WAYNE STATE UNIVERSITY
Undergraduate Bulletin
2003-2005
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### Academic Calendar 2003-2005

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<tr>
<th>Event</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Term begins</td>
<td>Tues., Aug. 19, 2003</td>
</tr>
<tr>
<td>Open Registration</td>
<td>Mon., Aug. 11 - Fri., Aug. 29</td>
</tr>
<tr>
<td>Labor Day recess</td>
<td>Mon., Sept. 1</td>
</tr>
<tr>
<td>Classes begin</td>
<td>Tues., Sept. 2</td>
</tr>
<tr>
<td>Last day for filing degree applications</td>
<td>Tues., Sept. 2</td>
</tr>
<tr>
<td>Late Registration</td>
<td>Tues., Sept. 2 - Mon., Sept. 15</td>
</tr>
<tr>
<td>Priority registration for Winter Term</td>
<td>Mon., Nov. 3 - Wed., Nov. 26</td>
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<tr>
<td>Day scheduled as Thursday 1</td>
<td>Tues., Nov. 25</td>
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<tr>
<td>Day scheduled as Friday 1</td>
<td>Wed., Nov. 26</td>
</tr>
<tr>
<td>Thanksgiving recess</td>
<td>Thurs., Nov. 27 - Sat., Nov. 29</td>
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<tr>
<td>Open Registration for Winter Term</td>
<td>Mon., Dec. 8 - Tues., Dec. 23</td>
</tr>
<tr>
<td>Study Day</td>
<td>Thurs., Dec. 11</td>
</tr>
<tr>
<td>Commencement</td>
<td>Thurs., Dec. 11</td>
</tr>
<tr>
<td>Final Examinations</td>
<td>Fri., Dec. 12 - Thurs., Dec. 18</td>
</tr>
<tr>
<td>Holiday recess</td>
<td>Thurs., Dec. 25 - Mon., Jan. 1</td>
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<td>Term ends</td>
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#### Fall Term, 2003*

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<tr>
<td>Term begins</td>
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<tr>
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<tr>
<td>Labor Day recess</td>
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<tr>
<td>Classes begin</td>
<td>Tues., Sept. 2</td>
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<tr>
<td>Last day for filing degree applications</td>
<td>Tues., Sept. 2</td>
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<tr>
<td>Late Registration</td>
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<td>Priority registration for Winter Term</td>
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<td>Day scheduled as Thursday 1</td>
<td>Tues., Nov. 25</td>
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<tr>
<td>Day scheduled as Friday 1</td>
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<tr>
<td>Thanksgiving recess</td>
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<tr>
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<td>Study Day</td>
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<tr>
<td>Commencement</td>
<td>Thurs., Dec. 11</td>
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<tr>
<td>Final Examinations</td>
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<tr>
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<tr>
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<tr>
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<td>Mon., Jan. 12 - Mon., Jan. 26</td>
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<tr>
<td>Late Registration</td>
<td>Mon., Jan 12 - Mon., Jan. 26</td>
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<td>Martin Luther King Holiday (no classes)</td>
<td>Mon., Jan. 19</td>
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<td>Priority registration for Spring/Summer Term</td>
<td>Mon., Feb. 9 - Fri., April 9</td>
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<td>Spring recess</td>
<td>Mon., Mar. 15 - Sat., Mar. 20</td>
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<td>Priority Registration for Fall Term</td>
<td>Mon., Mar. 15 - Fri., July 2</td>
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<tr>
<td>Open Registration for Spring/Summer Term</td>
<td>Mon., Apr. 19 - Fri., May 7</td>
</tr>
<tr>
<td>Study Day</td>
<td>Mon., Apr. 26</td>
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<tr>
<td>Final Examinations</td>
<td>Tues., Apr. 27</td>
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<tr>
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<td>Mon., May 4</td>
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<td>University year appointments end: 2</td>
<td>Fri., May 14, 2004</td>
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#### Spring/Summer Term, 2004*

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<td>Term begins</td>
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<tr>
<td>Open Registration</td>
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<tr>
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<td>Mon., May 10 - Fri., May 14</td>
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<tr>
<td>Classes begin</td>
<td>Mon., May 10 - Fri., May 14</td>
</tr>
<tr>
<td>Last day for filing degree applications</td>
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<tr>
<td>Late Registration for Spring Session</td>
<td>Mon., May 10 - Fri., May 14</td>
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<tr>
<td>Study Day for Spring Session</td>
<td>Sat., June 26</td>
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<tr>
<td>Final Examinations</td>
<td>Mon., June 28 - Tues., June 29</td>
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<tr>
<td>Summer Session begins</td>
<td>Wed., June 29</td>
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<tr>
<td>Independence Day recess</td>
<td>Fri., July 4</td>
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<tr>
<td>Classes end for Spring/Summer Session</td>
<td>Fri., July 5</td>
</tr>
<tr>
<td>Study Day for Spring/Summer Session</td>
<td>Sat., July 26</td>
</tr>
<tr>
<td>Final Examinations</td>
<td>Mon., Aug. 14 - Fri., Aug. 15</td>
</tr>
<tr>
<td>Spring/Summer Term ends</td>
<td>Sat., Aug. 23, 2004</td>
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#### Fall Term, 2004*

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<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Term begins</td>
<td>Thurs., Aug. 19, 2004</td>
</tr>
<tr>
<td>Open Registration</td>
<td>Mon., Aug. 16 - Fri., Sept. 3</td>
</tr>
<tr>
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<td>Mon., Sept. 7</td>
</tr>
<tr>
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<tr>
<td>Last day for filing degree applications</td>
<td>Tues., Sept. 7</td>
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<tr>
<td>Late Registration</td>
<td>Tues., Sept. 7 - Mon., Sept. 15</td>
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<tr>
<td>Priority registration for Winter Term</td>
<td>Mon., Nov. 8 - Fri., Dec. 3</td>
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<tr>
<td>Day scheduled as Thursday 1</td>
<td>Tues., Nov. 23</td>
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<tr>
<td>Day scheduled as Friday 1</td>
<td>Wed., Nov. 26</td>
</tr>
<tr>
<td>Thanksgiving recess</td>
<td>Thurs., Nov. 25 - Sat., Nov. 29</td>
</tr>
<tr>
<td>Open Registration for Winter Term</td>
<td>Mon., Dec. 13 - Thurs., Dec. 23</td>
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<td>Study Day</td>
<td>Thurs., Dec. 16</td>
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<tr>
<td>Commencement</td>
<td>Thurs., Dec. 16</td>
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<td>Fri., Dec. 17 - Thurs., Dec. 23</td>
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<td>Mon., Dec. 27 - Fri., Dec. 30</td>
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#### Winter Term, 2005*

<table>
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<th>Event</th>
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<tr>
<td>Term begins</td>
<td>Sat., Jan. 1, 2005</td>
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<tr>
<td>Labor Day recess</td>
<td>Mon., Jan. 10</td>
</tr>
<tr>
<td>Classes begin</td>
<td>Mon., Jan. 10</td>
</tr>
<tr>
<td>Last day for filing degree applications</td>
<td>Mon., Jan. 10</td>
</tr>
<tr>
<td>Late Registration</td>
<td>Mon., Jan. 10 - Mon., Jan. 24</td>
</tr>
<tr>
<td>Martin Luther King Holiday (no classes)</td>
<td>Mon., Jan. 17</td>
</tr>
<tr>
<td>Spring recess</td>
<td>Mon., Mar. 14 - Sat., Mar. 19</td>
</tr>
<tr>
<td>Classes end</td>
<td>Mon., April 25</td>
</tr>
<tr>
<td>Study Day</td>
<td>Tues., April 28</td>
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<tr>
<td>Final Examinations</td>
<td>Wed., April 27</td>
</tr>
<tr>
<td>Term ends</td>
<td>Tues., May 3</td>
</tr>
<tr>
<td>Commencement</td>
<td>Thurs., May 5</td>
</tr>
<tr>
<td>University year appointments end: 2</td>
<td>Mon., May 17, 2005</td>
</tr>
</tbody>
</table>

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1. An equal number of class days is needed for some laboratory courses. To make up for class days lost due to observance of holidays, substitute class days are scheduled.

2. University Year Appointments are a full nine months in length. Individual service assignments are the responsibility of the appropriate Dean, or, by delegation, the Department Chairperson.

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### General Information

- Tentative.

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1. General Information
GENERAL INFORMATION

This publication is for informational purposes and is neither a contract nor an offer to contract. The University reserves the right to change any provision or requirement at any time without notice.

Contained in the following section are the general rules and regulations for undergraduate study at Wayne State University, as well as descriptions and locations of University student services. For additions, amendments, and specific applications of the following regulations, consult the individual school and college sections of this bulletin.

For graduate regulations, degree programs and curricula, consult the Wayne State University Graduate Bulletin.

It is the responsibility of the student to meet and satisfy all University, college and program requirements.
University Administration

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PAUL HILLEGENDS
EUGENE DRIKER, Ph.D., Provost and Senior Vice President for Academic Affairs
PAUL E. MASSARON
DIANE L. DUNASKISS, Ph.D., Associate Provost of Academic Affairs
ANNETTA MILLER
ELIZABETH HARDY, M.D., Dean of the College of Medicine
JACQUELIN E. WASHINGTON, Vice Chairperson of the Board of Governors
JULIE MILLER, Secretary to the Board of Governors and Assistant to the President
JOHN L. DAVIS, Treasurer

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PAUL E. MASSARON, Chairperson of the Board of Governors
JACQUELIN E. WASHINGTON, Vice Chairperson of the Board of Governors
JULIE MILLER, Secretary to the Board of Governors and Assistant to the President
IRVIN D. REID, Ex Officio

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CHARLES L. BROWN, Ph.D., Vice President for Student Development and Campus Life
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MEREDITH E. GIBBS, J.D., Executive Vice President and Chief of Staff
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JACK KAY, Ph.D., Associate Provost for Retention and Assessment
RALPH H. KUMMLER, Ph.D., Interim Dean of the College of Engineering
LOUIS LESSEM, J.D., Vice President and General Counsel
JOAN MAHONEY, Ph.D., Dean of the Law School
JULIE MILLER, M.A., Secretary to the Board of Governors and Assistant to the President
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BEVERLY J. SCHMOLL, Ph.D., Dean of the Eugene Applebaum College of Pharmacy and Health Sciences
ROBERT L. THOMAS, Ph.D., Dean of the College of Science
PHYLLIS I. VROOM, Ph.D., Dean of the School of Social Work
MARGARET E. WINTERS, Ph.D., Associate Provost for Faculty Relations
PAULA C. WOOD, Ph.D., Dean of the College of Education
SANDRA G. YEE, Ph.D., Dean of University Libraries and Library and Information Science
ALMA H. YOUNG, Ph.D., Dean of the College of Urban, Labor and Metropolitan Affairs

University Mission
Wayne State University is a national research university with an urban teaching and service mission. It is a constitutionally autonomous public university within Michigan’s system of public colleges and universities.

As a national research university, Wayne State is committed to high standards in research and scholarship. In the arts, it fosters creativity and strives for excellence in performance and exhibition. Its first priority is to develop new knowledge and encourage its application. Because it is a national research university, Wayne State develops and maintains strong graduate and professional programs in many fields. To maintain its standards, Wayne State seeks to strengthen those programs that have achieved national recognition while, at the same time, fostering those programs which show promise for the future. Wayne State strives to measure its graduate programs as evaluated by national studies of graduate education, and the effectiveness of all academic programs as assessed by external evaluation.

As an urban teaching university, and because its graduates typically remain to live and work in the area throughout their lives, Wayne State seeks especially to serve residents of the greater Detroit metropolitan area, although it enrolls students from across the state and nation as well as foreign lands. It makes available high quality educational programs in more than six hundred fields of study or concentration leading to more than three hundred different degrees at the bachelor’s, master’s and doctoral levels. As a nationally ranked university, Wayne State holds high expectations for the educational achievements of its students and consequently maintains selective admissions standards; but as an urban university it recognizes an obligation to develop special avenues that encourage access for promising students from disadvantaged educational backgrounds.

The University aspires to implement its curricula in ways that serve the needs of a nontraditional student population that is racially and ethnically diverse, commuting, working, and raising families. Its student body is composed of students of traditional college age, together with many older students, and includes many who are from the first generation in their family or neighborhood to attend a university. In its teaching, the University strives to be sensitive to the special experiences, conditions, and opportunities presented by this diversity in its student body. To meet its obligations to its nontraditional students, the University attempts to schedule classes throughout the metropolitan area and during the evening as well as during the day.

Wayne State University recognizes its obligation to serve. Like other major universities, it strives to serve the disciplines and professions represented among its academic programs as well as public and private sector organizations and associations at local, state, and national levels. As an urban university, it makes a special commitment to the Detroit metropolitan area in three ways: first, it uses its metropolitan locale as a setting for basic and applied research and fosters the development of new knowledge of urban physical and social environments; second, it employs its locale as a teaching laboratory and incorporates metropolitan area materials into its curricula; and third, it brings knowledge to bear to assist and strengthen the metropolitan area. In particular, Wayne State University contributes to the economic revitalization of southeastern Michigan through research programs that develop new technology and teaching programs that educate the citizens who will live and work in the region in the coming years.

Wayne State University respects and protects the personal and academic freedom of its students, faculty and academic staff. The programs and activities of the University are open to all qualified persons without regard to race, religion, marital status, sex, sexual orientation, age, national or ethnic origin, political belief, or physical handicap, except as may be required by law. The University seeks to demonstrate, through all of its programs and activities, its appreciation of human diversity and to maintain an atmosphere of tolerance and
mutual respect that will nourish human liberty and democratic citizenship.

A relatively youthful state university — part of Michigan’s state supported system of higher education only since 1956 — Wayne State University has developed rapidly as a national research university with urban teaching and service missions. Nevertheless, it recognizes that much must be achieved before the goals it holds for itself are fully attained. It is pursuing those goals with pride in its progress and confidence in its future.

History of the University

Wayne State has more than 202,008 living alumni. More than 148,353 of them live in the state and more than 127,258 live in the Detroit metropolitan area. Over thirty percent of all degree holding adults in the metropolitan area are Wayne State University alumni.

The early history of the University is an account of originally unrelated colleges and schools which were united in 1933 into a single institution, Wayne University, under the control of the Detroit Board of Education. In 1956, this institution became Wayne State University by formal action of the Governor and Legislature of Michigan. The following specific events are among the most significant in the University's first century of development.

1868 — The Detroit Medical College, forerunner of the School of Medicine, was established.
1881 — The Detroit Normal Training School, forerunner of the College of Education, was established.
1917 — The Detroit Junior College, offering a two-year program in general education, was established in 'Old Main' and later developed into the College of Liberal Arts.
1923 — The Detroit Normal Training School became a four-year degree-granting institution under the name of the Detroit Teachers College. The first degrees were granted in 1924. The Detroit Junior College became the College of the City of Detroit with four-year degree programs. The first degrees were conferred in 1925.
1924 — The College of Pharmacy was organized.
1930 — The first regular graduate courses were offered in Liberal Arts and Education. The first Master's degrees were conferred in 1932.
1933 — The College of Engineering and the Graduate School were established.
1933 — The Colleges of Liberal Arts, Education, Engineering, Medicine and Pharmacy and the Graduate School were united by action of the Detroit Board of Education into a university organization, temporarily called the Colleges of the City of Detroit.
1934 — The name Wayne University was adopted, taken from Wayne County and, ultimately, from General Anthony Wayne.
1935 — The School of Public Affairs and Social Work was organized. In 1950 it became the present School of Social Work.
1937 — The Law School, established in 1927 as Detroit City Law School, came into the University.
1945 — The first doctoral programs were authorized in the fields of Chemistry, Physiological Chemistry and Education.
1945 — The College of Nursing, which began as a program in the Colleges of the City of Detroit, became a separate college.
1946 — The School of Business Administration, originating in the College of Liberal Arts, became the tenth academic unit in the University.
1959 — Monteith College was established.
1959 — Wayne State University became a constitutionally established University by popularly adopted amendment to the Michigan Constitution.
1964 — The Division of Urban Extension was established.
1973 — The College of Lifelong Learning was established as successor to the Division of Urban Extension.
1974 — The College of Pharmacy and Allied Health Professions was formed from merger of the College of Pharmacy and the Division of Allied Health Professions, School of Medicine.
1985 — The School of Fine and Performing Arts and the College of Urban, Labor and Metropolitan Affairs were established.
1989 — The name of the School of Fine and Performing Arts was changed to the College of Fine, Performing and Communication Arts.
1993 — The College of Science was established.
2002 — The College of Lifelong Learning was discontinued and its programs transferred to other units.

Location

Over 100 buildings provide housing for the service, instructional and research needs of the University and its students and staff. Most academic and service units of the University are located on the main campus in the heart of Detroit, largely bounded by York Street on the north, Woodward Avenue on the east, Forest Avenue on the south and Trumbull Avenue on the west. The major classroom, laboratory, library and other academic buildings are located east of the Lodge Freeway while the athletic and recreational facilities are mostly on the west side of the Expressway. (For maps, see the section of this bulletin beginning on page 478.)

The School of Medicine and the Eugene Applebaum College of Pharmacy and Health Sciences are located a short distance south and east of the main campus in the Detroit Medical Center. Certain smaller instructional and service units are located in other parts of the metropolitan area.

Organization

The general governance of Wayne State University is constitutionally vested in the Board of Governors, consisting of eight popularly elected members and the President of the University, who is named by the elected members. The President is the chief executive officer of the University and is charged by the Board of Governors with responsibility for its administration.

For educational and administrative purposes, the University is organized into major academic units — schools, colleges, divisions, centers and institutes. The following schools, colleges and divisions offer degree programs in their respective areas and together constitute the heart of the University.

School of Business Administration
College of Education
College of Engineering
College of Fine, Performing and Communication Arts
Graduate School
Law School
College of Liberal Arts
School of Medicine
College of Nursing
Eugene Applebaum College of Pharmacy and Health Sciences
College of Science
School of Social Work
College of Urban, Labor, and Metropolitan Affairs

The Dean of the college or school is its chief executive officer. More than half the colleges and schools are organized into departments or divisions, each administered by a chairperson (or head). Academic standards, curricular development, course revision and similar academic matters are the primary responsibility of the faculty and dean.
of the college or school, although these matters are subject to review and approval by the Provost and by the President and, whenever they involve major educational policy decisions, by the Academic Senate.

The Graduate School is the central unit for the supervision and encouragement of graduate work in the University and has basic responsibility for the improvement and review of existing programs and the approval of new graduate programs. Except for applicants and candidates for the Doctor of Philosophy degree, the detailed supervision of graduate students’ work is conducted by the college and school and, where appropriate, by the departments.

All degrees are granted by the University through the colleges and schools, except that the Dean of the Graduate School, with the approval of the Graduate Council, recommends candidates for the Doctor of Philosophy degree, selected master’s degrees and graduate certificate programs, and the graduate degrees of the Library and Information Science Program.

Extension services for the off-campus credit programs of the other colleges and schools, as well as University-wide Spring/Summer sessions are coordinated through eWayne and Lifelong Learning Programs. Since the University does not have a separate evening program, the colleges, schools and instructional divisions have comprehensive responsibility for degrees and degree programs whenever they are offered.

Non-credit courses, seminars and programs are offered primarily through eWayne and Lifelong Learning Programs, McGregor Memorial Conference Center, and the various schools, colleges, centers and institutes.

Centers and institutes are established by the Board of Governors on recommendation of the President for the purpose of conducting college- or University-wide interdisciplinary teaching, research and service activities. The principal centers and institutes are:

Addiction Research Institute
Bioengineering Center
Center for Automotive Research
Center for Chicano-Boricua Studies
Center for Health Care Effectiveness Research
Center for Health Research
Center for International Business Studies
Center for Legal Studies
Center for Molecular Medicine and Genetics
Center for Peace and Conflict Studies
Center for the Study of Arts and Public Policy
Center for Urban Studies
Cohn-Haddow Center for Judaic Studies
Detroit Neurotrauma Center
Developmental Disabilities Institute
Douglas Fraser Center for Workplace Issues
Morris J. Hood Jr. Comprehensive Diabetes Center
Humanities Center
Institute for Manufacturing Research
Institute for Scientific Computing
Institute of Environmental Health Sciences
Institute of Gerontology
Institute for Information Technology and Culture
Institute for Learning and Performance Improvement
Institute of Maternal and Child Health
Institute for Organizational and Industrial Competitiveness
Barbara Ann Karmanos Cancer Institute
Labor Studies Center
Ligon Research Center for Vision
Manufacturing Information Systems Center
Merrill-Palmer Institute for Child and Family Development
C. S. Mott Center for Human Growth and Development
Skillman Center for Children
State Policy Center

Accreditation
Wayne State University as a whole is accredited as a doctoral degree-granting institution by the regional accrediting agency, the North Central Association of Colleges and Schools, 30 N. LaSalle St., Suite 2400, Chicago, Illinois 60602-2504 ((800)-621-7440). In addition, more than forty specific programs and curricula are accredited individually by specialized or professional accrediting agencies. A report is produced annually for the Board of Governors which designates the accrediting agencies of the University’s programs; the report is available from the Board of Governors’ Office, 4231 Faculty Administration Building. The principal accreditation agencies are as follows:

**BUSINESS ADMINISTRATION**
Accreditation Council of the American Assembly of Collegiate Schools of Business

**EDUCATION**
Counseling (graduate only): Council for Accreditation of Counseling and Related Educational Programs
Rehabilitation Counseling and Community Inclusion (graduate only): Council on Rehabilitation Education, Inc.
Teacher Education Programs: National Council for the Accreditation of Teacher Education

**ENGINEERING**
Division of Engineering (undergraduate): Accreditation Board for Engineering and Technology, Inc. — Engineering Accreditation Commission
Division of Engineering Technology: Accreditation Board for Engineering and Technology, Inc. — Technology Accreditation Commission

**FINE, PERFORMING and COMMUNICATION ARTS**
Dance: National Association of Schools of Dance
Music: National Association of Schools of Music and National Association of Music Therapy
Theatre: National Association of Schools of Theatre

**LAW**
American Bar Association and American Association of Law Schools (Joint Committee)

**LIBERAL ARTS**
Political Science (Master of Public Administration): National Association of Schools of Public Affairs and Administration

**LIBRARY and INFORMATION SCIENCE**
American Library Association

**MEDICINE**
Doctor of Medicine Degree Program (M.D.): Liaison Committee on Medical Education, representing the American Medical Association and the Association of American Medical Colleges
Radiation Therapy Technology: Joint Review Committee on Education in Radiation Technology and Committee on Allied Health and Accreditation of the American Medical Association
Residency Programs: Liaison Committee on Graduate Medical Education of the American Medical Association and various Residency Review Committees

**NURSING**
National League for Nursing and Commission on Collegiate Nursing Education
Non-Discrimination for the Handicapped

In accordance with federal requirements of the Rehabilitation Act of 1973, there shall be no discrimination on the basis of handicap in Wayne State University’s programs, operations and activities, in the hiring, terms and conditions or privileges of employment or any matter directly or indirectly related to such employment, or in the admission, education and treatment of students. See page 36 for description of services available to disabled students.

Drug and Alcohol Free Workplace

Wayne State University is committed to providing a drug free environment for its faculty, staff, and students. The Board of Governors has made this commitment a formal policy of the University. All faculty, staff and students must abide by the terms of the Board policy as a condition of employment or enrollment at the University. The unlawful possession, use, distribution, sale or manufacture of drugs or alcohol is prohibited on University premises, at University activities, and at University work sites.

