools, at newspapers, in community-help programs, in theatre companies, in government, and overseas. Offered every semester.

NCC 305-306 Community Studies Contract (4 each)

An opportunity to develop and execute projects or research studies in a wide range of areas such as: public interest research, community organizations, minority and student rights, senior citizens, and consumer information studies. The student, or group of students, will be required to work out a learning contract in conjunction with a supervising faculty member and have that approved by the chairperson of New-Charter College. NCC 305 offered fall semester, 306 offered winter semester.

NCC 311-312 Creative Arts Contract (4 each)

An opportunity to develop and execute projects or research studies in a wide range of areas such as: dance, music, theatre, art, and experimental architecture. Also, synergistic programs in art, dance, music, and theatre. The student, or group of students, will be required to work out a learning contract in conjunction with a supervising faculty member and approved by the chairperson of New-Charter College. NCC 311 offered fall semester, 312 offered winter semester.

NCC 313 Experimental Theatre Laboratory (1)

Continuation of theatre experiences including ensemble improvisation constructions such as street theatre, collages, revues, and new production approaches to scripted material.

Prerequisite: Improvisational experience equivalent to extemporation, creative dramatics, mime, etc.

NCC 350-351 Workshop in Science (4 each)

This course will deal with topics in organic gardening on a contract basis.

NCC 400 Independent Study (1-16)

A student may take an independent study at any time during his/her university enrollment and may elect NCC 400 more than once. Independent study is a research or creative arts project on a topic of specific interest to the student. The student assumes the initiative for making arrangements necessary for any off-campus study and must file a learning contract approved by the director of field term or the chairperson. Approval prior to enrollment is not necessary unless the student elects to take Independent study for more than 8 credits in any one semester. Offered every semester.

NCC 402 Project (12)

An opportunity to develop and execute a project or research study that could be a follow-up to a field term or a learning contract, which would allow the student a full semester on- or off-campus to complete the work. The student will be required to work out a learning contract in conjunction with a supervising faculty and the approval of the chairperson of New-Charter College. Group projects are permissible. Offered fall and winter semesters.

NCC 403 Apprenticeship (4, 8, or 12)

An opportunity to work with someone skilled in his/her field. The student assumes the initiative in arranging for the placement and must file a learning contract approved by the director of field term or the chairperson prior to enrollment. Offered fall and winter semesters.

UNIVERSITY COURSES

The university courses are designed as an extensive experience of the principal intellectual elements of a liberal and unspecialized education in the six general education field groups. Unless otherwise specified, the courses may be counted toward meeting the general education distribution requirements of the various schools and colleges of the university.

COURSE OFFERINGS

UC 018 Western Literature (4)

Lectures on the literary traditions, forms, and conventions of the West, enabling the student to acquire a sound foundation for the understanding and judgment of literature. This course applicable to the letters requirement.

UC 036 Western Institutions (4)

Lectures on exploration of the development of characteristic political, social, and economic institutions of Western society in the context of those ideas which have been advanced to explain, understand, or justify them. Beyond providing a sense of fact, the course develops the skills of critical inquiry into complex historical situations. This course is applicable to the letters requirement.

UC 037 Western Philosophy (4)

Lectures on some of the great attempts of Western persons to give meaning and significance to their life, to justify their activities, and to discover the foundations of their beliefs. This course is applicable to the letters requirement.

UC 045 Introduction to Theatre (4)

Introduction to all aspects of the theatre, including: the place and function of the theatre in both society and world art, history of the theatre, production, dramatic literature, and criticism. This course is applicable to the arts requirement.

UC 085 Mathematics (4)

A course for nonscience majors which emphasizes the creative and deductive nature of mathematics. Material is selected from set theory, logic, number systems, algebra, geometry, topology, and axionmatics. Not open to those with previous credit in mathematics except with the permission of the Department of Mathematical Sciences. This course is applicable to the symbolic systems requirement.

UC 086 Science (4)

Selected topics in modern biology for nonscience majors. The course will involve a discussion of the nature of living things at various levels of biological organization from molecules to persons. This course is applicable to the natural science requirement.

UC 087, 088 Science (4 each)

These courses will deal with selected topics which emphasize the ramifications of the effects of science and technology of persons and their environment. This course is applicable to the natural science requirement.

UC 089 Science (4)

Selected topics in physics and/or astronomy chosen to illustrate the aims, development, and limitations of science. This course is especially designed for, and

open only to, nonscience majors. This course is applicable to the natural science requirement.

Prerequisite: High school algebra.

EXPLORATORIES

Classes are designed to permit an orderly but autonomous examination of a subject, topic, or area of intellectual concern chosen by the instructor. The classes are limited in size and may be elected by freshmen and sophomores to meet general education distribution requirements.

UC 01A Symbolic Systems (4)

Study of materials from the fields of foreign languages, linguistics, computer science, and mathematics to gain some familiarity with the structure and use of a system of symbols other than the English language.

UC 01B Letters (4)

Studies from a variety of viewpoints of the unique interpretation of human experience which literature represents, of the nature and development of significant social institutions and ideas of the ancient and modern world, and of attempts to organize knowledge and explain phenomena according to diverse philosophic or religious convictions.

UC 01C Fine Arts (4)

Studies in art, music, or theatre designed to enhance the student's disciplined understanding of, and engagement in, the experience of visual and auditory modes of art.

UC 01D Social Science (4)

An exploration of selected problems, ideas, issues, or topics under the direction of faculty drawn primarily from the social science fields of anthropology, economics, political science, psychology, and sociology.

UC 01E Area Studies (4)

An exploration of selected problems, ideas, issues, or topics in African, Chinese, Indian, Latin American, or Slavic studies under the direction of faculty drawn from the area studies program.

UC 01F Natural Science (4)

Studies in selected areas of the natural sciences. These exploratories, taught by faculty drawn primarily from the fields of biology, chemistry, engineering, and physics, are designed for students with no previous preparation in mathematics or the natural sciences.

COLLOQUIA

The colloquia are limited in enrollment and deal with significant cross-disciplinary issues of broad import. They are designed to provide an opportunity for junior and senior students to study outside their major fields in any one of the last four semesters of their residence. The colloquia may be used to meet general education distribution requirements.

UC 09A Symbolic Systems (4)

Studies of broad topics in linguistics, computer science, and mathematics and of the relations between areas and other human activities.

UC 09B Letters (4)

Studies in literature, history, philosophy, or religion as they relate to a variety of issues in human experience.

UC 09C Fine Arts (4)

Studies in the arts and their relation to broad human and social problems.

UC 09D Social Science (4)

Studies of contemporary social problems, conducted by faculty drawn primarily from the social and behavioral sciences: anthropology, economics, psychology, sociology, and political science.

UC 09E Area Studies (4)

Studies of current problems in Africa, India, China, Latin America, or the Slavic world and of the relations between these areas and North America and Europe in the present and future.

UC 09F Natural Science (4)

Studies of scientific issues of broad significance and of the role of science and technology in the modern world.

UNIVERSITY FORUM

Students may take one or two University Forum courses as elective credits. Each time the University Forum is offered it will be devoted to the study of a new subject. The course may be repeated for credit only once for a total of 4 credits.

UC 04 University Forum

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Oakland University affirms that an Assurance of Compliance with Title VI of the Civil Rights Act of 1964 has been executed and is fully applicable to the policies and practices of this university. Specifically, admission to the university or employment by the university is provided to qualified persons without discrimination on the ground of race, color, religion, sex, age, national origin, or ancestry.

**All announcements in this catalog are subject to revision at
the discretion of the university.**

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