Pursuant to that policy, the unlawful possession, use, distribution, dispensing, sale or manufacture of any illicit drugs, and the unlawful possession, use or distribution of alcohol on University property, or at any University work site, or as part of any University activity, is prohibited.

Any employee or student employee who is convicted of a criminal drug offense occurring at the workplace is subject to appropriate employee discipline in accordance with established University policies and collective bargaining agreements, and may be required to participate satisfactorily in a drug abuse or rehabilitation program as a condition of further employment or enrollment.

Any student or employee who, while on University premises or at any University activity, engages in the unlawful possession, sale, manufacture, distribution, or use of drugs or alcohol shall be subject to appropriate sanctions, in accordance with established University policies and collective bargaining agreements, and in conformity with local, state and federal law, up to and including expulsion or termination. A student or employee who is found to have violated this policy may be required to participate in a drug or alcohol treatment program as a condition of further employment or enrollment.

The University encourages employees who may have a problem with the use of illicit drugs or with the abuse of alcohol to seek professional advice and treatment. Individuals who seek assistance with such problems may obtain additional information on a confidential basis by telephoning the Substance Abuse Hotline, at 313-577-1010. Access to this hotline is absolutely anonymous. The Substance Abuse Hotline provides information to the caller by means of recorded messages and no record is kept of the caller. Students may also seek referral assistance by contacting Counseling and Psychological Services, at 313-577-3398.

Policy on Sexual Harassment

It is the policy of Wayne State University that no member of the University community may sexually harass another. Any employee or student will be subject to disciplinary action for violation of this policy.

The law of the State of Michigan prohibits discrimination in employment and in education and provides that discrimination because of sex includes sexual harassment, which means unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communication of a sexual nature when:

(a) Submission to such conduct or communication is made a term or condition either explicitly or implicitly to obtain employment, public accommodations or public services, education, or housing.

(b) Submission to or rejection of such conduct or communication by an individual is used as a factor in decisions affecting such individual’s employment, public accommodations or public services, education, or housing.

General Information 9
(c) Such conduct or communication has the purpose or effect of substantially interfering with an individual’s employment, public accommodations or public services, educational, or housing environment. (MCLA 37.2103 (h))

In the area of speech, what the law and this policy prohibit is speech as action: that is, sexual communication which is either directly coercive as demanding favors, or indirectly coercive, as rising to that level of offensiveness which interferes substantially with the victim’s education or employment. The determination of what level of offensiveness is actually coercive, and therefore unlawful and prohibited by public policy, will in some cases be difficult. A significant element in the determination is provided by the fact that an unequal power relationship underlies sexual harassment. The more unequal the relationship, the more the risk is of substantial interference with the victim’s education or employment.

In the area of physical contact, physical contact which is unwelcome is so gravely offensive that it always has the effect of substantially interfering with the victim’s employment or educational environment. Employees and students should not take for granted that they are welcome to touch other employees or students, since if their contact is in fact unwelcome, they will be in violation of the law and of this policy. (WSUCA 2.28.06.010-2.28.06.080)

ACADEMIC PROGRAMS and DEGREES
— Symbols and Abbreviations

The table on the following pages lists the major academic programs and degrees offered by Wayne State University. Academic programs are defined as any combination of courses leading to the designation of a major, or to a separate degree designation. An asterisk (*) appended to a subject area indicates that a departmental honors major is also available in that field at the undergraduate level. Detailed descriptions of the programs may be found in the appropriate sections of the Undergraduate or Graduate Bulletin. The following index identifies standard abbreviations for University degrees and certificates, and the columns (Roman numerals) in the table indicating degree categories.

AuD ........................ Doctor of Audiology
BA ............................. Bachelor of Arts
BAS ........................ Bachelor of Applied Studies
BFA ............................. Bachelor of Fine Arts
BIS ............................. Bachelor of Interdisciplinary Studies
BM ............................. Bachelor of Music
BPA ............................. Bachelor of Public Affairs
BS ................................. Bachelor of Science
BSAHS .............................. Bachelor of Science in Allied Health Sciences
BSCI .............................. Bachelor of Science in Criminal Justice
BSCT .............................. Bachelor of Science in Computer Technology
BSET .............................. Bachelor of Science in Engineering Technology
BSMS .............................. Bachelor of Science in Mortuary Science
BSN ............................. Bachelor of Science in Nursing
BSW ............................. Bachelor of Social Work
BTIS .............................. Bachelor of Technical & Interdisciplinary Studies
EdD ............................. Doctor of Education
ESC .............................. Education Specialist Certificate
GC .............................. Graduate Certificate
JD ................................. Juris Doctor
LLM .............................. Master of Laws
MA ................................. Master of Arts
MADR .............................. Master of Arts in Dispute Resolution
MAIR .............................. Master of Arts in Industrial Relations
MAT .............................. Master of Arts in Teaching
MBA .............................. Master of Business Administration
MD ................................. Doctor of Medicine
MED .............................. Master of Education
MFA .............................. Master of Fine Arts
MIS .............................. Master of Interdisciplinary Studies
MLIS .............................. Master of Library and Information Science
MM ................................. Master of Music
MOT .............................. Master of Occupational Therapy
MPA .............................. Master of Public Administration
MPT .............................. Master of Physical Therapy
MS ................................. Master of Science
MSET .............................. Master of Science in Engineering Technology
MSN .............................. Master of Science in Nursing
MST .............................. Master of Science in Taxation
MSW .............................. Master of Social Work
MUP .............................. Master of Urban Planning
PBC .............................. Post-Baccalaureate Certificate
PharmD ......................... Doctor of Pharmacy
PhD .............................. Doctor of Philosophy
PMC .............................. Post-Master Certificate
SCP .............................. Specialist Certificate Program
SPL .............................. Specialist in Library and Information Science
TC .............................. Teaching Certificate

I ................................. Baccalaureate or First Professional Degree
II .............................. Post-Bachelor or Graduate Certificate
III .............................. Teaching Certificate
IV .............................. Master’s Degree
V .............................. Specialist Certificate
VI .............................. Doctoral Degree
## Academic Programs and Degrees

For interpretation of symbols and abbreviations used in this table, see preceding page.

<table>
<thead>
<tr>
<th>School/College and Major</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
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[continued on next page]
### College of Engineering (continued)

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<td>Electromechanical Engineering Technology</td>
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<tr>
<td>Electronics and Computer Control Systems</td>
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<td>Engineering Management</td>
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<td>Hazardous Waste Control</td>
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<td>Mechanical/Industrial Engineering Technology</td>
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<td>Computing, Scientific</td>
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<td>Developmental Disabilities</td>
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<td>Gerontology</td>
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<td>Infant Mental Health</td>
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<td>Interdisciplinary and Information Science</td>
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<td>Molecular and Cellular Toxicology</td>
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<td>Molecular Biology and Genetics</td>
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<td>Product Design</td>
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<td>Media Arts and Studies*</td>
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<td>Music</td>
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<td>Orchestral Studies</td>
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14 General Information
UNIVERSITY ADMISSIONS

Office of University Admissions
Welcome Center, 42 W. Warren Avenue, PO Box 2759,
Detroit MI 48202
Telephone: 577-3577, Fax: 313-5773376
Web: http://www.admissions.wayne.edu

The Office of University Admissions has the primary function of recruiting, admitting, and enrolling new students to the University. The Office also helps to coordinate the recruitment activities of individual departments, alumni groups, and students. The Office organizes visits and programs at local high schools and community colleges as well as the state of Michigan and selected regions outside of the state. Services offered to students include walk-in college admission advising.

Application
An official Application for Undergraduate Admission with a $30.00 non-refundable application fee for U.S. Residents must be filed in the Office of University Admissions before any consideration regarding admissibility can begin. The application fee for international students is $50.00. Application forms are available in the Office of Admissions. Applications are also available in high school and community college counseling offices in Michigan. Students may also apply on-line at: http://www.admissions.wayne.edu

The completed application, including official transcripts and any other records necessary for admission consideration, must be in the Office of University Admissions six weeks before the start of the desired semester.

Admission Application Dates
1. Students still in high school may apply after completion of their junior year.

2. Out-of-state applicants (including transfer students not currently attending another college) who do not plan to enroll in another college or university before entering Wayne State may apply up to eleven months in advance of the term desired.

3. Applicants currently registered at another college or university should apply early in the last term prior to transfer.

Admission Requirements
Admission to Wayne State is selective. In order to qualify for admission an applicant must present scholastic records indicating college preparation in accordance with the Presidents’ Council guidelines, and ability to undertake a college degree program. Graduates of accredited high schools can qualify for admission in two ways: (1) admission is assured if the cumulative high school grade point average is 2.75 (‘B-minus’) or above; and (2) admission is granted if the high school grade point average is between 2.00 and 2.74, providing the American College Test (ACT) standard composite score is at least 21 or a Scholastic Aptitude Test (SAT) aggregate score of at least 970 is achieved.

Transfer students who have completed at least twelve transferable hours of college work (twelve semester credits or eighteen quarter credits) at an accredited institution with a 2.00 (‘C’) cumulative grade point average will be considered for admission on the basis of that work. For those students who have completed less than twelve transferable academic credit hours with a ‘C’ average at another institution, the high school record will be used as an additional factor in determining admissibility.

Recommended High School Preparation

1. English (four years recommended): Students entering the University should be able to (1) comprehend the main and subordinate ideas in written works, lectures, and discussions; and (2) conceive ideas about a topic and be able to organize them for presentation in both verbal and written forms using standard English sentences. Effective use of the English language is central to one’s ability to succeed at the University and in the professions and occupations for which our students are preparing.

2. Mathematics (four years recommended): Entering students should be able to (1) add, subtract, multiply and divide using natural numbers; (2) use the mathematics of integers, fractions and decimals; (3) understand ratios, proportions, percentages, roots and powers; and (4) perform the mathematical operations of algebra and geometry.

While most careers for which University students are preparing require mathematical competency, an increasing number of careers in the science and technical curricula require advanced preparation in mathematics.

3. Biological and Physical Sciences (three years recommended): Students should be acquainted with (1) concepts of matter, energy, motion and force and the natural laws and processes of the physical sciences in general; (2) the science of living matter with special reference to growth, reproduction and structure; and (3) laboratory methods. A basic understanding of the physical and biological sciences is essential for many fields of University study and is necessary if one is to comprehend our world and the impact of science and technology on it.

4. Social Sciences/History (three years recommended): Students should study different cultures and societies — their social systems, customs, communities, values, economies, governments, and politics. A knowledge of the main events and ideas that have shaped our nation and its place in the world should also be possessed by entering students. They should understand how the past bears upon the present condition and future course of mankind. As the social sciences improve one’s appreciation of the scientific method and other approaches to critical analysis, an understanding of history is requisite to the informed exercise of citizenship in a free society.

5. Foreign Languages (two years recommended): Proficiency in a foreign language not only introduces students to non-English speaking cultures but also heightens awareness and comprehension of one’s native tongue. Language is the basic instrument of thought, and the ability to read, speak and write a foreign language permits one to understand another culture in a more fundamental way. Foreign language competency will open up career opportunities denied to those without it.

6. Fine Arts (two years recommended): Students entering the University should be acquainted with the visual and performing arts, through study and/or participation. Several academic disciplines at the University require high levels of skill in the arts. Study in this area enriches life and heightens one’s sense of beauty and aesthetic perception.

7. Computer Literacy: Some formal instruction in the logic and use of computers in problem solving and data retrieval is increasingly important in all fields of study.

General Information

Project 350: Special admissions criteria and procedures apply under this program. Contact the Project 350 counselor in the Office of University Admissions for information. See also descriptive information under Special Student Service Programs, page 56.
Transfer Admission

1. Transfer students are considered for admission if they meet the following minimum conditions:

   (a) Completion of at least one semester of college work (twelve transferable semester credits or eighteen quarter credits) at an accredited college institution with a cumulative 'C' average (2.00).
   (b) Students who have attended unaccredited institutions should consult with an admission counselor to determine admisibility.
   c) For those students who have completed less than twelve transferable academic credit hours with a 'C' average at another institution, the high school record will be used as an additional factor in determining admisibility.

2. If applicants have at least a 2.0 grade point average from both high school and college but lack the completion of twelve hours of transferable credit, they may elect to take either the Scholastic Aptitude Test (SAT) or the American College Test (ACT). A minimum aggregate score on the SAT of at least 970, or a composite score on the ACT of at least 21, is required. Examination scores are not to be construed as an adequate substitute for good achievement in coursework.

Transfer of Undergraduate Credits

Wayne State University policy accepts transfer credit from all accredited institutions of higher education, both community colleges and baccalaureate-granting colleges and universities.

Transfer Credit from Regionally Accredited Institutions: Wayne State University will accept equivalent academic credit from regionally accredited baccalaureate-granting institutions, and up to sixty-four semester credit hours from community colleges and other regionally accredited institutions which offer Associate Degrees. (All hours will be evaluated in the latter case; the most relevant sixty-four credit hours will apply to the degree.) Credits accepted for transfer must be for courses for which a course equivalence exists or which have been determined to be of a traditional academic nature. Courses for which a grade of 'D' or better will transfer.

Transfer Credit from Institutions not Regionally Accredited: Wayne State University will accept transfer credit from other accredited institutions, provided that the institution 1) grants a baccalaureate or associate degree; 2) is fully accredited by an agency recognized by the Council on Postsecondary Education (COPA); and 3) the courses presented for transfer are shown to have equivalency or are determined to be of a traditional academic nature.

Transfer Credit from Institutions in Candidacy Status: Wayne State University will accept for transfer those credits for which a grade of ‘B’ or higher was earned from institutions with candidacy status from a regional accrediting agency.

Technical, Vocational and Applied Credit: To facilitate transfer of students, Wayne State University will accept for transfer up to twelve semester hours of credit earned in technical, vocational and applied (TVA) courses at two- and four-year colleges if such courses are determined to be related to a student’s intended program. For students transferring from associate degree granting institutions, the twelve TVA credits will be included in the sixty-four credit limitation.

Transfer of Course Work Graded ‘D’: Wayne State University will accept for transfer course work carrying the grade of ‘D,’ provided the cumulative grade point average earned by the transfer student meets admission standards. (Acceptance of transfer credit carrying the grade of ‘D’ will be determined on a case-by-case basis.) No transfer grades apply in computing Wayne State grade point averages.

Transfer of Remedial or Developmental Coursework: Credit earned in courses designated remedial or developmental will not transfer.

Transfer of Redundant or Duplicative Coursework: Transfer credit will not be awarded for redundant coursework (i.e., courses with substantially duplicative content). Credit will be awarded for only one course in any set of redundant courses.

Residency and Upper Division Requirements: Transfer students will be required to meet the University and College residency requirements and to obtain the same number of upper division credits in fulfillment of the baccalaureate degree as are required of native students in specific major programs.

Junior Standing: Wayne State University will award junior standing to all transfer students for whom fifty-five or more semester hours of transferable credit have been accumulated, whether they are transferred credits or credit earned at Wayne State University. Junior standing will not guarantee automatic entry to major and professional programs in the Schools and Colleges. Transcripts will be individually evaluated to determine whether all prerequisites for major and professional standing have been met by native and transfer students.

Advanced Placement Tests

Superior performance in the College Board Advanced Placement Tests will entitle an entering freshman to consideration for advanced placement and/or advanced standing credit up to a maximum of thirty-two semester credits of work in the areas covered by the examination. These areas include American history, European history, art history, studio art, biology, chemistry, computer science, English, French, German, Latin, Spanish, mathematics, music literature, music history, and physics. Advanced placement and/or advanced standing credit will be awarded and such credit may satisfy General Education Requirements in accordance with policies adopted by the appropriate department. Interested students should contact the Office of Admissions.

College-Level Examination Program

The College Board sponsors the College-Level Examination Program (CLEP) which affords students and prospective students the opportunity to demonstrate their academic proficiency at the freshman-sophomore college level in various areas and in specific subjects whether or not they have had previous formal college instruction in materials covered by the tests. As described by the College Board, the Examinations are intended to provide a comprehensive measure of undergraduate achievement in the five basic areas of the liberal arts: English composition, humanities, mathematics, natural sciences and social sciences. They are not intended to measure advanced training in any specific discipline, but rather to assess a student’s knowledge of fundamental facts and concepts, his/her ability to perceive relationships and his/her understanding of the basic principles of the subject. The content of the Examinations is similar to the content of those subjects ordinarily included in the program of study required of most general education students in the first two years of college.

The Subject Examinations are essentially end-of-course tests developed for widely taught undergraduate courses. They measure understanding of basic facts and concepts, as well as the ability to apply such understanding to the solution of problems and the interpretation of materials. Questions that require of a student only rote recall are avoided.

Superior performance in these examinations will be considered as a basis for granting advanced placement and/or advanced standing credit as well as for waiving parts of the General Education Requirements of the University. For further information, please consult advisers, school or college offices, or University Advising Center at (313)577-8889.

For information on credit by Special Examination, see page 40.
Special Requirements and Professional Admission

For additional undergraduate admissions information relating to special requirements and professional admission in certain colleges, please refer to the following school or college sections: Business Administration — page 63; Education — page 103; Engineering — page 129; Engineering Technology — page 156; Fine, Performing and Communication Arts — page 176; Nursing — page 329; Pharmacy and Health Sciences — page 343; and page 357; Social Work — page 444.

Guest Admission

Students currently attending an accredited institution of higher education who are interested in taking undergraduate courses at Wayne State for one semester, or who wish to register for courses concurrently, are eligible to apply for guest admission. Requirements include the completion of fifteen semester credits (credit hours) at the home institution and a minimum cumulative ‘C’ grade point average (equivalent to a 2.0 grade point average at Wayne State). Please contact the Admissions Office for further details regarding this status.

Visitor Program

The Visitor Program allows any adult who is not currently enrolled for credit courses at Wayne State to attend a wide range of University courses for no credit. Provided space is available, adults may enroll as visitors in most of the courses listed in the Schedule of Classes.

It is not necessary to be formally admitted to the University to take advantage of this noncredit program. Visitor-status students do not submit written work or take examinations. Tuition for courses enrolled under Visitor status is one-half of the freshman credit rate plus one-half of the registration fee; tuition must be paid in full at the time of registration.

Registration for both on-campus and off-campus classes takes place the first week of classes. Students may register using a MasterCard or Visa credit card; for information, call the Noncredit Programs unit at 313-577-4665.

Wayne State University — University of Windsor Exchange Agreement

Wayne State University and the University of Windsor have entered into an exchange agreement whereby students from each institution may enroll in selected courses at the other institution. Courses available are limited to those not offered at the student’s home institution. Limitations also apply to the number of courses and credits a student may take under this agreement. Students who wish to participate in the program must be in good standing at their home institution and must have prior approval of the appropriate academic unit that the course(s) will be accepted as part of the student’s course of study. Participants in this program pay tuition and fees at the home institution and receive credit for course(s) only at the home institution. Interested students should consult the Office of the Vice President for Student Development and Campus Life.

International Students

This university is authorized under Federal law to enroll non-immigrant alien students. A student from another country desiring admission should file an Application for Admission to Undergraduate Studies for Applicants from Other Countries, with a $50.00 non-refundable application fee, with the Office of University Admissions. Full instructions for admission procedures, academic requirements, and language standards are included with the application forms. A student from a country in which English is not the native language must take an English Language Proficiency Examination prior to admission or have a minimum Test of English as a Foreign Language (TOEFL) score of 550 (213 on computerized version), and a Test of Written English score of 5.5. Arrangements should be made through the Office of University Admissions. Also see Office of International Students and Scholars. For information on international student admission to the Graduate School, see the Wayne State University Graduate Bulletin.

Re-Entry Following an Interruption in Attendance

Undergraduate students who were previously admitted and registered at Wayne State University and whose attendance has been interrupted need not reapply at the Office of University Admissions. It is strongly recommended that students who left in good standing report to the college of their choice for any special instructions regarding their return to classes. Students should obtain a copy of their records before meeting with advisers.

Phoenix Program (Second Start)

The Phoenix Program gives undergraduate students who left Wayne State University on Probation or Dismissal the opportunity to petition for return under a second start policy. To be eligible for such petition, the student must have not enrolled at Wayne State University for at least five consecutive years. Petitions for re-entry are decided by the Dean of the School or College in which the student is matriculated or seeks to enter. With the approval of the Dean, the student and an academic adviser develop an academic contract, and the adviser closely monitors the student through the first twelve credit hours of academic work.

To return to regular status, students must complete twelve semester credit hours with a grade of ‘C’ or better and satisfactorily complete the Mathematics Competency and English Proficiency requirements of the University General Education Requirements within two years under the Phoenix Program. Students will be expected to complete degree requirements in effect at the time of their return to the University. Should students earn any grade below ‘C’ in their first twelve credits in the Phoenix Program, they will be excluded from the University. To maintain the integrity of students’ academic records, previous work will remain on the transcripts; however, the credits and grade point average (g.p.a.) will be adjusted to reflect the grade point average earned since the start of the Phoenix Program.

For information about the Phoenix Program, students should contact the Dean’s Office of the school or college in which they have matriculated or wish to enter.
TUITION AND FEES

Listed below are the Tuition and Fees per semester in effect at the time of publication of this Bulletin. Tuition and Fees are subject to change without notice by action of the Board of Governors. In accordance with action of the Board of Governors, a portion of these fees is used for operation of the Student Center. This information is available on our website at: http://www.classschedule.wayne.edu

Undergraduate Tuition and Fees

Freshmen and Sophomores:
- Resident: Registration Fee plus $141.40 per credit.
- Non-Resident: Registration Fee plus $324.00 per credit.

Juniors, Seniors and Post-Bachelors:
- Resident: Registration Fee plus $166.80 per credit.
- Non-Resident: Registration Fee plus $383.50 per credit.

Student Fees

Omnibus Fee: Undergraduate students are assessed a $12.75 fee per credit hour to a maximum of twelve credit hours per term. Graduate and Law School students are assessed a $19.10 fee per credit hour per term. M.D. students are assessed a flat $459.50 fee per year.

Application Fees: Applications for admission to any undergraduate, graduate or professional program must be accompanied by a $30.00 non-refundable application fee. The non-refundable application fee for international students is $50.00. There is no application fee for members of the Alumni Association, their spouses and/or dependents, or for applicants sixty years of age or older, except for applicants to the Law School and School of Medicine.

Application Fee, School of Medicine: Persons who have submitted a first application to the School of Medicine through the American Medical College Application Service (AMCAS), and who are invited to submit additional material (secondary application), must pay a non-refundable fee of $30.00 for the processing of the secondary application.

Registration Fee: There is an $87.50 non-refundable registration fee, except that students enrolled in the Visitor Program shall pay half of the regular non-refundable registration fee.

Late Registration Fee: Any student registering after the prescribed registration date (as indicated in the Schedule of Classes for the applicable semester) must pay either a $35.00 or $70.00 non-refundable Late Registration Fee.

Late Payment Fees: A student who does not satisfy his/her tuition and fee assessment by the prescribed dates on the invoices (and as indicated in the Schedule of Classes for the applicable semester) shall be assessed a $25.00 Late Payment Fee if the past due balance is less than $500.00, or a $40.00 Late Payment Fee if the past due balance is $500.00 or more.

Partial Payment Fee: Students are expected to pay their full tuition and fee invoices by specified dates, depending upon when they register. Students may elect to pay only one-half of their assessments by the required dates, and these students will be assessed a $20.00 Partial Payment Fee.

Course Material Fees: Course material fees may be assessed, the latter in instances where a relatively large portion of instructional costs is due to the necessary use of consumable resources. These fees occur principally in courses with associated laboratory work or similar use of consumable resources. The imposition of such fees requires the approval of the President or his/her designee.

Examination Fee for Credit by Examination: The fee for an examination taken to establish credit by examination is $10.00 per credit hour. Such examinations are approved under provisions established by the schools and colleges. Credit allowed on the basis of transcript entries from another institution is not applicable to this provision.

Music Fees: Students registering for music courses taken as private lessons pay a fee of $79.00 for one credit hour. For three credit hours, the additional fee is $157.00. In the event of withdrawal, the student will receive a refund of the difference between the fee assessed and the cost to the University of any lessons provided, but in all cases a minimum of $5.00 will be retained by the University.

Graduation Fee: There is a $15.00 fee for students who apply for a degree.

Certificate Fee: There is a $15.00 fee for students who apply for a certificate.

Transcript Fees: Individuals may receive up to ten free transcripts each year. A fee of $5.00 is assessed for each transcript request in excess of ten per year. A fee of $20.00 is assessed for each emergency transcript.

Locker Fees: Students registering for certain activity courses in physical education who wish to use locker facilities are charged.

Bowling Fee: Students selecting a course in bowling must pay a bowling lane rental fee. This fee is paid at the first meeting of the class and is not refundable.

Payment of Tuition and Fees

Checks or money orders must be made payable to Wayne State University. MasterCard, Discover and Visa credit cards are accepted for tuition payments, by in-person payment or on the web through WSU Pipeline (http://pipeline.wayne.edu). For details, inquire at the Cashier’s Office. The following Tuition and Fee Payment Policy is in effect:

Students who do not officially drop their courses within the tuition cancellation period for the term are financially obligated to pay for the courses even if they have not attended any class sessions.

Please see the Schedule of Classes for tuition and fee deadline dates applicable to a particular term.

Registration is not permitted beyond the second week of classes unless extenuating circumstances beyond the control of the student warrant an exception to University Policy as determined by the University Registrar. In such cases, full tuition, Registration Fee and Late Registration Fee must be paid in advance of registration.

Tuition Cancellation

Tuition, not including the non-refundable Registration Fee, may be canceled in accordance with the following schedule when students officially withdraw from classes by the Web, by submitting a properly-completed Register/Drop/Add form, or by sending a certified letter to Registration and Scheduling, in the Office of the Registrar. A certified letter of withdrawal sent through the U.S. Postal Service shall be considered effective on the date of the postal cancellation, provided the date is legible. If the postal cancellation is dated Saturday or Sunday, it will be accepted as of the preceding Friday.

The tuition cancellation schedule shown below applies to courses that start in accordance with the Official University Academic Calendar. The tuition cancellation schedule for courses with specially approved starting dates is dependent upon the starting date of the course. Questions about the tuition cancellation schedule should be referred to the University Registrar.

Classes meeting twenty-eight or more weeks (not including final examination period): Students who officially withdraw from scheduled classes before the seventh week of classes are entitled to a 100% tuition cancellation and 0% thereafter.

Classes meeting sixteen to twenty-seven weeks (not including final examination period): Students who officially withdraw from scheduled classes before the fourth week of classes are entitled to a 100% tuition cancellation and 0% thereafter.
Classes meeting nine to fifteen weeks (not including final examination period): Students who officially withdraw from scheduled classes before the third week of classes are entitled to a 100% tuition cancellation and 0% thereafter. (Refer to the appropriate term Schedule of Classes for specific dates.)

Classes meeting four to eight weeks (not including final examination period): Students who officially withdraw from scheduled classes before the second week of classes are entitled to a 100% tuition cancellation and 0% thereafter.

Classes meeting fewer than four weeks (not including final examination period): Students who officially withdraw from scheduled classes on or before the first day of classes are entitled to a 100% tuition cancellation and 0% thereafter.

Special Adjustments: The Registrar is authorized to make adjustments in the application of the policies stated in this section when unusual circumstances warrant. Circumstances which may warrant special consideration include non-attendance by the student or the death or serious illness of the student or of someone closely related. Students (or an authorized representative in the case of death or serious illness) must submit their applications and supporting documentation to Registration and Scheduling.

Short-Term Courses: Payment of full tuition and the non-refundable Registration Fee are required on the date of registration or no later than the first class meeting date.

Holds on Records: Initial eligibility to register for classes each semester is based on a student’s admission status with the University. All students must be authorized by the University in order to enroll in classes. ‘Holds’ may be placed on student records, and registration denied to a student, for academic reasons (e.g., probation or dismissal), a disciplinary problem, money owed to the University, failure to return library books and/or other supplies and equipment, and/or non-compliance with program, departmental, school/college, or University regulations.

A ‘Hold’ will be placed on the records of any student who has past indebtedness to the University. While the hold is in effect, registration for a subsequent term will not be permitted, transcripts of academic work taken at the University will not be furnished, nor will a diploma be issued. Student grades may be recorded but are not considered as being earned nor is a degree earned until the student has satisfied all unpaid tuition as well as money borrowed from student loan programs.

Residency

The following regulations and review procedures are established by Wayne State University for University tuition and fee purposes. The University recognizes that a variety of definitions exist for the term ‘resident’ and applicants are encouraged to give careful attention to these regulations which define residency for University purposes.

— Regulations

1. No student is eligible for residence classification unless (s)he, or, if (s)he is a minor, the person from whom (s)he derives residence (pursuant to paragraph six below), meets the qualifications prescribed herein for residence and has lived in this state continuously for at least six months immediately prior to the first day of classes of the term for which resident classification is being sought, save for temporary absences as defined in paragraph two below.

2. For the purposes of these regulations, the terms ‘residence’ and ‘domicile’ are synonymous. In general, domicile is the place where a person actually resides with the intention of making it the person’s true, fixed, permanent home and principal establishment and to which, whenever (s)he is temporarily absent, (s)he has the intention of returning. Full-time attendance at school outside Michigan and initial enlistment in a military service are examples of temporary absences. Other absences for more than six months will be presumed to be non-temporary. The fact of physical presence at the dwelling-place and the intention to make it a home must concur and the intention must be to make a home in fact in a certain place, and not an intention to acquire a domicile in order to obtain the benefit of the legal consequences of having a domicile there. A person may have but one domicile at a time, and a domicile, once established, continues until it is superseded by a new domicile.

3. Normally, the sojourn in this state of a student from another state for the primary purpose of attending school is not residence and it is presumed that a non-resident at the time of his or her enrollment continues in that classification throughout his or her presence as a student, except where it can be established that his or her previous domicile has been abandoned and a new one established. If a student enrolls in undergraduate school for more than eight credits, or in graduate school for more than six credits, or in Law School for more than ten credits in any one full length term, within six months after arrival in Michigan, it is normally presumed that the student’s sojourn is for the purpose of attending school and not to establish domicile.

4. The following facts, although not conclusive, have probative value in support of a claim for residence classification: acceptance of an offer of permanent employment in this state; former residence in the state and the maintenance of significant connections therein while absent; economic or social compulsion causing a person to abandon a former residence and acquire residence in the state with attendance at the University only an incident to such residence.

5. The following facts, standing alone, are not accepted as sufficient evidence of domicile: employment by the University as a fellow, scholar, assistant, or in any position normally filled by students; a statement of intention to acquire a domicile in this state; voting or registration for voting; the lease of living quarters; payment of local and state taxes; automobile registration; driver’s license; or continued presence in Michigan during vacation periods.

6. For purposes of these regulations, the age of majority is 18 years. A minor does not have the capacity to establish his or her own domicile. Normally, the domicile of a minor follows:

(a) That of the parents or surviving parent;
(b) That of the parent to whom custody of the minor has been awarded by a divorce or other judicial decree; or
(c) That of the parent with whom the minor in fact makes his or her home, if there has been a separation without a judicial award of custody;
(d) That of an adoptive parent, where there has been a legal adoption, even though the natural parents or parent may be living; or
(e) That of a ‘natural’ guardian, such as grandparent with whom the minor in fact makes his or her home, where the minor has permanently left his or her parental home and reasonable expectation of substantial financial support from the parents has been dissolved.

7. If a Michigan resident parent or guardian of a minor moves his or her residence to another state, the minor shall remain eligible for resident tuition status as long as (s)he continues to attend school regularly in this state.

8. A minor who has permanently left his or her parental home, and who has no reasonable expectation of substantial financial support from his or her parents or legal guardian, etc., may qualify for residency status as if (s)he were of majority age.

9. An alien student may apply for resident status under one or more of the following regulations in the same manner as a citizen, if he/she is in the United States for other than a temporary purpose. In order to demonstrate that he/she is here for other than a temporary purpose, the alien student must be either a permanent resident alien with an I-151 or I-551 Alien Receipt Card or an applicant for adjustment to permanent resident alien status whose application has been approved.
by the Immigration and Naturalization Service; OR an alien with a G-4 visa; OR an alien with an I-94 Arrival-Departure Record Card, endorsed either ‘refugee’ or ‘applicant for adjustment;’ OR an alien with documentation from the Immigration and Naturalization Service that he/she has been granted asylum in the United States; OR an alien with other documentation from the Immigration and Naturalization Service that reflects status equivalent to one of the above denominated categories.

— Review Procedures

1. Initial Classification and Appeal: (a) Registering under proper residence and advising the Office of Admissions of changes in circumstances which might affect residence classification is the responsibility of the student. Questions concerning a student’s residency should be raised initially with the Office of Admissions.

(b) A student may challenge the initial classification by filing an Application for Residence Classification with Registration and Scheduling, where such forms are available. Except for delays caused by University personnel, Applications for Residence Classification must be filed within the term for which resident classification is claimed.

(c) A student may appeal non-resident classification rendered by Registration and Scheduling by filing a written notice of appeal with the Registrar’s Office within sixty calendar days after the student is notified of the administrative classification. The notice of appeal shall include reasons for the appeal, the period for which resident status is claimed, and a complete statement of the facts on which the appeal is based, together with supporting affidavits or other documentary evidence. Failure to file notice within sixty calendar days shall constitute a waiver of the right to appeal non-resident classification.

(d) The Office of the General Counsel shall review the appeal and render a decision. A student may appeal an adverse decision by filing a written notice of appeal with the Office of the General Counsel within fifteen calendar days from the date of the decision. Failure to file a written notice of appeal with the Office of the General Counsel shall constitute a waiver of the right to appeal to the President or his designee. While the student has the right to consult the University Ombudsperson at any time, the student may particularly want to utilize the Ombudsperson’s services at this point in the review procedure.

(e) After a student appeal, the President or his designee shall review the student’s appeal on the record and render a final decision.

(f) If an erroneous classification has occurred, a refund for the appropriate period and amount will be made.

2. Reclassification and Appeal: (a) A student, having been initially classified as a non-resident and having decided that (s)he has since become a resident may initiate action in the same manner as for challenging an initial classification pursuant to 1(b) above.

(b) If the petitioner is dissatisfied with the finding of the Registrar’s Office, (s)he may appeal to the Office of the General Counsel in the same manner as prescribed for appeals from administrative classification as in 1(c) above.

3. Erroneous Classification: If any student having been classified as a resident student shall be determined to have been erroneously so classified, (s)he shall be reclassified as a non-resident student, and if the cause of his or her incorrect classification shall be found to be due to any material concealment of facts or false statement made by him or her at or before the time of his or her original classification, (s)he shall be required to pay all tuition fees which would have been charged except for such erroneous classification and shall be subject also to appropriate discipline in accordance with University policies. If it is determined that there is no such concealment of facts by the student, fees shall be adjusted only for current and future terms.

4. Classification Date: These procedures became effective November 9, 1979.
Loans: Money that must be repaid at a future date, usually following graduation or when the student ceases to be enrolled on at least a half time basis. Loans bear a 5% to 8.25% simple interest on the unpaid balance during the repayment period.

NOTE: If you are a first-time borrower under the Federal Perkins Loan Program or Federal Direct Loan Program, you must participate in entrance loan counseling. The purpose of the counseling is to advise you of your rights and responsibilities as a borrower. Federal regulations prohibit OSFA from paying your loan proceeds to you before you participate in the required counseling. Federal Perkins Loan entrance counseling is available on-line at http://www.mapping-your-future.org/ Federal Direct Loan entrance counseling is available at: http://www.dlssonline.com/entrancecounseling/main-based.asp/

Work-Study: An employment program of on- or off-campus jobs that involves a direct exchange of money (an hourly wage) for work performed.

A work-study award offer is not an employment guarantee. If you are interested in work-study, you should carefully read the Student Guide to On-Campus Employment, which explains the hiring process and the terms and conditions of employment. The guide is available from Career Planning and Placement Services, 1001 Faculty/Administration Building, and from the Web: http://www.stuaffrs.wayne.edu

Financial Assistance Available through the Office of University Admissions

Wayne State University Presidential Scholar Program (Competitive Scholarship): The Presidential Scholar Program provides tuition scholarships for selected Michigan high school and community college students who have demonstrated scholastic ability as they graduate from their educational institutions. The award for high school graduates is tuition for eight semesters maximum (thirty-two credits per academic school year); the award for Michigan community college graduates is tuition for four semesters maximum (thirty-two credits per academic school year).

Eligibility: High school graduates’ eligibility is based on competitive grade point average and standardized test scores. Michigan community college graduates’ eligibility requires having earned an Associate Degree or fifty-one transferable community college credits with a minimum 3.50 grade point average. Offer awards may be offered, based on availability of scholarship monies. For more information call University Admissions, 313-577-3577.

Financial Aid Application Procedures

Financial aid eligibility requirements, award amounts and conditions for continuing the awards after the initial year vary. You must apply for financial aid each academic year.

To determine if you are eligible to receive financial aid, you must complete the Free Application for Federal Student Aid (FAFSA). Complete the FAFAS on the Web at http://www.fafsa.ed.gov Direct questions concerning the FAFSA to the U.S. Department of Education, (800) 433-3243, or to OSFA, 313-577-3378, during regular business hours.

Transfer Students: To have a copy of the FAFSA that was completed for financial aid consideration at another institution sent to Wayne State University, telephone the Federal Student Aid Information Center at 1-800-4-FED-AID (1-800-433-3243) and request the addition of the WSU federal code to your FAFSA. The WSU federal code is 002329.

To complete the FAFSA on the Web, you will need a federal personal identification number (PIN), which is issued by the U.S. Department of Education. You may request a PIN on-line at http://www.pin.ed.gov Allow at least two weeks to receive the PIN in the mail. You can receive the PIN via e-mail within one business day.

Fall/Winter Application Processing Priority Date: The application deadline for Wayne State financial aid consideration is March 1 for the fall and winter semesters. List the Wayne State University federal code, 002339, under Step Six on the FAFSA to have the application data sent to WSU. You may submit the FAFSA after the processing priority date, but it is likely that only loans and work-study will be available. It is unlikely that gift aid, other than the Federal Pell Grant, will be available by that time.

Spring/Summer Application Processing Priority Date: Supplemental applications (for the Federal Direct Loan and Work-Study) are required in addition to the FAFSA to apply for spring/summer semester financial aid. They will be available from OSFA and on the OSFA Web site: http://www.financialaid.wayne.edu in mid-February. The deadline for each application is March 30.

Special Note: A supplemental application is not required for you to use the remaining portion, if any, of your Federal Pell Grant in the spring/summer semester.

Expected Family Contribution (EFC): To determine the amount of your Expected Family Contribution, the federal processing agency uses the FAFSA data that you and your family submit in a formula mandated by the U.S. Congress, the Federal Methodology. The EFC is the amount that you (and your parents, if you are dependent; your spouse, if you are married) can contribute toward your educational costs. The EFC is stated as a five-digit number (00000 to 99999) on the Student Aid Report (SAR).

The federal processing agency will mail a Student Aid Report to you within four weeks of receiving your FAFSA. The SAR either will identify your EFC or request additional action that will allow the EFC to be determined. Carefully read and follow the SAR instructions.

You are not required to submit your SAR to the Office of Scholarships and Financial Aid. The FAFSA processing agency will electronically transmit your SAR data to the Office.

Financial Need

Purposes of the Student Aid Report (SAR):

1. The SAR data are used by OSFA to determine the type(s) and amount(s) of financial aid you will be awarded, if any. That is, the SAR data are used to determine your financial need.
2. The SAR states whether or not you are eligible for a Federal Pell Grant.
3. The SAR states whether or not your application has been selected for verification, which is explained below.

Financial Need: To determine your financial need, OSFA subtracts the amount of your EFC (expected family contribution) from the average COA (cost of attendance) at Wayne State University: COA minus EFC = financial need.

The COA, which also is referred to as the ‘student budget,’ usually is the sum of costs for tuition; fees; room and board; books and supplies; transportation; and miscellaneous expenses. As a state institution, Wayne State University has a relatively low COA. Caution: The following amounts are estimated averages and may not reflect your actual expenses.

Off-Campus Cost of Attendance (COA)

The estimated average total cost for the 2003-2004 academic year is $16,356 for a Michigan resident who is an undergraduate, student enrolled full-time, living off campus.

Tuition and Fees: $4,755
Books and Supplies: $800
Room and Board: $6,500

1. Subject to change by the WSU Board of Governors without notice.
Transportation & Misc.: $3,301
Total Cost (Budget): $15,356

On-Campus Cost of Attendance (COA)
The estimated average total cost for the 2003-2004 academic year is $14,356 for a Michigan resident who is an undergraduate, student enrolled full-time, living on campus.

Tuition and Fees: $4,755
Books and Supplies: $800
Room and Board: $6,500
Transportation & Misc.: $2,301

Total Cost (Budget): $14,356

Verification Process: The process by which a college or university confirms the data on an individual student’s FAFSA is called verification. If the federal processing agency selects your application for verification, OSFA will ask you to provide additional information to document that the information reported on your FAFSA is accurate. OSFA also will request a copy of your federal tax return (and your parents’ federal tax return, if you are dependent; your spouse’s federal tax return, if you are married). After verifying the additional information that you submit, OSFA will send corrections for your FAFSA to the federal processing agency, if necessary. That agency will then send a corrected SAR to you and transmit the data electronically to OSFA.

Standards of Satisfactory Academic Progress: To receive financial aid, you must maintain satisfactory academic progress toward your degree or certificate. The Wayne State University standards of satisfactory academic progress govern all federal and state financial aid programs and Board of Governors scholarships and grants. They contain three elements: (1) the maximum length of time for which you may receive financial aid; (2) the number of credit hours you must complete each academic year; and (3) The grade point average (GPA) you must maintain. The Standards of Satisfactory Academic Progress Policy is available from OSFA and on the OSFA Web site, http://www.financialaid.wayne.edu

Academic Enrollment Requirements: To receive consideration for the maximum award amounts under financial aid programs, you must enroll full-time in a program that leads to a degree or certificate. At the undergraduate graduate level, enrollment for twelve or more credits is full-time; enrollment for six to eleven credits is half-time. If you enroll less than full-time but at least half time, financial aid will be prorated.

Eligible Program Exceptions: A student must be enrolled in an eligible program (one that leads to a degree or certificate) to receive consideration for financial aid funds. There are two exceptions to the eligible program requirement: (1) enrollment in prerequisite course work to gain admission to an eligible program, and (2) enrollment in the teacher certification program. Descriptions of the exceptions are available from OSFA and on the OSFA Web site, http://www.financialaid.wayne.edu

Programs Ineligible for Financial Aid: Students who meet any of the following admission criteria are not eligible for financial aid.

1. Admission to the University is granted with status as a ‘Guest Student,’ ‘Permit to Register,’ or undergraduate ‘temporary’ admit.
2. Enrollment is not in program that leads to a degree or certificate and neither of the eligible program exceptions listed above applies.
3. Admission to the University or enrollment is in the English Language Institute or Post-Bachelor’s Rank 06.

Financial Aid Payment
Financial aid is paid in two disbursements if the award is for the academic year. Half of the award is paid in the fall term and half if paid in the winter term.

Refund Policy: The University has a refund policy, which is stated in the Schedule of Classes. Federal regulations require all post-secondary institutions to have a fair and equitable refund policy for recipients of federal (Title IV) financial aid. The Refund Policy for Title IV Financial Aid Recipients states the conditions under which federal aid must be returned to the originating programs when a student completely withdraws from the University before completing more than 60 percent of the enrollment period. The policy is available from OSFA.

Caution: OSFA strongly encourages you to discuss with a financial aid administrator the effect withdrawing from courses will have on financial aid before you implement the change. After officially withdrawing from classes you must immediately notify OSFA of your enrollment status change.

1. The Budget may be adjusted to include loan fees (if applicable); dependent care directly related to attendance at Wayne State; costs related to a disability; reasonable costs for eligible study-abroad programs; and an allowance for reasonable costs connected with a student’s employment as part of a cooperative education program. Out-of-state tuition is $12,753.00.
2. Subject to change by the WSU Board of Governors without notice.
DEGREE REQUIREMENTS

DEGREE REQUIREMENTS: To earn a bachelor’s degree at Wayne State University, a student must satisfy the following minimum requirements, as well as any other requirements for specific degrees stipulated by the Schools/Colleges, Departments, and Programs of the University:

1. Complete a minimum of 120 credits with a cumulative grade point average of 2.00 or higher for all Wayne State University course work.
2. Complete the University General Education Requirements as specified below.
3. Complete all School/College, Departmental and Program requirements.
4. Complete a minimum of thirty credits at Wayne State University.
5. Credit Limitations:
   a) Credit by special examination may not be counted as resident credit, but such credit, if earned during a semester in which the student is registered for a regular course(s), will not be considered an interruption of residence.
   b) Not more than thirty-two credits earned through one or more of the following programs will apply towards graduation: credit earned by the College-Level Examination Program, Advanced Placement, International Baccalaureate, Credit by Special Examination, or other credit earned for a course in which the student has not been regularly enrolled in a University course.
   c) Not more than sixteen credits by Special Examination may be earned in any one subject.
   d) Not more than sixty-four credits transferred from a two-year institution may be applied toward graduation.

SECOND BACHELOR’S DEGREE: A student who holds a bachelor’s degree from any accredited institution may receive a second bachelor’s degree from Wayne State University by satisfying the following minimum requirements:

1. Complete at least thirty credits at Wayne State University beyond the first bachelor’s degree.
2. Meet all School/College, Department, and Program requirements for the degree.

CONCURRENT DEGREES: A student who wishes to simultaneously receive two different bachelor’s degrees from Wayne State University must satisfy the following minimum requirements:

1. Complete a minimum of 150 credits.
2. Complete all University, School/College, Department, and Program requirements for each degree.

GRADUATION APPLICATION: Degrees are NOT awarded automatically upon completion of scholastic requirements. To be considered as a candidate for a degree, students must file an Application for Degree form with Student Records by the first day of classes for the term in which the students expect to graduate.

SCHOOL/COLLEGE REQUIREMENTS: Schools/Colleges, Departments, and Programs may establish degree requirements above and beyond those stated here. For statements of any such specific degree requirements, students should consult the School/College and Departmental sections of this bulletin.

UNIVERSITY REQUIREMENTS IN GENERAL EDUCATION

Major, minor, cognate and elective credit requirements for University degrees are specified by the individual Schools and Colleges of Wayne State University. Students should consult the respective School and College sections of this bulletin for these requirements. ALL undergraduate degree programs include satisfaction of the University General Education Requirements, which are outlined below.

University-wide General Education Requirements apply to all undergraduate students seeking baccalaureate degrees from Wayne State University — irrespective of the College or School in which they may be enrolled. Since the various Colleges and Schools may impose additional College or School requirements and/or specify particular courses which their students must elect in fulfilling the University-wide Requirements, it is essential that all students seek advice from the Wayne State University Undergraduate Bulletin, the University Advising Center and their respective College/School Advising Office before electing courses to satisfy these General Education Requirements. It is the responsibility of the student to satisfy all University, College and program requirements.

The University-wide Program in General Education seeks to enhance facility in those basic skills which are fundamental to success in college while simultaneously providing the intellectual breadth necessary to place specialized and professional curricula in proper perspective. The primacy of basic skills is established by requiring all undergraduate students to demonstrate competence in written communication, mathematics, oral communication, computer literacy, and critical thinking. The significance of intellectual breadth is underscored by requiring all students to elect and successfully complete two courses (minimum of six credits) in the natural sciences, one course (minimum of three credits) in historical studies, two courses (minimum of six credits) in the social sciences, one course (minimum of three credits) in foreign culture, two courses (minimum of six credits) in the humanities, and one course (one credit) which provides an introduction to the University and its libraries (UGE 1000: Information Power). (Courses elected to satisfy these requirements must be made from approved lists: see below.) By means of this Program, undergraduate students will improve their basic skills and be introduced to methods of inquiry, modes of thought, bodies of knowledge, and representative ideas drawn from a wide range of academic disciplines.

General Education Implementation Schedule: Effective Fall Term 1987, Wayne State University required undergraduate students to fulfill the University-wide General Education Requirements. The Requirements have been implemented in accordance with the following schedule:

Fall Term 1987: The General Education Requirements apply to all entering freshmen and students who transfer twelve or fewer credits.
Fall Term 1990: The General Education Requirements apply to the group of students cited above and to transfer students who began college work in Fall 1988 or thereafter.
Fall Term 1991: The General Education Requirements apply to all undergraduate students.

Transfer students who are not covered by the above schedule and who entered Wayne State University between Fall Term 1987 and Spring/Summer Term 1991 must fulfill the University Proficiency Requirements in English and Mathematics and the University Requirement in American Government, outlines of which may be found below.
Students who have matriculated at Wayne State University prior to Fall Term 1987 must fulfill all University and School/College requirements in force at the time of entry. These include the University Requirement in American Government and the University Proficiency Requirements in English and Mathematics, outlines of which may be found below.

Students who hold a bachelor’s degree from an accredited institution and who seek a second bachelor’s degree are exempt from the University-wide General Education Requirements, but must satisfy all school/college, department and program requirements.

**General Education Course Prefixes:** Parenthetical two-letter prefixes denote content areas of subjects and identify courses approved for satisfying competency requirements and group requirements in the University’s General Education Program. The following prefixes, listed and defined in alphabetical order, precede course titles in the Courses of Instruction sections and curricular information in this bulletin, and in each semester’s Schedule of Classes.

(AY) — American Society and Institutions
(BC) — Basic Composition
(CL) — Computer Literacy
(CO) — Computer Operating
(CT) — Critical Thinking
(EH) — English Competency
(EP) — English Proficiency
(RE) — Foreign Language
(GE) — General Education
(HS) — Historical Studies

### Competency Requirements

Competence in fundamental skills which underlie and make possible the acquisition of knowledge is required of all who would succeed in college and function as educated citizens. Without command of these skills (writing, mathematics, speaking, computing, and analysis), basic courses prove difficult and advanced work becomes an insurmountable obstacle. Since it is the skills which are prerequisites for success in higher education, competence, not simply a record of successfully completed course work, is expected. Therefore, multiple methods are provided for demonstrating competence and satisfying these requirements: (1) satisfactory performance on placement, proficiency, screening, or competency examinations; OR (2) in some cases, satisfactory completion of specified high school courses; OR (3) satisfactory completion of designated University courses or their equivalents. Information regarding placement, proficiency, screening or competency examinations may be obtained from the Testing, Evaluation, and Student Life Research Services (698 Student Center).

Competency requirements should be met early in a baccalaureate degree program. WITH THE EXCEPTION OF THE WRITING-INTENSIVE MAJOR COURSE REQUIREMENT, ALL COMPETENCY REQUIREMENTS SHOULD BE SATISFIED BY THE TIME SIXTY CREDITS OF COLLEGE WORK HAVE BEEN COMPLETED. Students who fail to meet this deadline will be allowed two additional semesters (or equivalent) in which to satisfy their remaining competency requirements. During these two semesters, they must be actively involved in taking appropriate courses or otherwise preparing themselves to demonstrate competence in these fundamental skills. After completing ninety credits, students who have not satisfied these requirements will be barred from enrolling in courses other than those which satisfy competency requirements until all such requirements have been completed.

The following general principles apply to all competency requirements:

1. Students who satisfy any competency requirement by passing a Wayne State University placement, qualifying, screening, competency or proficiency examination shall be excused from equivalent course work but shall receive NO course credit.

2. Course credit granted for satisfactory completion of an Advanced Placement, CLEP, or Departmental Examination will satisfy the appropriate competency or group requirement; credit so earned will be applicable to a baccalaureate degree.

3. Remedial courses (i.e., those numbered below 1000) required because of failure to demonstrate competence will yield NO credit toward a degree.

### WRITTEN COMMUNICATION (BC, IC, EP, WI): Writing ability is fundamental to success in almost all human activity. It is a cornerstone of academic studies and is often considered the touchstone of a university education. Skill and effectiveness in writing serve the individual throughout life—in career, in community, and in social and avocational activities.

But the ability to write well must be developed so that specialized audiences within professional fields as well as general audiences can be addressed effectively. While writing proficiency may be honed and refined in composition courses, writing is a skill that serves many purposes, one that requires constant renewal. Consequently, the concept of ‘writing across the curriculum’ as a way of making the skill a habit is strongly recommended, and the requirement in Written Communication is structured not only to provide training in how to write well, but also to insure that writing skills continue to be exercised and enhanced throughout the undergraduate years. This requirement contains the following four components:

**Basic Composition (BC):** All students must demonstrate competence in basic composition by:

- a) Earning an appropriate score on the University’s English Qualifying Examination; OR
- b) Earning credit for basic composition through Advanced Placement or CLEP tests; OR
- c) Completing successfully an approved course in basic composition: ENG 1020, 1050, ISP 1510; OR
- d) Transferring credit received for successful completion of a comparable course taken at another college or university.

**Intermediate Composition (IC):** All students must successfully complete an approved intermediate or advanced course in which the teaching of English composition and rhetoric is a major component, or transfer credit received for successful completion of a comparable course taken at another college or university.

The purpose of this requirement is threefold: a) to emphasize the relationship between analytical reading and the acquisition of writing skills—especially the ability to organize and sustain extensive writing assignments; b) to acquaint students with works of imaginative, expository, argumentative, and/or analytical writing in the English language; and c) to develop an understanding of the nature and function of language. Courses currently approved for intermediate composition are: AFS 2390; ISP 4991; ENG 2050, 2100, 2110, 2120, 2210, 2310, 2390, 2570, 3010, 3050; ISP 3510; I H 2010; HUM 2000.

**English Proficiency Requirement (EP):** PRIOR TO COMPLETING SIXTY CREDITS, ALL STUDENTS MUST DEMONSTRATE COMPETENCE IN WRITTEN COMPOSITION BY PASSING THE ENGLISH PROFICIENCY EXAMINATION. (Students who fail this examination should prepare to repeat it by taking advantage of directed self study opportunities and/or tutorial assistance provided by the English Composition Clinic. Students who fail the English Proficiency Examination a second time must elect and satisfactorily complete ENG 1080, (EP) Writing Workshop.

**Writing-Intensive Course in Major (WI):** All students must demonstrate an ability to communicate effectively with specialized or professional audiences by completing successfully the writing requirements (courses which incorporate major writing assignments) specified by the departments or professional schools in which they are seeking degrees. Students should consult their departmental adviser for the approved course(s) in their major.
MATHEMATICS (MC): All educated individuals should possess a basic mastery of mathematical skills in order to cope with academic subjects in which mathematical formulations form an integral part of the subject matter, deal with mathematical manipulations which might be required in their careers, manage their personal finances, and understand mathematical elements relevant to public issues.

Students enrolled prior to Fall Term 1990 may satisfy the mathematics proficiency requirement as outlined on page 27. Students who enroll Fall Term 1990 and thereafter may satisfy the mathematics proficiency requirement by one of the following means. PRIOR TO THE COMPLETION OF THIRTY CREDITS, ALL STUDENTS MUST DEMONSTRATE COMPETENCE IN MATHEMATICS BY:

a) Taking the Department of Mathematics Placement Examination and placing out of MAT 0993 or a higher-level Mathematics course (or by achieving a grade of S in MAT 0993). Students who place into MAT 0993 must satisfactorily complete MAT 0993 or MAT 0991; OR
b) Achieving an acceptable test score on the quantitative or mathematics section of one of the following tests: AP-CEEB, or CLEP; OR
c) Transferring credit received for successful completion of a course which is equivalent to MAT 1800 OR MAT 2010 (or higher) taken at another college or university.

ORAL COMMUNICATION (OC): Educated persons should be comfortable in situations which require them to make oral presentations, convince others of a point of view, or make appropriate remarks in an informal setting. Along with an inability to write cogently, difficulty in communicating orally is mentioned most frequently by employers and others who evaluate the preparedness of college students to compete in contemporary adult society. Consequently, oral communication is a crucial skill needed for success in virtually every field of endeavor. PRIOR TO COMPLETING SIXTY CREDITS, ALL STUDENTS MUST DEMONSTRATE COMPETENCE IN ORAL COMMUNICATION BY:

a) Completing successfully suitable high school courses, or their equivalent, in oral communication; OR
b) Passing the Oral Communication Competency Examination; OR
c) Completing successfully an approved course in oral communication: COM 1010; ENG 3060; ISP 1560; OR
d) Transferring credit received for successful completion of a comparable course taken at another college or university.

COMPUTER LITERACY (CL): Since the application of computer technology to virtually all academic disciplines and their corresponding array of occupations is clearly a central fact of contemporary life, the need for students to become computer-literate is essential. In the modern world, it is vital that students possess some elementary knowledge of computer functions: they should be able to initiate a file and operate word-processing software, understand how to gain access to the University’s main computer system, and command the basic skills needed to perform simple on-line data retrieval and manipulative operations. PRIOR TO COMPLETING SIXTY CREDITS, ALL STUDENTS MUST DEMONSTRATE COMPUTER LITERACY BY:

a) Completing successfully a suitable high school course in computing; OR
b) Passing the Advanced Placement (AP) Examination in Computer Science; OR
c) Passing the Computer Literacy Competency Examination; OR
d) Completing successfully an approved computer application course such as: B E 1010; COM 2050, 3210; CSC 1000, 1050, 1100, 1140, 1500, 2110, or any higher-level CSC course; IST 2710; ISM 2630; MED 5590; MUA 5610; NUR 1110; OR
e) Transferring credit received for successful completion of a comparable course taken at another college or university.

CRITICAL THINKING (CT): The ability to reason critically is essential to the acquisition of knowledge in any discipline and may therefore appropriately be regarded as a fundamental skill, one to be acquired by students as early as possible in their education. Critical thinking includes: formulating and identifying deductively- and inductively-warranted conclusions from available evidence; recognizing the structure of arguments (premises, conclusions, and implicit assumptions); assessing the consistency, inconsistency, logical implications, and equivalence among statements; and recognizing explanatory relations among statements. ALL STUDENTS MUST DEMONSTRATE COMPETENCE IN CRITICAL THINKING PRIOR TO THE COMPLETION OF SIXTY CREDITS BY:

a) Passing the Critical Thinking Competency Examination; OR
b) Completing successfully an approved course in critical thinking: B A 1010; COM 2110; ISP 3260; PHI 1050; OR
c) Transferring credit received for successful completion of a comparable course taken at another college or university.

Group Requirements

As knowledge proliferates and the interrelatedness of separate disciplines becomes increasingly evident, the traditional goal of mastering discrete or representative bodies of common, canonic material has become obsolete; even the aim of becoming familiar with all areas of knowledge has become an impossible objective. A commitment to intellectual diversity, though, must remain a central goal of any coherent undergraduate experience, and all college students must be exposed to a broad range of basic disciplines. Thus, courses specifically designed to insure that students are adequately exposed to representative branches of knowledge are fundamental to any set of general education requirements, and course work in areas outside specialized fields is required of all undergraduates at Wayne State University. These courses provide the conceptual framework within which major and professional curricula are placed in proper perspective and supply an appropriate foundation upon which continuing self-education can take place.

In addition to providing breadth of knowledge, however, the general education Group Requirements aim to foster awareness and appreciation of how scholars and scientists in various disciplines acquire knowledge — particularly, how recently-developed epistemological and methodological approaches are applied. Thus, the purpose of the Group Requirements is two-fold: to acquire a broad range of knowledge, and to develop methodological skills which encourage continued exploration on an independent level.

To satisfy the Group Requirements, students will be introduced to materials drawn from the natural sciences, the social sciences, historical studies, foreign culture, and the humanities. Courses which fulfill the Group Requirements carry a minimum of three credits and constitute broad introductions to individual academic disciplines. Such courses are designed for non-majors; however, some courses designed specifically for majors, or for those with substantial prior preparation, may also be acceptable. The following principles apply to the general education Group Requirements:

1. Courses which satisfy the Group Requirements must be elected from lists of approved courses.
2. Students who place out of a course or courses which satisfy one or more of the Group Requirements will be considered to have fulfilled those portions of the Group Requirements represented by such courses.
3. For the purpose of satisfying these Group Requirements, students may elect no more than one course from a single subject area as defined by the University system of subject area codes. (Subject area codes are the letter designations which precede course numbers.) For example, a student who takes a HIS (History) course to fulfill a group requirement cannot take a HIS course to fulfill any other group requirement.
4. Where specified, a Group Requirement may be satisfied by approved course sequences.

General Information 25
NATURAL SCIENCE (PS, LS): The evolution of science in the last four centuries has profoundly influenced the development of thought throughout the world. The natural sciences, both directly and through their applications in technology, present society with problems as well as opportunities. By transforming cultural values and beliefs, the sciences have altered behavior and created new pathways to the future. Thus, university graduates should understand the nature and applications of scientific knowledge, the processes by means of which it is generated and tested, and its limitations and capabilities. They should be familiar with phenomena of the natural world and comprehend how theoretical explanations are provisionally accepted by the scientific community.

To meet the natural science requirement objectives, all undergraduate students at Wayne State are required to complete successfully at least one course in the physical sciences and one course in the life sciences as defined below (a minimum of three credits each). A laboratory or interactive demonstration/simulation experience (a minimum of one credit) must be associated with one of these courses. (Courses listed below with an asterisk (*) may also satisfy the Natural Science Laboratory Requirement.)

Physical Sciences (PS): Students must elect one course from the fields of astronomy, chemistry, geology, or physics, or combinations of no more than two of these areas. The following approved options are designed to explain physical laws and their effects on the natural world; emphasis is placed on mathematical predictability and the nature of scientific inquiry.

PHYSICAL SCIENCE OPTIONS:
AST 2010*; CHM 1000*, 1020*, 1220*, 1225*, 1410*; GEL 1010*; IST 2420*; HON 4230; PHY 1020*; 1040, 1070, 2130*, 2170*, 2175, 3100*.

Life Sciences (LS): Students must elect one course from the fields of biology, behavioral psychology, physical anthropology, or combinations of no more than two of these areas. The following approved options are designed to explain the mechanisms which govern the behavior and functioning of living organisms; emphasis is placed on factors which control these mechanisms and the nature of scientific inquiry.

LIFE SCIENCE OPTIONS:
ANT 2110; BIO 1030, 1050*, 1510*, 2200; IST 2310; HON 4220; NFS 2030; PSY 1010*, 1020.*

HISTORICAL STUDIES (HS): Historical studies provide insight into the development of human institutions, their similarities and differences, and the means by which knowledge about the past is acquired. Such studies reveal how contemporary perspectives evolve from past events and enhance our understanding of the present.

To meet the historical studies requirement objectives, all undergraduate students at Wayne State are required to complete successfully at least one course in history (a minimum of three credits) in historical studies. The following approved options do not offer a comprehensive overview of history; rather, they are designed to introduce significant historical periods or themes in which comparative perspectives are emphasized and the purposes and methods of historical studies explained.

HISTORICAL STUDIES OPTIONS:
ANT 3200; HIS 1100, 1200, 1300, 1400, 1600, 1610, 1800, 1810, 1995; HON 4250; ISP 3160; I H 3810; N E 2030, 2040.

SOCIAL SCIENCE (AI, SS): Studying the social sciences assures that students are introduced to several bodies of knowledge which shed light on contemporary social problems and are exposed to theories and methods appropriate to social science investigation (research). The findings of social scientists address such relevant issues as race relations, family structure, the organization of social institutions, politics, economic policy, and international relations. All courses which satisfy the requirements in social science must introduce the methodology of modern, empirical social science.

To meet the social science requirement objectives, all undergraduate students at Wayne State are required to complete successfully at least one course in American society and institutions, and one course in basic social science as defined below (a minimum of three credits each).

American Society and Institutions (AI): Students must elect one course in this area. The following approved options are designed to promote civic literacy by studying American society from the perspective of pluralism; emphasis is placed on the organization of political bodies and the manner in which they function.

AMERICAN SOCIETY AND INSTITUTIONS OPTIONS:
HIS 1050; HON 4270; ISP 3420; ISS 1510; P S 1010, 1030.

Social Science (SS): Students must elect one course in basic social science. The following approved options provide an overview of social structures and illustrate the role of human beings in different institutional arrangements; emphasis is placed on the approaches and methods of modern social science: the significance of theories, models, data collection, analysis, and inference.

SOCIAL SCIENCE OPTIONS:
AFS 2210; ANT 2100; Eco 1000, 2010, 2020; GPH 1100, 2000, 3130, 3200; HIS 2000; HON 4210; ISP 3480; ISS 2710; P S 1000, 2000, 2240; SOC 2000, 2020, 2500, 3300, 3510, 4100; U S 2000; W S 3010.

FOREIGN CULTURE (FC): A significant measure of a college education is the degree to which individual cultural assumptions can be placed in the context of a wider and more diversified world view. Such understanding leads to greater appreciation for the life style and artifacts of different peoples and a tolerance for opinions originating from disparate traditions by helping minimize narrow certainties and dispel provincial attitudes.

To meet these objectives, all undergraduate students at Wayne State are required to complete successfully at least one course (a minimum of three credits) in foreign culture elected from the following list of approved options:

FOREIGN CULTURE OPTIONS:
AFS 3250, 3610; ANT 3150, 3520, 3540, 3550; ARM 3410, 4750; CBS 2410, 2420; DNC 2400; FRE 2710, 2720; GER 2710, 2720, 3410; GRK 3710; HIS 2440; HON 4260; ISP 3600, 3610, 3620; ITA 2710, 2720; JPN 4550, 4560; N E 2000, 3550; NUR 4800; POL 2710, 3410; RUS 2710, 3410; SLA 3410; UKR 3410; or completion of any foreign language sequence through 2010 or 2110.

HUMANITIES (VP, PL): Meaningful exposure to the humanistic disciplines produces more well-rounded and humane citizens, individuals capable of broadening their view of human experience. It also provides an indispensable creative perspective on the teachings of other disciplines. The general education Group Requirements in the humanities afford students an opportunity to examine a range of humanistic statements and to consider some of the ways in which they are meaningful. Analyzing works drawn from across the humanities (arts, philosophy, and letters), considering the varied contexts to which they belong and within which they are properly understood, and evaluating a range of interpretations, leads to an appreciation of how imagination and intellect, working in tandem, provide insight into the nature of human experience.

To meet the humanities requirement objectives, all undergraduate students at Wayne State are required to complete successfully at least one course in the visual and performing arts, and one course in philosophy and letters as defined below (a minimum of three credits each).
The goal of this experience is to enrich the lives of students while at Wayne State University. (F,W) Traditional and automated methods of accessing this material. The information available in the Wayne State Library System and both the resources of the University are used. Students may place out of this requirement; otherwise, UGE 1000 should be completed during the student’s first semester at Wayne State. This requirement must be satisfied prior to completing thirty credits in residence, but no later than the second term at Wayne State University.

Undergraduate General Education Course (UGE)

1000  (GE) Information Power. Cr. 1
Prereq: admission to Wayne State University. Offered for S and U grades only. Designed to empower students to achieve academic success and to develop lifelong learning skills for the information society. Develops student awareness of traditions, goals, and structure of universities and their research libraries, particularly those of Wayne State University. (F,W)
1. Completing successfully (with an overall grade of ‘C’) a four-year program of high school mathematics which includes at least one year of algebra and one year of plane geometry; OR

2. Achieving an acceptable test score on the quantitative or mathematics section of one of the following tests: ACT, SAT, AP-CEEB, or CLEP; OR

3. Achieving an acceptable score on the Placement (Screening) Examination for MAT 1500 or MAT 1800; OR

4. Passing the Mathematics Proficiency Examination. (Students who fail this examination should prepare to repeat it by taking advantage of directed self study opportunities and/or tutorial assistance. Students who fail the Mathematics Proficiency Examination for a second time must elect and satisfactorily complete MAT 0991); OR

5. Transferring credit received for successful completion of an algebra or trigonometry course, taken at another college or university, equivalent to the level of achievement attained in MAT 1500, MAT 1800, or MAT 2010.

Students who do not establish proficiency by the time they earn sixty credits toward a bachelor’s degree will have up to two semesters (or equivalent), without penalty, in which to meet the requirements. During that period they must pass the English Proficiency Examination and/or the Mathematics Proficiency Examination; or, if they fail these, pass English 1080 and/or Mathematics 0991.

The University expects all undergraduate students to meet the English and mathematics proficiency requirements. There shall be strict enforcement of the requirements, and only in extraordinary circumstances will the requirements be waived.

Examinations: The English Proficiency Examination, the Mathematics Proficiency Examination, and the Mathematics Qualifying Examinations are administered by the Testing and Evaluation Office, at regularly scheduled intervals. Students should contact the Testing, Evaluation, and Student Life Research Services Office, for information on examination dates, times, and fees.

Enrollment prior to Fall 1983: For students who first registered at Wayne State University prior to Fall Semester 1983, the following College requirements apply in regard to English proficiency:

Students in the Colleges of Liberal Arts, Nursing, and Pharmacy and Health Sciences who have accumulated forty credits, and students in the School of Business Administration, must take the English Proficiency Examination. Students in the College of Engineering must take the examination at least two semesters before they plan to register for ENG 3050. Students should contact the Testing, Evaluation, and Student Life Research Services Office for information on examination dates, times, and fees.
Table Showing the Various Ways Competencies Requirements May Be Fulfilled (other than through WSU or equivalent transfer courses)

In general, any of the competencies requirements may be fulfilled by obtaining appropriate course credit through Wayne State University Credit by Special Examination procedures (described in the Undergraduate Bulletin). Advanced Placement (AP) and College-Level Examination Program (CLEP) scores shown in these columns will fulfill the General Education Competencies Requirements, but will not necessarily qualify the student to receive college credit. For information about college credit earned through the AP or CLEP exams, refer to the full descriptions of these programs in the Undergraduate Bulletin. Information regarding registration for any of the exams cited below may be obtained from Testing, Evaluation, and Student Life Research Services (698 Student Center Building). (N.A. = Not Applicable)

<table>
<thead>
<tr>
<th>Competency</th>
<th>High School Courses</th>
<th>SAT or ACT score</th>
<th>AP score</th>
<th>CLEP Exam name: score</th>
<th>WSU Qualifying Exam</th>
<th>WSU Proficiency Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. English Composition</td>
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<tr>
<td>1. Basic Composition (BC)</td>
<td>N.A.</td>
<td>N.A.</td>
<td>3, 4, or 5</td>
<td>Eng. Comp: 50</td>
<td>Placement out of</td>
<td>N.A.</td>
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<td>ENG 1020</td>
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<tr>
<td>2. Intermediate Composition (IC)</td>
<td>N.A.</td>
<td>N.A.</td>
<td>4 or 5</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
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<tr>
<td>3. English Proficiency Exam (EP)</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>Exam to be passed</td>
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<td>of 60 credit hrs.</td>
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<td>4. College/School/Dept. Required Writing Intensive Course (WI)</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
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<tr>
<td>B. Mathematics Competency (MC)</td>
<td>N.A.</td>
<td>N.A.</td>
<td>2, 3, 4, or 5</td>
<td>Genl. Math: 50</td>
<td>Exam to be passed</td>
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<td>other means</td>
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<tr>
<td>C. Oral Communication (OC)</td>
<td>2 semesters</td>
<td>N.A.</td>
<td>N.A.</td>
<td>50</td>
<td>N.A.</td>
<td>Exam to be passed</td>
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<td>other means</td>
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<tr>
<td>D. Computer Literacy (CL)</td>
<td>1 semester</td>
<td>N.A.</td>
<td>3, 4, or 5</td>
<td>Information Systems &amp; Computer App.: 50</td>
<td>N.A.</td>
<td>Exam to be passed</td>
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<td>other means</td>
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<tr>
<td>E. Critical or Analytic Thinking (CT)</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>Exam to be passed</td>
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<td>other means</td>
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</tbody>
</table>

* A student who receives a score of 50 in both College Algebra and College Trigonometry will receive credit for MAT 1800 (Cr. 5) and will satisfy Math Competency.
Table Showing How General Education Group Requirements May Be Met through Advanced Placement or College-Level Examination Program Examinations

In general, students will fulfill Group Requirements by successfully completing specially-designated Wayne State University courses or by transferring credit for equivalent courses taken at other collegiate institutions. However, Group Requirements may also be fulfilled by obtaining course credit for these courses through regular WSU Credit by Special Examination procedures or by obtaining course credit through Advanced Placement (AP) or College-Level Examination Program (CLEP) examinations as specified below. See the Undergraduate Bulletin for descriptions of these three examination programs. (Note also that course credit may be granted for AP and CLEP exams other than those indicated below, but such credit will not fulfill General Education Competency or Group Requirements.) The CLEP Examinations, when passed with the indicated scores, grant the student credit for two courses, as follows:

Credit granted for Natural Science Examination is 4 semester credits of physical science and 4 semester credits of biological science.
Credit granted for Social Science and History Examination is 4 semester credits of social science and 4 semester credits of history.
Credit granted for Humanities Examination is 3 semester credits of fine arts and 3 semester credits of literature.

### Table

<table>
<thead>
<tr>
<th>Group Requirement</th>
<th>Advanced Placement Program</th>
<th>College-Level Examination Program</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>AP Test</td>
<td>AP Score</td>
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<tr>
<td>Natural Science:*</td>
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<td></td>
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<tr>
<td>Physical Science (PS)</td>
<td>Chemistry</td>
<td>3, 4, or 5</td>
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<td></td>
<td>Physics (Basic)</td>
<td>3, 4, or 5</td>
</tr>
<tr>
<td></td>
<td>Physics (E &amp; M)</td>
<td>4 or 5</td>
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<tr>
<td></td>
<td>Physics (Mechanics)</td>
<td>4 or 5</td>
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<tr>
<td>Life Science (LS)</td>
<td>Biological Science</td>
<td>3, 4, or 5</td>
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<tr>
<td></td>
<td>Psychology</td>
<td>3, 4, or 5</td>
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<tr>
<td>Historical Studies (HS)</td>
<td>European History**</td>
<td>4, or 5</td>
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<tr>
<td>American Institutions (AI)</td>
<td>American History**</td>
<td>4, or 5</td>
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<tr>
<td></td>
<td>American Government**</td>
<td>3, 4, or 5</td>
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<tr>
<td>Basic Social Science (SS)</td>
<td>Macroeconomics</td>
<td>3, 4, or 5</td>
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<td></td>
<td>Microeconomics</td>
<td>3, 4, or 5</td>
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<tr>
<td>Foreign Culture (FC)</td>
<td>French Language</td>
<td>3, 4, or 5</td>
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<td></td>
<td>German Language</td>
<td>3, 4, or 5</td>
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<tr>
<td></td>
<td>Spanish Language</td>
<td>3, 4, or 5</td>
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<tr>
<td></td>
<td>Comparative Politics**</td>
<td>3, 4, or 5</td>
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<tr>
<td>Humanities:</td>
<td>Visual and Performing Arts (VP)</td>
<td>Art History</td>
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<td>Music History</td>
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<td>Philosophy and Letters (PL)</td>
<td>French Literature</td>
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<td>German Literature</td>
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<td>Spanish Literature</td>
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*If a student satisfies Natural Science in both areas (Life Science; Physical Science) by examination (AP, CLEP, or credit by exam), the Natural Science Laboratory requirement is considered fulfilled.

** Students may NOT receive General Education credit for both European and American History, or for both American Government and Comparative Politics.

30 General Information
Table of University General Education Courses
Listed By Subject Area Codes under General Education Course Title Prefixes

*American Society and Institutions (AI)*
HIS 1050 — (AI) American Civilization Since World War II. Cr. 3-4
HON 4270 — (AI) Seminar in American Society and Institutions. Cr. 3
(Max. 9)
ISS 1510 — (AI) American Political Development. Cr. 4
ISP 3420 — (AI) The American Constitution and the Judicial System. Cr. 4
P S 1010 — (AI) American Government. Cr. 4
P S 1030 — (AI) The American Governmental System. Cr. 3

**Basic Composition Competency (BC)**
ENG 1020 — (BC) Introductory College Writing. Cr. 4
ENG 1050 — (BC) Freshman Honors: English I. Cr. 4
ISP 1510 — (BC) Written Communication Skills. Cr. 4 (Max. 8)

**Computer Literacy Competency (CL)**
B E 1010 — (CL) Introduction to Computers in Engineering. Cr. 3
COM 2050— (CL) Using Computers in Journalism. Cr. 1
COM 3210 — (CL) News Editing. Cr. 4
CSC 1000 — (CL) Introduction to Computer Science. Cr. 3
CSC 1050 — (CL) Introduction to C and Unix. Cr. 2
CSC 1100 — (CL) Problem Solving and Programming. Cr. 4
CSC 1140 — (CL) Introduction to COBOL. Cr. 3
CSC 1500 — (CL) Fundamental Structures in Computer Science. Cr. 3
CSC 2110 — (CL) Introduction to Data Structures and Abstraction. Cr. 4
ISM 2630 — (CL) Fundamental Computer Skills. Cr. 3
IST 2710 — (CL) Computers and Society. Cr. 4
MED 5590 — (CL) Computer Applications in Music Teaching. Cr. 2
MUA 5610 — (CL) Introduction to Music Technology. Cr. 3
NUR 1110 — (CL) Introduction to Computers and Technology for Health Care Professionals. Cr. 2

**Critical Thinking Competency (CT)**
B A 1010 — (CT) Critical Thinking for Consumer Decisions. Cr. 3
COM 2110 — (CT) Argumentation and Debate. Cr. 3
ISP 3260 — (CT) Methods of Search and Critical Thinking. Cr. 4
PHI 1050 — (CT) Critical Thinking. Cr. 3

**English Proficiency (EP)**
ENG 1080 — (EP) Writing Workshop. Cr. 2

*Foreign Culture (FC)*

**EITHER a course from those listed below:**
AFS 3250 — (FC) Politics and Culture in Anglophone Caribbean. Cr. 3
AIS 3610 — (ISP 3610) (FC) Interdisciplinary Perspectives on Foreign Culture: The Africans. Cr. 4
ANT 3150 — (FC) Anthropology of Business. Cr. 3-4
ANT 3520 — (FC) Understanding Africa: Past, Present and Future. Cr. 3
ANT 3540 — (FC) Cultures and Societies of Latin America. Cr. 3
ANT 3550 — (FC) Arab Society in Transition. (N E 3550) Cr. 3
ARM 3410 — (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience (GER 3410) (POL 3410) (RUS 3410) (UKR 3410) Cr. 3
ARM 4750 — (FC) Survey of Armenian Culture and Literature: The Modern Period. Cr. 3
CBS 2410 — (FC) History of Mexico. (HIS 2440). Cr. 3
CBS 2420 — (FC) History of Puerto Rico and Cuba. Cr. 3
DNC 2400 — (FC) Introduction to African Dance. Cr. 3
FRE 2710 — (FC) Introduction to French Civilization I. Cr. 3
FRE 2720 — (FC) Introduction to French Civilization II. Cr. 3
GER 2710 — (FC) Survey of Germanc Culture I. Cr. 3
GER 2720 — (FC) Survey of Germanc Culture II. Cr. 3
GER 3410 — (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience (ARM 3410) (POL 3410) (RUS 3410) (UKR 3410) Cr. 3
GRK 3710 — (FC) Modern Greek Literature and Culture (in English). Cr. 3
HIS 2440 — (CBS 2410) (FC) History of Mexico. Cr. 3
HON 4260 — (FC) Seminar in Foreign Culture. Cr. 3 (Max. 9)
ISP 3600 — (FC) Interdisciplinary Perspectives on Foreign Culture: The Arabs. Cr. 3
ISP 3610 — (FC) Interdisciplinary Perspectives on Foreign Culture: The Africans. (AFS 3610) Cr. 4
ISP 3620 — (FC) Interdisciplinary Perspectives on Foreign Culture: The Chinese. Cr. 3
ITA 2710 — (FC) Italian Culture and Civilization I. Cr. 3
ITA 2720 — (FC) Italian Culture and Civilization II. Cr. 3
JPN 4550 — (FC) Japanese Culture and Society I. Cr. 4
JPN 4560— (FC) Japanese Culture and Society II. Cr. 4
N E 2000— (FC) Introduction to Islamic Civilization of the Near East. Cr. 3
N E 3550 — (ANT 3550) (FC) Arab Society in Transition. Cr. 3
NUR 4800 — (FC) Transcultural Health Through the Life Cycle. Cr. 3
POL 2710 — (FC) Survey of Polish Culture. Cr. 3
POL 3410 — (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410) (GER 3410) (RUS 3410) (UKR 3410) Cr. 3
RUS 2710 — (FC) Study of Russian Culture. Cr. 3
RUS 3410 — (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410) (GER 3410) (POL 3410) (RUS 3410) (UKR 3410) Cr. 3
SLA 3410 — (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410) (GER 3410) (POL 3410) (RUS 3410) (UKR 3410) Cr. 3
UKR 4100 — (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410) (GER 3410) (POL 3410) (RUS 3410) (UKR 3410) Cr. 3

**OR completion of one of the following foreign language sequences (through 2010 or 2110, as applicable):**
ARB 2010 — (FC) Intermediate Arabic I. Cr. 4
ARM 2010 — (FC) Intermediate Armenian. Cr. 4
CHI 2010— (FC) Intermediate Chinese. Cr. 4
FRE 2010 — (FC) Intermediate French. Cr. 4
GER 2010 — (FC) Intermediate German. Cr. 4
GRK 2010 — (FC) Intermediate Ancient Greek. Cr. 4
GRK 2110 — (FC) Intermediate Modern Greek I. Cr. 4
HEB 2010 — (FC) Intermediate Hebrew I. Cr. 4
ITA 2010 — (FC) Intermediate Italian. Cr. 4
JPN 2010 — (FC) Intermediate Japanese I. Cr. 4
LAT 2010 — (FC) Intermediate Latin. Cr. 4
POL 2010 — (FC) Intermediate Polish. Cr. 4
RUS 2010 — (FC) Intermediate Russian. Cr. 4
SPA 2010 — (FC) Intermediate Spanish I. Cr. 4
SWA 2010 — (FC) Intermediate Swahili. Cr. 4
UKR 2010 — (FC) Intermediate Ukrainian. Cr. 4

**Historical Studies (HS)**

ANT 3200 — (HS) Lost Cities and Ancient Civilizations. Cr. 3
HIS 1100 — (HS) The Ancient World. Cr. 3-4
HIS 1200 — (HS) The Medieval World. Cr. 3-4
HIS 1300 — (HS) Europe and the World: 1500-1945. Cr. 3-4
HIS 1400 — (HS) The World Since 1945. Cr. 3-4
HIS 1600 — (HS) African Civilizations to 1800. Cr. 3-4
HIS 1610 — (HS) African Civilizations Since 1800. Cr. 3-4
HIS 1800 — (N E 2030) (HS) The Age of Islamic Empires: 600 - 1600. Cr. 3.

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HIS 1810 — (N E 2040) (HS) The Modern Middle East. Cr. 3
HIS 1995— (HS) Society and the Economic Transition. Cr. 3
HON 4250 — (HS) Seminar in Historical Studies. Cr. 3 (Max. 9)
I H 3810 — (HS) Discovering the Past. Cr. 3-4
ISP 3160 — (HS) World War I as a Turning Point: Historical Perspectives. Cr. 4
N E 2030 — (HS) The Age of Islamic Empires: 600 - 1600 (HIS 1800). Cr. 3.
N E 2040 — (HS) The Modern Middle East (HIS 1810). Cr. 3.

Intermediate Composition Competency (IC)
AFS 2390 — (ENG 2390) (IC) Introduction to African-American Literature:
Literature and Writing. Cr. 4
ENG 2050 — (IC) Freshman Honors: English II. Cr. 4
ENG 2100 — (IC) Introduction to Poetry: Literature and Writing. Cr. 3
ENG 2110 — (IC) Introduction to Drama: Literature and Writing. Cr. 3
ENG 2120 — (IC) Introduction to Fiction: Literature and Writing. Cr. 4
ENG 2210 — (IC) Great English Novels: Literature and Writing. Cr. 3
ENG 2310 — (IC) Major American Books: Literature and Writing. Cr. 3
ENG 2390 — (IC) Introduction to African-American Literature: Literature and Writing. (AFS 2390) Cr. 4
ENG 2570 — (IC) Literature By and About Women: Literature and Writing. Cr. 3
ENG 3010 — (IC) Intermediate Writing. Cr. 3
ENG 3050 — (IC) Technical Communication I: Report Writing. Cr. 3
HUM 2000 — (IC) Reading and Writing About the Arts. Cr. 3
I H 3810 — (IC) Cultural Identity and the American Experience: Writers' Responses. Cr. 4
ISP 3510 — (IC) Intermediate Reading and Writing. Cr. 4
ISP 4991 — (IC) Senior Essay Seminar I. Cr. 4

Life Sciences (LS)
ANT 2110 — (LS) Introduction to Physical Anthropology. Cr. 3
BIO 1030 — (LS) Biology Today. Cr. 3-4
BIO 1050 — (LS) An Introduction to Life. Cr. 3-4**
BIO 1510 — (LS) Basic Life Mechanisms. Cr. 3-4**
BIO 2200 — (LS) Introductory Microbiology. Cr. 4
HON 4220 — (LS) Seminar in Life Science. Cr. 3
IST 2310 — (LS) Living in the Environment. Cr. 4
NFS 2030 — (LS) Nutrition and Health. Cr. 3**
PSY 1010 — (LS) Introductory Psychology. Cr. 4**
PSY 1020 — (LS) Elements of Psychology. Cr. 3

Mathematics Competency (MC)
MAT 0991 — (MC) Basic Concepts in Mathematics. Cr. 3
MAT 0993 — (MC) Beginning Algebra. Cr. 3

Oral Communication Competency (OC)
COM 1010 — (OC) Oral Communication: Basic Speech. Cr. 3
ENG 3060 — (OC) Technical Communication II: Writing and Speaking. Cr. 3
ISP 1560 — (OC) Dimensions of Oral Communication. Cr. 4 (Max. 8)

Philosophy and Letters (PL)
CLA 1010 — (PL) Classical Civilization. Cr. 3-4
CLA 2100 — (PL) Classical Origins of Western Thought. (HON 2100) Cr. 3
CLA 2200 — (PL) Introduction to Greek Tragedy. Cr. 3-4
COM 2160 — (PL) Contemporary Persuasive Campaigns and Movements. Cr. 3
ENG 2200 — (PL) Shakespeare. Cr. 3
ENG 2500 — (PL) The English Bible as Literature. Cr. 4
ENG 2720 — (PL) Basic Concepts in Linguistics. (LIN 2720) Cr. 3
ENG 3110 — (PL) English Literature to 1700. Cr. 3
ENG 3120 — (PL) English Literature after 1700. Cr. 3
ENG 3140 — (PL) Survey of American Literature. Cr. 3
FRE 2700 — (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature. (SPA 2700) (ITA 2700) (RUS 2700) Cr. 3-4
GER 2310 — (PL) Short Fiction from Central Europe & Russia (SLA 2310). Cr. 3
GER 2700 — (PL) Anguish and Commitment: European Existentialist Literature (SPA 2700) (FRE 2700) (ITA 2700) (RUS 2700) Cr. 3-4
GER 2991 — (PL) Understanding the Fairy Tale. Cr. 3
HON 2100 — (CLA 2100) (PL) Classical Origins of Western Thought. Cr. 3
HON 4200 — (PL) Seminar in Philosophy and Letters. Cr. 3 (Max. 9)
HUM 2100 — (PL) Ancient and Medieval: Literature and the Arts. Cr. 4
HUM 2200 — (PL) Sophomore Honors Colloquium in Humanities. Cr. 4 (Max. 8)
I H 2710 — (PL) Art and Aesthetics: Literature and Philosophy. Cr. 4
I H 3710 — (PL) Significant Issues in Cultural Studies. Cr. 3-4
ITA 2700 — (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature. (SPA 2700) (FRE 2700) (ITA 2700) (RUS 2700) Cr. 3-4
LIN 2720 — (ENG 2720) (PL) Basic Concepts in Linguistics. Cr. 3
PHI 1010 — (PL) Introduction to Philosophical Systems. Cr. 3-4
PHI 1020 — (PL) Honors Introduction to Philosophical Systems. Cr. 3-4
PHI 1030 — (PL) Introduction to Philosophical Problems. Cr. 3-4
PHI 1040 — (PL) Honors Introduction to Philosophical Problems. Cr. 3-4
PHI 1100 — (PL) Contemporary Moral Issues. Cr. 3 (Max. 9)
PHI 2100 — (PL) Ancient and Medieval Philosophy. Cr. 3
PHI 2110 — (PL) Seventeenth and Eighteenth Century Philosophy. Cr. 3
PHI 2320 — (PL) Introduction to Ethics. Cr. 3-4
PHI 3500 — (PL) Theory of Knowledge. Cr. 3
PHI 3550 — (PL) Metaphysics. Cr. 3
PHI 3700 — (PL) Philosophy of Art. Cr. 3
P S 3510 — (PL) Law, Authority and Rebellion. Cr. 4
P S 3520 — (PL) Justice. Cr. 4
RUS 2700 — (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature. (SPA 2700) (FRE 2700) (ITA 2700) (RUS 2700) Cr. 3-4
RUS 3600 — (PL) Literature Before Communism. Cr. 3
RUS 3650 — (PL) Twentieth Century Russian Literature. Cr. 3
SLA 2310 — (GER 2310) (PL) Short Fiction from Central Europe and Russia Cr. 3
SPA 2700 — (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature. (FRE 2700) (ITA 2700) (RUS 2700) Cr. 3-4

* Physical Sciences (PS)
AST 2010 — (PS) Descriptive Astronomy. Cr. 4
CHM 1000 — (PS) Chemistry and Your World. Cr. 3-4**
CHM 1020 — (PS) General Chemistry I. Cr. 4**
CHM 1220 — (PS) Chemical Structure, Bonding, and Reactivity. Cr. 4**
CHM 1225 — (PS) Chemical Structure, Bonding, and Reactivity. Cr. 3**
CHM 1410 — (PS) Chemical Principles I: General/Organic Chemistry. Cr. 6**
GEL 1010 — (PS) Geology: The Science of the Earth. Cr. 4**

General Information
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<th>Course Code</th>
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<td>IST 2420</td>
<td>(PS) Atoms and Stars: A Historical Introduction to Astronomy, Physics</td>
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<td>and the Process of Scientific Discovery</td>
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<td>(PS) Conceptual Physics: The Basic Science</td>
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<td>(PS) Einstein, Relativity &amp; Quanta: A Conceptual Introduction</td>
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<td>PHY 1070</td>
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<td>GPH 1100</td>
<td>(SS) World Regional Patterns</td>
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<td>(VP) Meaning in the Visual and Performing Arts</td>
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<td>(VP) Music and American Culture</td>
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</table>

General Information 33
Graduation with Distinction
Wayne State University bestows upon students completing the bac-
calaureate degree three separate designations for scholastic excel-
ence reflected in the cumulative grade point average: Cum Laude, 
Magna Cum Laude, and Summa Cum Laude. Graduation with dis-
tinction will be indicated on the student’s diploma and on the tran-
script.
Graduation with Distinction will recognize at each graduation the top
twenty per cent of students in each college who have earned the
highest grade point average in their colleges, with the following
approximate distribution:
Summa Cum Laude: Top five per cent
Magna Cum Laude: Next five per cent
Cum Laude: Next ten per cent
The specific minimum grade point average will be determined each
year in the following manner, except that it shall not be less than 3.0:
Based on the grade point average distributions of the previous year’s
senior class, the grade point average cut-offs for each college will be
established to provide for recognition of the top eighteen to twenty
per cent of the graduating students.
The criteria for Graduation with Distinction include:
1. A minimum of sixty credits in residence at Wayne State University.
2. A qualifying minimum grade point average (calculated as
explained above) on all work at Wayne State University must be com-
pleted by the end of the semester of graduation. (For notation in
the commencement program, the grade point average on all work com-
pleted prior to the semester of graduation will be used.)

UNDERGRADUATE HONORS CURricula
The University’s honors curricula serve to challenge highly motivated
students through courses of advanced study; to provide academic
programs of unusual breadth and depth; to provide recognition of
outstanding scholastic achievement; to foster interest in research
and scholarly activity; and to provide students an opportunity to work
with outstanding faculty.

Two types of curricula are available in the University Honors Pro-
gram: a University-wide Honors Curriculum; and a College or Depart-
ment Honors Curriculum.

Dual Recognition: Students who complete the requirements of both
the University-wide Honors Program and, in addition, the require-
ments of a college/department Honors Program, shall have both des-
ignations on the transcript and the diploma. Only a single senior
essay, thesis, or project shall be required.
For information in addition to the summaries provided below, stu-
dents should contact the Director of Honors Programs, who is
responsible for overall administration of the University’s honors cur-
ricula, or their program adviser, about college or departmental pro-
grams.

University-wide Honors Curriculum
The University-wide Honors Program allows undergraduate students
in any college or school to pursue individually-designed Honors Pro-
grams which complement their majors. Students may pursue the Uni-
versity-wide Honors Curriculum only, or a college/departmental
Honors curricula in conjunction with the University-wide Honors Cur-
rriculum.

Admission: Students with excellent academic records are eligible
and may enter the University’s Honors Program. In considering par-
ticipants in the program, emphasis shall be placed on the character of
the student’s prior accomplishments, and on measures of potential
appropriate to the individual and his/her field. Normally, the following
are required:

Entering Freshmen: Any entering freshmen with a high school grade
point average of 3.5, or a composite ACT score of 26 or SAT com-
bined score of 1100, is eligible for admission to the Honors Program.
Matriculated Students: Students who have a cumulative grade point
average of 3.3 or above at Wayne State University for twenty-four
successive credits, and who have satisfied the English and Mathema-
tics Proficiency Requirements, may apply for admission to the
program.
Transfer Students: Students who have completed a minimum of fif-
ten hours of college credit with a cumulative grade point average of
3.3 at another postsecondary institution are eligible to apply for
admission to the program. Transfer students must have a composite
ACT score of 26 or SAT combined score of 1100. Normally, no stu-
dent shall be admitted to the University Honors Curriculum who has
fewer than sixty credits remaining for undergraduate study at Wayne
State University. No more than a maximum of half of the total
required credit hours of honors work may be transferred from another
institution.

Students whose cumulative grade point average is at least 3.3, but
who are not formally in the Honors Program, are eligible to elect hon-
ors courses to enrich their educational experiences.

Program Requirements: The program requires honors-designated
course work which constitutes at least twenty per cent of the required
credits for the baccalaureate program the student is pursuing. In no

case may the Honors credits be less than twenty-four credits. Stu-
dents in this program must satisfy the General Education Require-
ments, but the approved General Education courses may, with prior
approval, differ for the Honors Program. The Honors Adviser shall
develop with the student an individual program of study appropriate
to the student. The program of study must be approved by the stu-
dent’s home college. Students must complete a minimum of sixty
credits in residence at Wayne State University.

Retention: The academic record of each student shall be reviewed at
regular intervals. To remain in the University Honors Program, a stu-
dent normally shall be expected:

a) to pursue a program consistent with the objectives of the Honors
Program, as recommended by the University Honors Council and
approved by the President or his/her designee; and
b) to maintain a cumulative grade point average greater than or equal
to 3.3; however, colleges/departments may establish a higher g.p.a.
for retention in a college/department program.

A student whose cumulative grade point average is below 3.3 and is,
for that reason, dropped from the Honors Program, may reapply
when his/her cumulative g.p.a. is 3.3 or higher.
Graduation: For graduation, students must have a minimum cumula-
tive grade point average of 3.3, and 3.3 in Honors work, and must
complete a minimum of twenty per cent of their degree credits (but no
less than twenty-four credits) in honors-designated course work
(including credits in an independent research project, essay or the-
sis) with a minimum cumulative grade point average of 3.3 for Uni-
versity Honors. Students must complete a minimum of sixty credits in
residence at Wayne State University. Graduates of the University-
wide honors program will be so recognized on the transcript and
diploma.

College or Department Honors Curricula
Undergraduate programs in colleges and schools shall be encou-
raged to develop programs leading to honors. College or department
Honors Programs are included in college and department sections of
this Bulletin.

Admission: Students must be admitted to the major or program for
which honors is sought. A minimum grade point average of 3.3 is
required for enrollment in college/department programs; however,
colleges/departments may establish a higher grade point average for
admission.
Program Requirements: College or department Honors Curricula usually require no more than twelve credits in honors-designated course work of which at least three credits may be in an independent research project, essay, or thesis in the student’s college/department. Students also must meet the requirements of their major fields. The honors requirements for the major may include approved modifications of normal major requirements.

Retention: To remain in a college or department Honors Program, a student normally shall be expected to maintain a cumulative grade point average greater than or equal to 3.3; however, colleges/departments may establish a higher g.p.a. for retention in college/department programs.

Graduation: For graduation with honors, students must have a minimum grade point average of 3.3; but college or department Honors Programs may establish a higher g.p.a. Normally, the grade point average of honors graduates should be among the top twenty-five per cent of the seniors in a particular college.

Henry and Donnelly Awards

The David D. Henry Award and the Howard A. Donnelly Award are given annually to the man and woman at graduation who have been judged as having made the most outstanding contributions to the University in the areas of student activities, leadership and service. These contributions must be consistent with high scholarship during the recipients’ entire undergraduate careers.

The David D. Henry Award was established in 1948 to honor the third University President and is granted at the Fall commencement ceremony. The Howard A. Donnelly Award was established in 1927 at the request of Mr. Howard Donnelly, a friend of the University, through a grant provided in his name. The Donnelly Award is granted at the Winter commencement ceremony.

The winners of these awards are determined by the David D. Henry/Howard A. Donnelly Award Selection Committee. The Committee is comprised of academic representatives from each undergraduate degree granting college and school of the University and from the Division of Student Development and Campus Life.

Global Education / World Bridge

WORLD BRIDGE
385 Manoogian Hall; 577-3022
Web: http://www.worldbridge.wayne.edu/

World Bridge coordinates international educational activities at Wayne State. Key activities include the administration of a global grant competition to support students in study/internship programs outside the U.S.; the administration of the Fulbright program; greeting international visitors to the Wayne State campus; coordinating international travel for Wayne State delegations; and coordinating agreements between Wayne State and universities outside the United States.

STUDY ABROAD OFFICE
2 East, Helen Newberry Joy Student Services Center; 577-3207; e-mail: studyabroad@wayne.edu

This is the official University office for study abroad programs. These programs are offered in collaboration with academic departments, faculty, and U.S. and foreign institutions, in order to combine academic study with a cross-cultural learning experience in a foreign environment. The Office offers a full range of support services to students on such issues as program selection, academic planning, registration, credit, financial aid, and cultural adjustment. In addition, program materials have been designed specifically to assist students in preparing for their study abroad experience. Books, brochures, catalogs on academic and travel/study programs in foreign countries are available at the Study Abroad Resource Center, including information on Wayne State’s thirteen foreign-study programs and other programs sponsored by American and foreign institutions.

A variety of program options have been developed to address the diverse needs of students. Programs vary in length, level, academic focus, teaching format, language requirements, cost, and degree of independence demanded of the participant. Course credit is available on approval for many foreign study programs; credit approval should be obtained before entering a foreign study program.

Also see College of Liberal Arts Study Abroad, page 231.

EurAm Center (France): Located in the heart of the Loire Valley, a 1000-year-old abbey is the site for a semester-long study opportunity for Wayne State students. This program is ideal for freshmen and sophomores looking for General Education Foreign Culture credit. All courses, with the exception of the foreign language courses, are taught in English. For information on this program, contact the Study Abroad Office, 577-3207.

Japan Center for Michigan Universities: The Japan Center for Michigan Universities (JCMU) is a consortium consisting of the fifteen State-supported Michigan public universities, the Michigan Japan Foundation, and Shiga Prefecture. JCMU offers semester- and year-long study opportunities in Hikone, Japan.

The Center’s academic program is designed for students interested in acquiring knowledge about Japanese language and culture, including those not majoring in Japanese studies. It provides semi-intensive Japanese language courses and several core courses on Japanese culture to Michigan and other American university students. Academic credit may be granted by a student’s home institution upon successful completion of JCMU courses; independent study is also available. The program also features home-stays in a Japanese community, field trips, and participation in cultural events. For additional information, contact World Bridge, 385 Manoogian; 577-3022.

Other International Opportunities: A number of short-term international study trips for credit are available to Wayne State students; see individual school and college sections of this bulletin for information.

FULBRIGHT GRANTS and other grants for graduate study abroad: The U.S. Fulbright Student program is designed to give recent B.S and B.A. graduates, master’s and doctoral candidates, and young professionals and artists opportunities for personal growth and international experience. Each year the Fulbright Program allows Americans to study or conduct research in over 100 nations. Application deadline depends on the specific program but generally it must be submitted to the campus Fulbright adviser by September of the year prior to the foreign study experience. For more information and application forms, contact the Study Abroad Office, 2 East, Helen Newberry Joy Student Services Center; 577-3207. The Fulbright Program website is: http://www.iie.org/fulbright/us/.

International Students requiring information on study at Wayne State University should contact the Office for International Students and Scholars; see page 53.
STUDENT ACADEMIC SUCCESS SERVICES

Office of the Associate Provost for Retention and Assessment
4092 Faculty/Administration Building; 577-2200

Academic Success Center
1600 David Adamany Undergraduate Library; 577-3165;
Fax: 577-9372
Hours: Mon. - Thurs., 8:30 a.m. - 8:00 p.m.; Fri., 8:30 a.m. - 5:00 p.m.
Web: http://www.success.wayne.edu/

This Center is a ‘one-stop learning shop with a total learning fitness plan’ for students, which has a variety of programs and services oriented toward academic success:

Individual Learning Fitness Plan: Professional learning specialists are available to aid students in academic success. Any Wayne State student may set up a learning fitness plan. A learning specialist and a student may cooperatively develop a learning fitness plan for a particular term, based on the specialist’s assessment of the student’s academic strengths and weaknesses.

Tutoring: Four types of tutoring are available at the Academic Success Center: (1) Students may apply to meet one hour weekly with a student expert, to assist them with work in a particular course; (2) Drop-in tutoring is available at the Center in specific courses; (3) Online tutoring is available in specific courses, (4) Supplemental Instruction (SI) is available in many first-year introductory courses, in which SI leaders collaborate with the course instructor. These student experts attend each lecture, organize and facilitate group study sessions following the lecture (one to three hours per week), and direct students toward academic success. In addition, students may apply for a personal tutor or contact a tutor on the Web: http://www.success.wayne.edu

Reading and Study Skills: Students may enroll in free, structured courses such as R E 0990, Learning Theory and Study Skills, or R E 0995, Analytical Reading for Textbook Study. Students can also work on self-managed, individualized laboratory programs that are developed according to the needs of each student. These programs are designed to improve students’ study skills including vocabulary, reading speed, and comprehension. See page 476 for Reading Efficiency (R E) courses.

Technology Center/Lab: The Center has multi-media computers and computer software available which are designed to improve students’ reading, writing, and math skills. Course-specific reviews and studyware are available for student use, along with material designed to prepare students for taking the GRE, GMAT, LSAT, and MCAT standardized tests. The Lab is equipped with twenty computers, a SMART board and instructor’s station. Scheduled use of Technology Center resources is available to the University community.

Learning Video Library: Individual rooms may be reserved for viewing self-help instructional videos, which cover such topics as time management, test-taking strategies, preparation in mathematics proficiency, and other study skills strategies.

Customized Workshops: Workshops may be scheduled for groups, student organizations, and academic departments, customized to specific needs by Academic Success Center learning specialists. Workshop topics may cover techniques required by individual students, such as managing time, preparing for final examinations, coping with test-taking anxiety, methods of textbook use, reversing negative trends in scholarship, or developing the capacity to concentrate while studying; or may have a specific focus such as: how successful nursing students study, effective study strategies in organic chemistry, or how to navigate the psychology textbook.

Educational Accessibility Services
1600 David Adamany Undergraduate Library; 577-1851; 577-3365 (TTD)
This Office is responsible for providing reasonable accommodations for those persons with disabilities on campus. The Office staff is committed to a philosophy that allows for the full integration and participation of a student with a disability in campus life. Students are offered: consultation prior to University enrollment, priority registration, note-taker services, study rooms with adaptive equipment, alternative testing arrangements, scribes, interpreters, and information on community resources.

University Advising Center
1600 David Adamany Undergraduate Library; 577-2680
Fax: 313-577-5020; Appointments: 313-577-8889;
For hours of operation, visit Website: http://es.wayne.edu/uac/uachome

The University Advising Center provides academic advising to all undergraduate students with undeclared majors and to pre-professional students in the Colleges of Science, Liberal Arts, Fine, Performing and Communication Arts, and Urban, Labor, and Metropolitan Affairs. The Center is staffed by professional advisers. The major responsibilities and services provided by the University Advising Center include the following:

Program Advising helps undergraduate students select the courses designed to fulfill the requirements of their chosen academic programs. Courses are suggested, described, and discussed in connection with students’ intended academic goals. Advisers are fully informed on undergraduate degree requirements, including group requirements, restrictions on credits, transfer credit, and residency.

Advisers monitor the progress of students towards the completion of school/college and University requirements for graduation.

Curriculum Advising helps students identify the various options and curricula they may employ to achieve particular academic and/or career goals.

Academic Deficiency Advising: Students whose grade point averages fall below 2.0 and are placed on academic probation are required to discuss their progress with an academic adviser. Advisers help probationary students consider ways to overcome academic deficiencies. Referrals may be made to other University services where students can find assistance for specific problems or difficulties.

Changes of College and Curriculum: Students wishing to enter the colleges served by the University Advising Center from another undergraduate college within the University, or to change programs within those colleges, do so at the Advising Center. Advisers provide details of program change including changes in prerequisites, and process requests for change.

Pre-Professional Advising: Advisers assist students in planning programs which will fulfill requirements for admission to the various professional programs offered by Wayne State University, including those of the School of Business Administration, the College of Education, the School of Social Work, the College of Nursing, and the Eugene Applebaum College of Pharmacy and Health Sciences.

Health Careers Advising: Students in pre-medical, pre-dental, pre-osteopathic and pre-veterinary medicine curricula are advised on procedures for applying to post-baccalaureate institutions. Letters of recommendation are sent to professional schools as requested by the student.

Early Academic Assessment: Academic progress for students enrolled in 0000-2999-level courses is assessed by faculty at the end of fourth week of classes. If a student’s performance is assessed
below the 'C' level, the student receives an alert notification referring him/her to appropriate campus resources.

**Division of Community Education**

2100 Academic/Administrative Building; 577-4695; Fax: 577-8000  
**Director:** Sandra E. Alford  
**Associate Director:** Mary C. Dickson

**Instructional Support**  
**English:** Julie Mix; **Mathematics:** Sandra Merriweather

**Academic Advisers**  
Dannie Brown, Pamela Dale, Adrienne Elliot-Brown, Dawn Dolly, Audrey Whitfield

**Recruitment Support**  
Daune Elston

The Division of Community Education (DCE) is an alternative educational outreach program. Founded in 1969, this program provides access to degree programs to recent high school graduates and returning adults who have not achieved the minimum university admission requirements. Intensive tutoring is available to all program participants. Federal and state financial assistance is available to those who qualify.

Participants in the Community Education Program are admitted to Wayne State University through the College of Liberal Arts and are eligible to transfer into other colleges or schools within the University after satisfactory completion of twenty-four credits with a 'B' average, or thirty credits with a 'C' average.

**Admission Requirements:** This program has no restrictions on age or previous academic performance. The minimum requirements are: a high school diploma or a General Equivalency Diploma (GED), and proficiency on the DCE English Assessment Test.

Prior to admission, participants are required to take assessment tests to evaluate their academic needs and to assist them in appropriate course selection. These results are also used to plan the tutorial and developmental support programs which may be recommended to enhance the student's academic performance.

**Application:** Students are admitted for the fall term. Admission applications and transcripts should be submitted no later than July 15.

**Program Requirements:** To be eligible to transfer from the Division of Community Education into other schools and colleges within the University, students must complete either twenty-four credits with a 'B' (3.0) average or thirty credits with a 'C' (2.0) average.

**Advising** is a major component of the Division of Community Education program. DCE students are required to utilize the counseling/advising services. Students are assigned academic advisers at the extension centers nearest their residence. The advisers provide assistance with course selections needed to fulfill program and subsequent degree requirements.

**Financial Aid:** Those interested in the Division of Community Education program may apply for federal, state, or University grants using applications available at the extension centers, the DCE administrative office, or the Office of Scholarships and Financial Aid.

The Urban Extension Grant makes funds available to qualified DCE students. Contact the Division of Community Education for additional information: (313-577-4695).

**Division of Student Services**

2100 Academic/Administrative Building,  
5700 Cass Avenue, Detroit, Michigan 48202  
Telephone: 577-4695; Fax: 577-9626

**NON-MATRICULANT ADVISING**  
**Interim Advisor:** Patrick Smith; 313-577-4693

Advising services for nonmatriculant students in the College of Liberal Arts are provided by academic advisers on the main campus, and at the extension centers. Students who do not have matriculated status in the University are especially urged to consult with an adviser before registration. Appointments on campus can be arranged by telephoning the Non-Matriculant Adviser’s Office: 313-577-4693 or any of the off-campus extension centers.

**OFF-CAMPUS COURSE REGISTRATION**

**Records and Registration Services**  
**Interim Supervisor:** Annestine Crawford; 313-577-4671

Registration for off-campus academic courses is held during the regular Registration periods for each semester (see Academic Calendar, page 4). Forms for each registration period are available in person from: the Student Services office (Second floor, Academic/Administrative Building, 5700 Cass Avenue); from all extension centers; and from the Registration Office on the Wayne State campus. They are available by calling: 313-577-4597. For specific registration information, telephone: 313-577-4671.

**Fees:** Fees for credit classes offered by eWayne and Lifelong Learning Programs (see page 49) are the regularly-established fees of Wayne State University, published each semester in the Schedule of Classes; all fees are subject to change at any time without notice by action of the Board of Governors.
ACADEMIC REGULATIONS

Each student, except those in the annual medical program, is required to register at the beginning of each term of attendance according to the procedure and schedule published in the official University Schedule of Classes (available on the web at http://www.classschedule.wayne.edu). Registration must be completed before the student may attend classes. For registration dates and the alphabetic appointment schedule, the student should consult the Schedule of Classes.

Students wishing graduate credit must NOT register under ‘post-bachelor’ status. This is an undergraduate classification in which graduate credit may NOT be earned.

Normal Program Load

A full-time undergraduate student is one who is enrolled for twelve or more credits during a semester. The definition of what constitutes a normal course load will vary depending upon each program. In general, for completion of undergraduate degree requirements in four years, full-time students should average fifteen to sixteen credits each semester during the academic year. Undergraduate students may not elect more than eighteen credits per semester except by written consent of the Dean or adviser. Individual schools and colleges may set credit restrictions below those specified here; for details see their respective sections of this Bulletin.

Auditing Courses

To audit a course, a student must notify Registration and Scheduling in the Office of the Registrar and indicate that he/she wishes to audit the course rather than receive academic credit. Registration to audit a course is subject to the following regulations:

1. Students must pay the tuition assessment for the course, which is the same as if it were taken for academic credit;
2. A student is not permitted to take quizzes and examinations in audited courses;
3. A student may not normally change from audit status after registering for the course. In some cases, exceptions may be permitted during the term with the written recommendation of the instructor and the written approval of the Dean of the college/school in which the student is enrolled. The instructor’s recommendation and Dean’s approval must be included with the student's Drop/Add Form indicating the requested change.

The Graduate School does not encourage students to audit graduate level courses.

Dual Enrollment

Undergraduate Election of a Graduate Course: Highly qualified undergraduate students may, under special circumstances, take a 7000-level course for undergraduate credit only. A written petition initiated by the student’s adviser must be approved by the graduate officer of the school or college, the professor teaching the course, and the Dean of the Graduate School. The petition, with all required signatures, must be turned in at the time of registration.

Graduate School Admission Under the Senior Rule: An undergraduate student in his/her senior year who has a 3.0 or higher upper division g.p.a. and who desires to earn a limited number of graduate credits may receive in his/her final semester a temporary Senior Rule graduate admission for one semester only to a graduate program. Students who desire this status must file an Application for Graduate Admission and be admitted to the Graduate School. A completed Senior Rule/Dual Enrollment Form should be submitted to Student Records in the Office of the Registrar. For further information, see Senior Rule Admission, page 45.

Dual Enrollment: Graduate students may register for undergraduate courses by requesting Dual Enrollment registration status. Courses elected under this status for graduate credit will be recorded on the graduate transcript, and those elected for undergraduate credit will be recorded on an undergraduate transcript. All courses elected under this status will be assessed at the graduate rate. At the time of registration, the student must ensure that the completed Senior Rule/Dual Enrollment Form is on file in Student Records in the Office of the Registrar.

Dual Registration at the University of Michigan: A student enrolled at either Wayne State University or the University of Michigan may elect a course or courses in the other institution if the course fits his/her program but is not available in his/her home institution. The student must have written approval of the department chairperson in his/her major area in the home college and the approval of his/her Dean. The election must also be approved by the department which offers the course. Students desiring to participate in the Wayne State University—University of Michigan dual registration should obtain the necessary forms from Registration and Scheduling and pay the appropriate tuition at their home institution.

Repeating Courses — The mark of ‘R’

Courses Repeated prior to Winter Term 1998: If an undergraduate student repeats a course and completes it with a grade of ‘A,’ ‘B,’ ‘C,’ ‘D,’ or ‘E,’ the following rules will apply in posting the student’s cumulative record:

1. The grade, grade points and credits for an earlier attempt will be eliminated from the student’s grade point average computation.
2. The grade, grade points and credits of only the latest repetition will be included in the student’s grade point average computation.
3. An ‘R’ on the student’s academic record will replace the original grade in the course repeated under this rule. Thus, the indicator ‘R’ will appear for all attempts in a course except the last.

Courses Repeated —Winter Term 1998 to present: If an undergraduate student repeats a course and completes it with a grade of ‘A-minus,’ ‘B-plus,’ ‘B,’ ‘B-minus,’ ‘C-plus,’ ‘C,’ ‘C-minus,’ ‘D-plus,’ ‘D,’ ‘D-minus,’ or ‘E,’ the following rules will apply in posting the student’s cumulative record:

1. The grade, grade points and credits for an earlier attempt will be eliminated from the student’s grade point average computation.
2. The grade, grade points and credits of only the latest retake will be included in the student’s grade point average computation.
3. The original grade in the course repeated under this rule will remain on the student’s academic record. Earlier attempts will be flagged for exclusion in the g.p.a. calculation and the latest attempt will be flagged for inclusion in the g.p.a. calculation.

After registering to repeat a course, a Repeat Form must be filed in Student Records.

After a degree has been granted, no grade computed in that degree may be changed.

If a post-bachelor status student repeats a course originally taken under regular undergraduate status, the repeat will in no way modify the earlier attempt. The second election, however, will be averaged in the grade point base.

School of Business Administration: No course in which a student has received a passing grade or mark may be repeated without the prior written approval of the Graduate Officer of the School of Business Administration.

Eugene Applebaum College of Pharmacy and Health Sciences—Faculty of Health Sciences: No course may be repeated without the prior written consent of the adviser(s) delegated for each professional curriculum.
College of Engineering: Students enrolled in the College of Engineering must have written approval from the College to repeat a course with a replacement of grade in the g.p.a. Otherwise, grades from all attempts will be included in the g.p.a. calculation.

WSU Pipeline
Web: http://pipeline.wayne.edu

WSU Pipeline is a secure gateway to Wayne State University information and electronic services and tools on the World Wide Web. This new Web environment is a one-stop location where Wayne State students, faculty, and staff can access and use tools to meet their day-to-day needs, find WSU information that is relevant to them, and work with communication tools for connecting or interacting with people on or off campus.

The Wayne State community now has many more communication and collaboration tools available through WSU Pipeline, such as Wayne State’s e-mail System, university-wide calendars and to-do lists, and features that enhance group interaction. These tools make the integrated systems that comprise this secure Web environment at WSU more effective, and they enhance the way communities are formed here on campus.

Accessing the Pipeline: All that is needed to access WSU Pipeline at: http://pipeline.wayne.edu is a current Web browser on any computer connected to the Internet and a WSU AccessID (e.g., xy6789) and password. As soon as a student applies for admission or an employee is hired, an AccessID is automatically created. Instructions on how to look up an AccessID and find the initial password needed to activate it are on the following Website: http://support.wayne.edu/accessid

Pipeline Services: The information that a WSU student or employee sees in WSU Pipeline and the services and tools they can access and use through WSU Pipeline are based on their particular role (or roles) at the University. For instance:

(1) Faculty and students have numerous course tools to use in WSU Pipeline and in the Blackboard Learning System, which is accessible through Pipeline. Some of these tools include the availability of a Blackboard Website for every course, easy access to WSU e-mail, and secure chat and threaded discussions for communicating and interacting with each other.

(2) Students can access WSU e-Services to build a course schedule and register, and can check holds, final grades, financial aid status, tuition balances, and more. Students will only see announcements and information in WSU Pipeline that are of interest to students.

(3) Faculty can access administrative e-Services to print class lists and to submit both Early Assessment and final grades. Wayne State faculty members and instructors have a variety of electronic tools available through WSU Pipeline to help them accomplish both academic and administrative tasks more efficiently and effectively.

(4) WSU employees now have administrative e-Services available to view pay information, benefits and deductions, vacation and sick-leave banks, employment records, and so on. In addition, employees only see announcements and information in WSU Pipeline that are relevant to being a Wayne State employee.

Registration
REGISTRATION AND SCHEDULING.
OFFICE OF THE REGISTRAR
Registration is the process of officially enrolling in classes for a particular term. The Schedule of Classes, published by the Office of the Registrar in advance of each term, lists the days, times and locations for registration and explains registration procedures. Students should review the information in the Schedule of Classes, on the web at http://www.classschedule.wayne.edu prior to registering.

A student may not attend any class for which he/she is not officially registered.

POST-BACHELOR STATUS: Students wishing graduate credit are cautioned NOT to register ‘post-bachelor.’ This status allows students holding bachelor’s degrees from accredited institutions to elect only courses open to undergraduate students (numbered below 7000), which may be used to fulfill prerequisite requirements for graduate admission. Credit for courses elected as a post-bachelor student does not count toward graduate credit.

Registering for Classes — On the Web

Complete instructions for registration appear in the Schedule of Classes, on the web at http://www.classschedule.wayne.edu/ Additional information and assistance is available from Registration and Scheduling: 313-577-3541.

1. To register on the Web, the student needs to know his/her WSU AccessID and password. For information and help with the AccessID and password, call the Computing and Information Technology Help Desk at 313-577-4778, or e-mail: helpdesk@wayne.edu Information is also available on the Web at: http://support.wayne.edu

2. Registration may be done on any computer with access to the World Wide Web.

3. The Web address to register is http://pipeline.wayne.edu The student should enter his/her WSU AccessID and password, and hit ‘enter.’ Then, successively click on: School Services > Administrative Services > Student Services & Financial Aid > Registration; and follow the prompts.

Complete instructions for registration appear in the Schedule of Classes and on the website at: http://www.classschedule.wayne.edu. It is highly recommended that students print a copy of their student schedule from WSU Pipeline prior to the beginning of the term. This is the only way students can obtain a printed version of their schedule. Additional information and assistance is available by calling Registration and Scheduling, 313-577-3541.

Drop/Add — Adjusting Your Schedule

Registered students may drop and/or add classes on the date(s) indicated in the Schedule of Classes. Note the following requirements:

1. The regulations pertaining to dropping and adding courses are stated as they pertain to regular courses fifteen weeks or more in duration. These regulations are applied proportionately to courses that are offered for less than fifteen weeks.

2. Students who do not officially drop their courses within the first two weeks of classes are financially obligated to pay for the courses even if they have not attended any class sessions.

3. Students may drop (not add) courses after the deadline to drop by phone or Web, by sending a letter to Registration and Scheduling in the Office of the Registrar or a Fax to 313-993-7758. The effective date of such drops, for tuition cancellation and grading purposes, is determined by the postal cancellation date or Fax date stamp.

4. Students who officially drop courses before the conclusion of the first two weeks of classes (for the Fall and Winter terms) are entitled to 100% tuition cancellation, and the courses do not appear on the students’ academic records.

5. Students who officially drop fifteen-week courses after the second week of classes (for the Fall and Winter terms) are not entitled to any tuition cancellation; however, courses dropped prior to the conclusion of the fourth week of classes do not appear on students’ academic records. After the fourth week of classes, courses dropped are included on students’ academic records with a mark of ‘W,’ Withdrawal.

6. Students are not permitted to add courses after the second week of the term.

7. Students are required to have instructors’ signatures for drops processed after the fourth week of the term.

General Information 39
8. Students are not permitted to drop courses after the final examination period begins.

College of Engineering: Students are not permitted to drop courses after the fifth week of classes without written approval of their adviser. Some departments have more stringent restrictions on dropping of courses.

Credit by Special Examination
Upon the recommendation of the department chairperson and with the written approval of the appropriate college or school office, a student may earn credit in a course in which he/she has not been regularly enrolled in this University, but which is offered by a department, by passing a special examination. Credit by a special examination is restricted as follows:

1. Not more than sixteen credits may be earned in any one subject.
2. Not more than thirty-two credits may be included in the minimum credits required for graduation.
3. Credit will be recorded with grade to indicate the level of performance in the examination but will not be considered in computing grade point average.
4. Credit will not be considered residence credit.
5. To be eligible to earn Credit by Special Examination, a student must have been regularly admitted or have attended with guest status, have enrolled for one semester and have completed at least one course.

Students who intend to transfer to other schools are cautioned that Credit by Special Examination at one institution is infrequently accepted for transfer credit by another institution.

For Special Examination fee, see page 18.

Undergraduate Academic Probation
Effective Fall Term 1988, an undergraduate student whose cumulative grade point average (g.p.a.) falls below 2.00 will be placed on ‘Academic Probation.’ An ‘Academic Probation’ status is placed on the student’s record and the student shall be permitted to register only after consultation with, and approval has been granted by, a designated University adviser. (For information on other types of Holds on records, see page 19.)

A student shall be given two subsequent terms for enrollment on probationary status. At the conclusion of the two terms, a student who has not achieved a cumulative g.p.a. of at least 2.00 shall be excluded from his/her program. A student excluded from the University may not apply for readmission or reinstatement for one calendar year.

Each School and College may establish more stringent Probation, Exclusion, and Appeal policies, and students should consult the appropriate Dean’s Office. The Probation Committee of the University Advising Center is responsible for monitoring the University Probation and Exclusion Guidelines for Students in the Colleges of Liberal Arts, Science, Fine, Performing and Communication Arts, and Urban, Labor, and Metropolitan Affairs. Students must consult with an academic adviser regarding appropriate deadlines for academic hold releases and/or reinstatement procedures.

Obligations of Faculty and Students to the Instructional Process
Since education is a cooperative effort between teacher and student, both parties must fulfill obligations if the integrity and efficacy of the instructional process are to be preserved.

Responsibilities of Faculty Members
1. To contribute to and remain abreast of the latest developments in their fields;
2. To continually pursue teaching excellence;
3. To treat all students with respect and fairness without regard to ancestry, race, religion, political belief, country of origin, sex, sexual preference, age, marital status, or handicap;
4. To encourage differing viewpoints and demonstrate integrity in evaluating their merit;
5. To attend regularly and punctually, adhere to the scheduled class and final examination times, and arrange for notification of absence and coverage of classes;
6. To establish and maintain appropriate office hours;
7. To present, early in the semester, the following course information:
   (a) course objectives and general outline;
   (b) classroom procedures to be followed, expectations concerning class attendance, and proposed dates of major evaluations (including examinations, papers, and other projects);
   (c) grading policy;
   (d) where appropriate, a schedule of class-related activities, including class meetings and laboratory sessions;
   (e) lists of texts and/or other materials needed for the course;
   (f) late enrollment, withdrawal, and other special policies.
8. To provide and adhere, within reasonable limits, to the written syllabus of the course;
9. To know course matter thoroughly and prepare and present the material conscientiously;
10. To be informed of University services and recommend their use to students when advisable;
11. To follow these policies concerning written work and grades:
    (a) grade and return written work promptly;
    (b) submit final grades by the scheduled time;
    (c) retain written materials not returned within the semester (e.g., final examinations, major term papers) for one academic semester in accordance with unit policy and allow students to examine such materials;
12. To implement unit procedures for student evaluation of faculty teaching, with attention to preserving student anonymity;
13. To behave appropriately in dealing with students so as to maintain a scholarly atmosphere.

Responsibilities of Students
1. To inform themselves of and to fulfill all requirements of the University and those of the college and department from which they expect to receive their degree;
2. To fulfill conscientiously all assignments and requirements of their courses;
3. To attend classes regularly and punctually;
4. To maintain a scholarly, courteous demeanor in class;
5. To uphold academic honesty in all activities;
6. To notify the instructor as early as possible if prevented from keeping an appointment or carrying out an assignment;
7. To discuss with the instructor any class-related problem and follow established procedures in the resolution of these problems;
8. To adhere to the instructor’s and general University policies on attendance, withdrawal, or other special procedures.

It is expected that faculty and students will fulfill their obligations to the instructional process. If, however, a complaint does arise, the parties should meet in an effort to resolve the matter. When such a discussion fails to resolve the problem or is inappropriate given the circumstances, the head of the academic unit should be contacted. If this contact fails to satisfy the complaint, the college’s published procedures should be followed. Although the University Ombudsperson
is not a direct part of the appeal process, students and faculty may consult the Ombudsperson at any point during such proceedings.

**Classroom Attendance Policy for Undergraduate Students**

Attendance may form the basis for a portion of a course grade. In such cases, students must be provided with explicit written information concerning that fact no later than the end of the second week after the start of classes. Such information shall be specific with regard to the penalty incurred for each absence and the means, if any, to compensate for the absence. It should be recognized that there may be certain situations where the student may not be permitted to make up the absence(s).

It is recognized that students may be required to miss classes on occasion as a result of their participation in approved University activities. Examples of such activities include formal participation on University sports teams, debate teams, and performing arts groups. These activities are generally directed by a University official, such as a coach, and usually have a set schedule of events.

Students participating in approved University activities should consult with instructors prior to registration, but no later than the end of the second week after the start of classes, to determine the class attendance policy. At this time, the student should provide the instructor with a schedule of planned absences, preferably signed by the University official directing the activity (e.g., Athletic or Program Director or his/her designee), in order to allow the instructor to evaluate and advise the student on the possible impact of the planned absences. In this case, the instructor will consider absences due to participation in approved University activities, as outlined above, to be excused absences, on par with those due to other unavoidable circumstances such as illness. For classes requiring mandatory attendance incompatible with the number of planned absences, students will be advised to register, if possible, during a semester in which they will not be participating in the University activity (for example, during the off-season for a sports team or during the summer).

It is the student’s responsibility to learn the course material. When classes are missed, for whatever reason, it is the student’s obligation to obtain copies of the class materials and students are responsible for all materials covered in the lectures. An excused absence does not excuse the student from completing assigned work, including exams.

This policy shall be applicable to all courses within the University.

**Student Ethics**

*Academic Records*: The submission of fraudulent academic records for admission or transfer of credit by a student may be cause for the student’s dismissal.

*Academic Work*: Academic work submitted by a student for credit is assumed to be of his/her own creation, and if found not to be, will constitute cause for the student’s dismissal.

**Student Rights and Responsibilities**

Upon the recommendation of the Student-Faculty Council, the University (Faculty) Council, the President-Deans Conference and the President, the Board of Governors, in January, 1967, approved a comprehensive statement of Student Rights and Responsibilities for the University. Copies of this document are available to students and faculty in the offices of the deans of each college and the Office of the Vice President for Student Development and Campus Life.

*Law School*: The faculty of the Law School has approved a set of academic regulations, copies of which are available to all students enrolled in the Law School.

**Student Due Process**

A high standard of student conduct plays a major role in creating an environment of excellence, and the Student Due Process Policy is used to maintain these high standards. The policy (1) establishes the expectations that students are accountable for their behavior; (2) describes acceptable student conduct, both academic and non-academic; (3) describes disciplinary policies and procedures; (4) specifies the rights of the student and other parties; (5) specifies prohibited conduct and sanctions to be imposed if such conduct occurs. Examples of prohibited conduct subject to the Student Due Process Policy include, but are not limited to, academic dishonesty, knowingly furnishing false information to the University, disorderly behavior, theft, damage of property, illegal drugs, weapons on campus, false report of emergency, unauthorized entry, violation of criminal law, etc.

The University Judicial Officer, housed in the Office of the Vice President for Student Development and Campus Life, monitors the student disciplinary process and is responsible for coordinating matters involving student discipline; describing the disciplinary procedures; and informing students and other parties of their rights. Copies of the Student Due Process Policy are available from the Office of the Vice President for Student Development and Campus Life, 470 Student Center, or from the Offices of the Deans of each school and college.

**College/School Grade Appeal Procedures**

Students should first seek to settle grade disputes informally with the instructor. Each college and school has established formal grade appeal procedures. These procedures are available from the Dean’s Office of the College or School. In most instances, formal grade appeals must be filed within thirty days of the time the student has or should have received his/her final grade.

**Academic Appeal Procedure**

In matters where a College’s signed final decision is based upon the evaluation of a student’s academic performance, and when review procedures available to him/her within the College have been exhausted, the student may request the Provost to review that decision on the record. A written Request for a Provost Review must be made by the student himself/herself, with a copy to the Dean of the College, postmarked within thirty calendar days of the postmark of the College’s final decision, which is to be sent to the address provided by the student in the College’s review procedures. The Provost’s review of the College’s decision will proceed as soon as practicable after notification by the student of his/her wish to seek review.

The student may also file with the Provost a Request for a Postponement of the effect of the College’s final decision. Such a Request must be postmarked within seven calendar days of the postmark of the College’s final decision, and a copy must be sent to the Dean of the College. Upon receiving a Request for Postponement, the Provost will immediately contact the Dean. Unless the College demonstrates clearly and convincingly that the injury to the College or to third persons that would result from such a postponement would outweigh the injury to the student from denying the postponement, the effect of the decision rendered by the College must be postponed until the date that the Provost issues a decision regarding the underlying Request for Provost Review. The Provost will inform the student and the Dean of her/his decision regarding the Request for Postponement within three school days after receiving the request. Exceptions to this procedure may be granted by the Provost upon a showing of good and sufficient cause.

**Academic Nepotism**

Faculty members are not to place themselves, or allow themselves to be placed, in a situation amounting to ‘academic nepotism,’ i.e., teaching or otherwise directing the credit study or research of a student who is also a close relative. Concomitantly, students are not to take courses from close relatives or engage in research for academic credit under the direction of close relatives. All such credit will be disallowed.
The mark of 'I'—Incomplete

The mark of 'Z'—Audit

The mark of 'Y'—Deferred.

The mark of 'W'—Official Withdrawal. (this mark applies to undergraduate students only)

The mark of 'N'—Not Passed

The student completes the course work as arranged with the instructor or, if the instructor has left the University, with the Chairperson of the department or other instructional unit. The mark of 'I' shall not be changed to a grade of 'E' unless, after receiving the 'I,' the student's subsequent work is of such quality that the overall average for the course is below passing. Work must be completed within one calendar year.

The mark of 'I' is inappropriate if, in the instructor's judgment, it will be necessary for the student to attend subsequent sessions of the class regularly. Should regular attendance become necessary, the student must register for the class for the semester in which attendance is planned. In the event of a second registration for the course, the mark of 'I' for the original election will be considered a Withdrawal ('W'), and the student will be assessed tuition and applicable fees for the second registration.

The mark of 'I' which is not converted to a letter grade within one calendar year from the time it was received will be considered a withdrawal ('W'), unless, prior to the end of that year, the student requests, and the instructor agrees to certify in writing to Student Records that an additional year is needed for the removal of the Incomplete. The mark of 'I' cannot be extended beyond two calendar years.

The mark of 'R'—Repeated: See page 38 for explanation of this mark (this mark applies to undergraduate students only).

The mark of 'W'—Official Withdrawal, is given when a student reports the withdrawal to Registration and Scheduling in accordance with University policy. See Drop/Add, above, page 39.

The mark of 'X'—No grade reported, is a non-punitive mark used when there has been insufficient work submitted and there is no basis on which to assign a grade.

The mark of 'Y'—Deferred, is given when the student is up-to-date in the work of certain designated courses pre-planned to continue beyond the term (i.e., essay, thesis, dissertation, and certain courses in sequence).

The mark of 'Z'—Audit, is given when the student has formally registered for audit. To register, the student's registration must be processed in person through the department offering the class, or through Registration and Scheduling. Students must complete the Registration Schedule Authorization Form and secure department approval.

Passed — Not Passed Program

The University has a program whereby undergraduate students may elect to take courses in which they will be marked as Passed (P') or Not Passed (N') in place of a letter grade. The following regulations apply:

1. The student may elect one 'P'-'N' course per semester with the consent of an adviser, but he/she may not elect more than six courses in all.

2. After classes have begun, a student may not change from Passed/Not Passed to a letter grade election or vice versa.

3. Courses taken for 'P'-'N' may be used to satisfy competency requirements; however, no course taken on this basis may be used to fulfill specific group or major requirements.

4. Credits for a 'P'-'N' course may be used to fulfill graduation requirements but will not count in the grade point average. In the event the student enrolls in more than six 'P'-'N' courses, those beyond the permissible maximum will be designated on the permanent record as not applicable toward graduation.

School of Business Administration: Undergraduate students in the School of Business Administration may not take courses offered by the School of Business Administration on a passed / not passed basis.
Change of Grade and Mark
Once recorded in the Office of the Registrar, grades/marks will be changed only if an official Change of Grade form, properly completed and signed by the instructor, is submitted to the school or college Grades Coordinator, and is received by Student Records within three semesters (one calendar year) after the end of the term for which the relevant course was originally graded/marked.

Credits
A credit (credit hour) is defined as one class hour per week or its approved equivalent requiring a minimum of two hours of preparation per week carried through a semester. A credit in other modes of instruction should be made as consistent as possible with the above definition.

Laboratory: A three-hour laboratory period is normally regarded as the equivalent of one class hour.

Class Ranking
Ranks are determined according to the number of degree credits which the student has satisfactorily completed. The classifications are:

*Freshman*: 0 to 28.99 credits, inclusive
*Sophomore*: 29 to 55.99 credits, inclusive
*Junior*: 56 to 87.99 credits, inclusive
*Senior*: 88 credits or above

Grade Point Average
The grade point average (g.p.a.) is the numerical index of the student's scholastic average. Points are assigned to each letter grade (see University Grading System, above) for each hour of credit. To compute your grade point average, multiply the grade points assigned to each course grade by the number of credit hours for each course; add the results and divide by the total number of credit hours. For example, a grade of 'A' in a class carrying 3 credits would be assigned 4.0 grade points. A grade of 'C' in a class carrying 4 credits would be assigned 2 grade points (3 x 2). In this example, the grade point average is: .85 g.p.a.

Credit for special examinations, transfer credit, and courses in which a mark of 'I,' 'P,' 'W' or 'X' or a grade of 'S,' 'U,' 'M,' 'F,' or 'N' has been earned are excluded from grade point average computation.

At the undergraduate level, courses repeated are computed in the grade point average according to the procedure given on page 38 on ‘Repeating Courses.’

Law School: This grade point system does not apply to Law School students.

Responsible Attendance and Performance
Students must show diligence and are normally expected to complete the courses they elect. Irresponsible attendance is wasteful of both student and University resources. Those students who consistently receive excessive marks of 'I' (incomplete) and 'W' (Withdrawal) may be refused the privilege of further registration by the dean or the dean's designee of their school or college. Students experiencing attendance difficulties should seek counseling from appropriate college or University offices.

Transcript Request Policy
Official transcripts bear the seal of the University and the signature of the Registrar. They are sent directly to the receiving party. Students and former students are entitled to ten (10) Official Transcripts each calendar year without charge. A $5.00 fee is assessed for each additional transcript. Emergency transcripts, required within twenty-four hours, are provided for a fee of $20.00 per request.

A transcript may be requested in person or by mail. The University will not honor telephone requests for transcripts. Requests by mail should be addressed to: Student Records, Attn: Transcripts, 1 West, Helen Newberry Joy Student Services Center, Wayne State University, Detroit MI 48202. To ensure prompt attention, the student should include his/her name (including name while in attendance, if different), student identification number, social security number, date of birth, last term of attendance, his/her authorizing signature, and the name and address to which the transcript is to be sent.

Transcripts are not issued to anyone outside the University without the written permission of the student. Requests for official transcripts will not be honored if the student or former student has an outstanding financial obligation to the University.

Release of Student Records
The University recognizes admission and academic records of students as being privileged and has a policy designed to ensure that this information is not improperly divulged without the consent of the student. The University is subject to the Family Education Rights and Privacy Act and has promulgated regulations pursuant thereto. Copies of the regulations and a list of student records maintained by the University are available for inspection in the Office of the Registrar. The University reserves the right to provide anonymous academic information to other schools and colleges when it is to be used for curriculum evaluation purposes.

Student Directory Information
Effective Winter Term 2000, Wayne State University policy permits the release of certain Student Directory information. The specific items are: name, address, telephone number, age (or date of birth), major, level, degrees received, previous institutions attended, honors, awards, e-mail addresses, participation in sports or student activities, and height and weight for members of athletic teams.

Unless a student informs the Office of the Registrar that he or she does not want this information released, it will be available to third parties on request. In addition, the student’s name, WSU e-mail address, college/school, and major will be visible in the University’s Electronic Directory on the Internet. Students who do not want this information released must formally request that the University not release it, by completing the Release of Directory Information form, available from the Office of the Registrar and on the Office website.

Michigan’s Freedom of Information Act
The Freedom of Information Act (PA 242) provides that a member of the public, in accordance with certain guidelines, has a right to inspect and receive copies of public records maintained by the University. A public record is broadly defined and includes written documents, pictures, recordings, punch cards, magnetic cards, etc., which are maintained by the University in the course of official responsibilities. However, certain records are exempt from disclosure.

The Media Relations Office, 3222 Faculty/Administration Building, is designated as the Office responsible for accepting requests for public records, and the Director of that office is the University officer in charge of providing this service. Under the statute, a fee can be charged for records released and is based on the cost of labor involved in the search, examination and duplication of records, as well as the mailing costs.

Application for Degree or Certificate
Each candidate for a degree or certificate must file an Application for Degree in Student Records, 1 West, Helen Newberry Joy Student Services Center, not later than the first day of classes for the semester in which the student expects to complete the requirements for the degree or certificate; consult the Academic Calendar on page 4 of General Information 43.
this bulletin. If an application for a degree was filed for a previous commencement period in which the student did not graduate, a new application is required. Applications for graduation must be accompanied by a $15.00 (one time only) graduation fee.

Commencement
Information concerning commencement announcements, caps and gowns, invitations, tickets, time and place, assembling, and other relevant items will be mailed to the graduates by the Commencement Office prior to the event. Candidates for advanced degrees are requested and expected to attend the commencement at which the University confers upon them the honor of the degree earned.

Student ID (WSU OneCard)
The WSU OneCard is a photo identification card that also implements student use of many campus facilities. It serves as a library card, parking card, door access card, and debit card. The debit card feature of OneCard provides a cashless environment for cardholders throughout the campus. When the card is activated and money deposited on it by the cardholder, the OneCard allows access to parking facilities and may also be used for purchases on campus including photocopies, printing, food at the Student Center and other food venues, vending machine items, Barnes & Noble bookstore items, testing services, and Fitness Center usage.

Students may obtain the OneCard from Room 50 Student Center (lower level), 8:30 a.m. to 6:00 p.m., Monday through Thursday; 8:30 a.m., Friday; telephone 577-2273.

Funds may be added to the OneCard via the Internet (http://www.busop.wayne.edu/OneCard.htm) with a credit card or at one of the Cash System Value Terminals located in the following University buildings: Adamany Undergraduate Library, Purdy/Kresge Library, Law Library, Science and Engineering Library, Shiffman Medical Library, State Hall, Old Main, Student Center, Scott Hall, Applebaum College of Pharmacy and Health Sciences, Matthaei Physical Education Center, Parking Structures 1, 2, 5, and 6, University Tower Apartments, and Oakland Center.

GRADUATE SCHOOL
ADMISSION
Office of University Admissions
Welcome Center, 42 W. Warren Avenue, PO Box 2759, Detroit MI 48202
Telephone: 313-577-3577; Fax: 313-577-3376
Web: http://www.admissions.wayne.edu

Following are the rules and regulations governing admission to the Wayne State University Graduate School. For information on all degrees and programs, consult the Wayne State University Graduate Bulletin.

Regular Graduate Admission
All graduate admission procedures and regulations are subject to revision by the University Graduate Council at any time.

To be considered for graduate admission, an applicant must hold or be completing an earned baccalaureate degree (or the equivalent) from a college or university of recognized standing and have adequate preparation with discernible ability to pursue graduate studies in the major field elected. These criteria are subject to standards set by the individual colleges and schools, which reserve the right to revise or amend their entrance requirements beyond the minimal requirements of the University.

A completed Application for Graduate Admission form, the graduate application fee, and an official transcript from each college or university attended are required before any student can be considered for admission to graduate study. A transcript is considered official only if it is sent directly from the institution where the work was completed and bears an official seal. The applicant is also responsible for arranging to take any examinations that may be specified by the Office of University Admissions, the college or school, or the individual department.

Several academic areas of the University require an additional departmental application. Students are advised to contact the department to which they are applying and request full particulars on admission procedures.

In most departments (see departmental sections for variants), a regular admission may be authorized for the master’s degree applicant upon an adviser’s recommendation, if the applicant’s grade point average is 2.6 (‘C’=2) or above for the upper division (approximately the last 60 semester credits) of his/her undergraduate course work and if he/she holds a degree from a regionally accredited institution.

Doctoral applicants must present higher entrance qualifications than those required of master’s degree applicants. A doctoral applicant is required to have an undergraduate grade point average of 3.0 (‘B’=3) or above for the upper division of the undergraduate course work and must have completed an undergraduate major or have done substantial specialized work in his/her proposed doctoral major field. Certain departments require the completion of a master’s degree with superior scholarship before considering acceptance of a student as a doctoral applicant. Students presenting less than a 3.0 undergraduate grade point average must pursue a master’s program prior to consideration for admission to a doctoral program.

The individual colleges reserve the right to refuse a non-resident admission if such admission prevents registration of a qualified Michigan resident. This ruling may not be invoked to secure admission to a Michigan resident if his/her grade point average entitles him/her to qualified status only.

Qualified Graduate Admission
In most departments (see below for variants), qualified admission to a master’s or certificate program may be authorized if an applicant’s
grade point average is between 2.25 and 2.6 or if his/her degree is from a non-accredited institution, provided the major departmental adviser and the Graduate Officer of the appropriate school or college have reviewed the applicant’s academic experience, extra-scholastic qualifications and reasons for pursuing graduate study and have recommended, in writing, his/her admission to the Graduate School.

Applications from students who have completed substantial coursework at, and/or graduated from, institutions which were not accredited by one of the six regional U. S. accrediting institutions (MSA/CHE, NEASC, NCA, NASC, SACSCS, or WASC-Sr.) at the time studies were undertaken, will have special review. If requested, the applicant will be required to furnish documentation of the nature and level of the credit obtained, the bases on which the credit was awarded, institutional operating practices, library holdings, physical facilities, faculty qualifications, and any other matters that may be relevant to a determination of credit. The director for graduate admissions is authorized to deny admissions to any applicant whose previous education does not conform to Graduate School standards.

All baccalaureate graduates of unaccredited institutions must present a 3.00 (‘B’) or better upper-division grade point average to be considered for graduate admission. If admitted, all such students will be assigned a qualified status unless exempted by the Office of University Admissions. Coursework completed after the baccalaureate degree which is presented as the qualifying basis for graduate admission cannot be applied toward a graduate degree at Wayne State University.

Upon recommendation of an adviser and the Graduate Officer of the appropriate college or school, qualified status may be granted to an applicant whose grade point average is below 2.25, if, since the time his/her baccalaureate degree was conferred, he/she has shown substantial evidence of academic or extra-scholastic qualifications of such merit as to warrant special consideration.

**Graduate Admission Application Dates**

The Office of University Admissions, Welcome Center, 42 W. Warren (313-577-3577), will make every effort to process applications in time for the semester of the student’s choice. However, only complete applications received by the last recommended dates shown below are ensured a decision before the semester starts. Unless an application and all supporting materials are received by the date indicated, there may not be adequate time to complete consideration for the desired term.

**Fall Term** — Classes begin early September: Apply by July 1
**Winter Term** — Classes begin early January: Apply by November 1
**Spring Term** — Classes begin early May: Apply by March 15

For international students, the application form and all transcripts and documents must be on file in the Office of University Admissions at least four months before the start of the term in which the applicant plans to begin graduate studies.

Several colleges and departments have earlier deadlines. Students should consult the school/college and department sections of this bulletin, or the Office of University Admissions for complete information.

**GRADUATE NON-DEGREE ADMISSION**

NOTE: Applicants are advised that there exists an undergraduate admission classification called ‘Post-Bachelor’. Students wishing graduate credit are cautioned not to enroll as a Post-Bachelor student since credits earned while holding that classification do not carry, and may not be converted to, graduate credit.

A student who is entering the Graduate School with objectives not related to the pursuit of a graduate degree — to earn credits for a Continuing Teaching Certificate, or to elect a limited number of courses for personal reasons — may request admission on a non-degree basis. One must file an Application for Graduate Admission but does not record a major. In most instances, a non-degree student may register for any courses for which he/she has the necessary preparation.

The applicant for a non-degree graduate classification is cautioned that only one semester of full-time graduate study, or part-time registrations not to exceed nine credits, is normally permitted in this classification. Beyond these limits, registration as a non-degree student requires the approval of the Graduate Officer of the student’s college. Not more than nine credits, subject to the approval of the Graduate Officer, may be applied at a later date toward the resident and credit requirements for either the master’s or Ph.D. degree. For the Ed.D. degree, credit earned beyond the nine credit limitation will be reviewed by the appropriate Division and the Education Graduate Officer for possible application toward the degree.

No student should select or continue in any of the graduate non-degree admission classifications if he/she has any interest in earning a degree. There is no assurance that credits earned while holding a non-degree classification will be acceptable in a degree program, or that prerequisites may not have to be specified if the student later becomes a degree applicant. If the student decides to seek admission to a graduate degree program, he/she should apply to the appropriate College Graduate Officer for a ‘Change of Status’ before completing nine credits. Depending on the applicant’s highest previous degree, he/she may apply for admission to one of the following:

**Graduate Non-Degree Admission classifications:**

1. **PRE-MASTER’S:** A student with an acceptable grade point average and an earned bachelor’s degree from an accredited institution may apply for this rank. Applicants must submit an Application for Graduate Admission and request that official transcripts from all previously attended colleges and schools be forwarded directly to the Office of University Admissions.

2. **POST-MASTER’S:** This rank is reserved for those students who evidence an earned master’s degree at the time of application. Students holding Wayne State master’s degrees should contact the Graduate Officer of the college they wish to enter. Those with master’s degrees from other institutions must submit an Application for Graduate Admission and transcripts.

3. **POST-DOCTORAL:** This rank is reserved for those students who evidence an earned doctoral degree at the time of application.

**Graduate Guest Admission:** Graduate students from other accredited institutions may be admitted to elect a limited number of credits at Wayne State University. Interested students are directed to contact the Office of University Admissions to obtain a Graduate Guest Application, which must be signed by the graduate dean of their home institution before it can be accepted for consideration. A guest admission is valid for only one semester and must be renewed with each subsequent registration. Admission as a Graduate Guest student does not constitute permission to register as a degree applicant.

**Michigan Intercollegiate Graduate Studies Program (MIGS):** The Michigan Intercollegiate Graduate Studies (MIGS) Program enables graduate students of Michigan public institutions offering graduate degree programs to take advantage of educational opportunities at other Michigan public institutions offering graduate degrees. Any graduate student in good standing in a master’s, specialist, or doctoral program at a member institution is eligible to participate with approval of the appropriate academic unit. Students on a MIGS enrollment pay tuition and other fees at the host institution. All credits earned under a MIGS enrollment are accepted by a student’s home institution as if offered by that institution. This type of enrollment is limited to one term for master’s or specialist degree students, or two terms for doctoral degree students. Students interested in this program should contact the Office of University Admissions for further information and instructions.

**Senior Rule Admission:** In their last undergraduate semester, Wayne State students with a 3.0 (or above) upper division grade point average have the option of taking a limited number of graduate credits to be used toward a master’s degree. Graduate credit is
awarded only for those courses taken in excess of baccalaureate degree requirements.

Undergraduate and graduate courses combined may not exceed sixteen credits for the final semester of baccalaureate degree work. A Senior Rule student must register for at least one credit that is required for the undergraduate degree in order to be eligible for this status. Students who have completed all required registrations for the baccalaureate may not obtain Senior Rule status.

Students who qualify and are recommended by the department will be given a temporary admission to the Graduate School for one semester. A final transcript showing the bachelor’s degree must be submitted to the Office of University Admissions before regular status as a graduate student can be authorized.

As a courtesy, the University permits a student admitted to Senior Rule status to pay undergraduate fees for those graduate courses elected toward his/her master’s degree. Students admitted to this status are advised to elect 5000-6999 courses in their Senior Rule semester that carry both undergraduate and graduate credit. Completion of the Application for Graduate Admission form is required. Senior Rule status may be granted for one semester only. The individual school or college makes the authorization. Students are directed to consult their advisers and the Office of University Admissions. Application deadlines for Senior Rule admission are the same as for regular graduate admission.

_Eugene Applebaum College of Pharmacy and Health Sciences_ — Undergraduate pharmacy students may register for one of their last two semesters of their fifth year under Senior Rule status.

_College of Nursing_ — Applicants must submit a graduate College of Nursing Application to the Office of Student Services, 225 Cohn, Wayne State University, Detroit, Michigan 48202.

**Permit to Register:** Admission may be granted on a one-term-only basis to applicants with incomplete applications for graduate admission.

Eligibility for a graduate Permit to Register requires an earned baccalaureate from an accredited institution. Evidence of completion of the degree (e.g., diploma, transcript) must be submitted along with the Permit application and the processing fee. Approval to enroll on a Permit is valid for only one semester. Registration beyond the initial semester requires the submission of a regular graduate admission application and official transcripts. Admission as a graduate Permit-to-Register student does not obligate Wayne State University to accept the applicant in the future for a graduate degree, nor is there any assurance that credit earned in this status will be accepted toward a graduate degree.

This option is not available in all University schools and colleges. Applicants are encouraged to discuss admission options with the staff of the Office of University Admissions.

**Post-Bachelor Admission:** Holders of bachelor’s degrees from accredited institutions who wish to elect only courses open to undergraduate students (numbered below 7000) are advised to apply for post-bachelor status. Courses elected while in post-bachelor status will not count toward graduate credit but may be used to fulfill prerequisite requirements for graduate admission. Please check with the Office of University Admissions or Registrar’s Office for other regulations regarding this status.

‘AGRADE’ — Accelerated Graduate Enrollment

Some departments or programs in the Colleges of Engineering, Liberal Arts, Nursing, and Science permit academically superior majors to petition for admission into the College’s ‘AGRADE’ program. ‘AGRADE’ procedures enable qualified seniors in these colleges to enroll simultaneously in the undergraduate and graduate programs of the College and apply a maximum of fifteen credits towards both a bachelor’s and master’s degree in the major field. Students electing ‘AGRADE’ programs may expect to complete the bachelor’s and master’s degrees in five years of full-time study.

An ‘AGRADE’ applicant may petition the Graduate Committee of the major department for acceptance into the program no earlier than the semester in which ninety credits are completed. Applicants must have an overall grade point average at the ‘Cum Laude’ level (approximately 3.4) and not less than a 3.6 grade point average in the major courses already completed. If the student’s petition is accepted, the student’s faculty adviser shall develop a graduate Plan of Work, specifying the ‘AGRADE’ courses to be included in subsequent semesters.

For more details about the ‘AGRADE’ program, contact the chairperson of the major department, or the Graduate Office of the College.

**International Graduate Students**

Students from other countries must contact the Office of University Admissions, or their prospective department, for appropriate application materials and deadline dates.

To be considered for graduate admission, applicants must have completed an appropriate university-level program comparable in subject matter and credits to a program for which a bachelor's degree is awarded at Wayne State University.

The fact that a degree in another country may have a similar name to a degree offered in the United States does not mean the two degrees require similar lengths and content of study or that they should be accepted as equivalents. _All graduate applicants must_ (1) present an excellent scholastic record; (2) have made financial arrangements which allow for approximately $23,000 per calendar year (for the 2003-2004 academic year) for minimum tuition, supplies and living expenses; and (3) have a sufficient proficiency in English. See the following section on Graduate Admission English Proficiency Requirement.

FINANCIAL AID: University sponsored financial assistance for international students is severely limited and unconfirmed awards should not be included in financial projections.

**English Proficiency Requirement**

Graduate applicants must demonstrate proficiency in English to obtain full admission to the University. To fulfill this requirement an applicant must satisfy one of the following criteria:

1. Complete baccalaureate degree requirements at a regionally accredited U.S. institution or at an institution where English is the native language.
2. Present an acceptable score on the Michigan English Language Assessment Battery (MELAB).
3. Present an acceptable score on the Test of English as a Foreign Language (TOEFL).

Some units may elect to grant qualified graduate admission to academically-talented International Students whose TOEFL scores fall slightly below the minimum score. Interested students should contact the chairperson or director of their prospective program, to determine whether their program offers such qualified admission. For further information on the English proficiency policy, please contact the Office of University Admissions, The Welcome Center, 42 West Warren (313-577-3577).
University Centers and Institutes

These University Centers and Institutes have programs pertaining to undergraduate study. A list of additional Centers and Institutes follows, below.

Center for Chicano-Boricua Studies
3326 Faculty/Administration Building; 313 577-4378; Fax: 313 993-4073
Interim Director: Katalina Berdy, M.A.
Web: http://www.cbs.wayne.edu
e-mail: katalina.berdy@wayne.edu

Purpose: The mission of the Center for Chicano-Boricua Studies (CBS) is to transform the university by providing equitable access to a quality university education to Latina/o students in the Detroit metropolitan area, and by enhancing the environment of diversity on the campus. The Center accomplishes its mission through a four-part program in (1) student services; (2) research on Latina/o and Latin American issues; (3) internal university advocacy on Latina/o perspectives; and (4) outreach to the Latina/o and larger metropolitan communities.

Teaching: The Center is the home or cross-listed department for a number of courses on Latina/o and Latin American history and culture. These include the histories of Mexico, Puerto Rico, Cuba, and of Latina/os in the United States along with Chicana/o and Puerto Rican literatures and cultures. The Center has a co-major that is the equivalent of a Latina/o/Latin American Studies co-major. The Center offers a two-semester sequence in Student Academic Self-Empowerment.

Research: The research specializations of the faculty associated with the Center are Mexican history, Caribbean history, South American literature, United States Latina/o history and student learning strategies in higher education.

Service: Chicano-Boricua Studies is a comprehensive student services center. CBS recruits Latina/o students from the metropolitan area into a two-year Academic Self-Empowerment Program; they are advised from entry though graduation. CBS administers an annual scholarship fund of $150,000. The Center also serves as a source for cultural programming, networking, and information for the university and the metropolitan community.

Developmental Disabilities Institute
Leonard Simons Building, Suite 268, 4809 Woodward, Detroit, MI 48202; 313-577-2654
Director: Barbara LeRoy, Ph.D.
e-mail: B_Le_Roy@wayne.edu
Web: http://www.wayne.edu/DDI

The mission of the Developmental Disabilities Institute is to contribute to the development of inclusive communities and quality of life for people with disabilities and their families through a culturally-sensitive statewide program of interdisciplinary education, community support and services, research and dissemination.

In the Institute’s education program, research findings and state-of-the-art practices are used to educate and to produce sensitive, competent professionals and direct support professionals needed to advance the field. Educational activities include interdisciplinary seminars, courses for degree or certificate credit, guest lectures, and one-to-one educational support or advisement.

The Institute’s research, evaluation and dissemination program coordinate efforts of all Institute projects to evaluate results, engage in original research and disseminate information and products developed through project work. The research and evaluation area also provides evaluation services to outside organizations and agencies.

The Institute’s community support program provides technical assistance and training to disability agencies and organizations. The program works closely with partner agencies in pre-implementation evaluation, planning, provision of training and technical assistance, follow-up evaluation and revision of approaches.

Students have the opportunity to complete field placements, internships and work as student assistants on projects in the Institute’s education, research and service programs.

Labor Studies Center
3178 Faculty/Administration Building; 313-577-2191
Director: Hal Stack, Ph.D.
e-mail: h.stack@wayne.edu
Web: http://www.laborstudies.wayne.edu

The Labor Studies Center is a comprehensive labor education and research center committed to strengthening the capacity of organized labor to represent the needs and interests of workers, while at the same time strengthening the University’s interdisciplinary research and teaching on labor and labor relations issues. Undergraduates can receive a bachelor’s degree in labor studies. An internship program is also available.

Merrill-Palmer Institute for Child and Family Development
Freer House, 71 E. Ferry Avenue; 313-872-1790
Consulting Director: Geraldine Brookins, Ph.D.
e-mail: gb.brookins@wayne.edu
Web: http://www.mpi.wayne.edu

The Merrill-Palmer Institute (MPI) is a multidisciplinary research institute committed to enhancing the development of children. It conducts basic and applied research on childhood development, facilitates research on children through the University and beyond, prepares students and researchers to contribute to the understanding of the development of children; and develops and evaluates programs and policies that contribute to children’s well-being.

The Institute does not offer undergraduate courses. However, undergraduates can take a directed study with MPI faculty, and conduct Honors theses with MPI faculty. In addition, undergraduates can work as student assistants in the MPI Child Development Laboratory. From time to time there are opportunities for undergraduates to participate in research projects conducted by the Institute. The Institute typically employs two or three student assistants every year to assist with routine work of the Merrill-Palmer staff.

Center for Peace and Conflict Studies
2320 Faculty/Administration Bldg.; 313-577-3453
Fax: 313-577-8269
Director: Frederic Pearson, Ph.D.
e-mail: frederic.pearson@wayne.edu
Web: http://www.pcs.wayne.edu

The Center for Peace and Conflict Studies presents programs and courses on the management and resolution of conflict in all contexts, from the local community to the international system. With the advice of an interdisciplinary executive committee, projects are developed that contribute to the exploration of the social and political controversies of our time. The Center serves as the base for an undergraduate co-major in peace and conflict studies and also involves students in active research. Following such experiences, students may go on to a number of related careers, or to the Master of Arts in Dispute Resolution in the College of Urban, Labor, and Metropolitan Affairs.

Detroit Council for World Affairs: The Council is a community outreach of the Center for Peace and Conflict Studies and presents activities for youth and adults on crucial world issues. The Council
serves as a link between the University and the greater Detroit community, and brings prominent speakers to the campus. Members of the public and students may join the Council to participate in its activities. Students also can be active in the Peace and Conflict Student Forum, which has become the WSU chapter of Amnesty International.

State Policy Center
3198 Faculty/Administration Building; 313-577-3075

Director: Peter Eisinger, Ph.D.
Web: http://www.culma.wayne.edu

The State Policy Center – a nonpartisan entity for addressing statewide and urban issues – is part of Wayne State University’s College of Urban, Labor and Metropolitan Affairs. It represents Wayne State’s ongoing commitment to public service, and is a specific response to the legislative initiative advanced in the Fiscal Year 1997-98 Budget for Higher Education, which called upon Michigan’s major research universities to make a major commitment to assist state government in the broad development of public policy.

The Center’s mission is to serve Michigan’s citizens and state officials in the process of public policy analysis and development and to make academic resources more widely available to the Michigan Legislature, its staff, and all of state government. The State Policy Center offers summer internship opportunities to junior and senior level undergraduates. Internships are available in various public policy fields with state government and related agencies located in the State capital, Lansing, Michigan.

Center for Urban Studies
3040 Faculty/Administration Building; 313-577-2208
Fax: 313-577-1274

Interim Director: Robin Boyle, Ph.D.
e-mail: CUSInfo@wayne.edu
Web: http://www.cus.wayne.edu

The mission of Wayne State University’s Center for Urban Studies is to improve understanding of and provide innovative responses to urban challenges and opportunities. Committed to serving Detroit and its metropolitan area, the Center is part of the College of Urban, Labor and Metropolitan Affairs and exemplifies Wayne State University’s urban research and service mission. The Center pursues its mission by conducting and disseminating research, developing policies and programs, and providing training, capacity-building, and technical assistance.

The Center participates in defining and influencing local, regional, state and national urban policy. It engages community, government, institutions, and policymakers in collaboration with university faculty and resources to transform knowledge into action.

Through its Urban Linkage Program, the Center offers paid internship opportunities to Wayne State juniors, seniors and graduate students. These internships are available with metropolitan area municipalities, community agencies and city of Detroit departments as a way to provide professional experience in public and community service agencies to Wayne State students.

Through the Michigan Metropolitan Information Center, the resources of the State Data Center network are available to Wayne State students. This makes all U.S. Census Bureau data available at low or no cost. The Center for Urban Studies’ web site also contains a variety of state and local data at: http://www.cus.wayne.edu. From time to time, the center also has student assistant opportunities available to undergraduates.

The Center has continued to add to its website, most recently adding a new research tools section that will allow students to retrieve demographic and other statistical data and work with interactive maps. Detroit and Southeast Michigan are the focus of this information.

Other WSU Centers and Institutes
Other Wayne State University Centers and Institutes that may provide opportunities for undergraduates:

Addiction Research Institute
2761 E. Jefferson; 313 993-3406
Web: http://www.med.wayne.edu/communitymedicine/ari.htm

Bioengineering Center
818 W. Hancock; 313-577-1347
e-mail: king@rb.eng.wayne.edu
Web: http://ttb.eng.wayne.edu/

Center for Automotive Research
2121 Engineering; 313-577-3887
e-mail: henein@eng.wayne.edu
Web: http://www.eng.wayne.edu/~coe/main.cfm?

Center for Health Research
319 Cohn Bldg.; 313-577-4135
e-mail: m.nies@wayne.edu
Web: http://www.nursing.wayne.edu/html/center2.htm

Center for Healthcare Effectiveness Research
121 Shiffman Library; 313-577-5189
e-mail: mmassana@med.wayne.edu
Web: http://www.med.wayne.edu/cher/

Center for International Business Studies
307 Prentis Bldg.; 313-577-4842
e-mail: Attila.yaprak@wayne.edu
Web: http://www.ccmg.biosci.wayne.edu/

Center for Molecular Medicine and Genetics
540 E. Canfield; 313-577-5326
e-mail: lgrossman@wayne.edu
Web: http://www.cmmg.biosci.wayne.edu/

Center for the Study of Arts and Public Policy
3347 Old Main; 313-577-5200
e-mail: d_magidson@wayne.edu
Web: http://www.capp.wsu.org/

Cohn-Haddow Center for Judaic Studies
442 Manoogian Hall; 313-577-2679
e-mail: aa2690@wayne.edu
Web: http://www.judaicstudies.wayne.edu/

Morris Hood, Jr. Comprehensive Diabetes Center
9374 Scott Hall; 313-577-1150
e-mail: asima@med.wayne.edu
Contact: Anders Sima, M.D.

Douglas Fraser Center for Workplace Issues
255 Walter Reuther Library; 313-577-2100
e-mail: wcooke@wayne.edu
Web: http://www.culma.wayne.edu/fraser.html

Humanities Center
2147 Old Main; 313-577-5471
e-mail: Walter.Edwards@wayne.edu
Web: http://www.research.wayne.edu/hum

Director: Walter Edwards, Ph.D.
eWAYNE and LIFELONG LEARNING PROGRAMS

5700 Cass Ave., Detroit MI 48202
Web: http://ewayne.wayne.edu

eWayne and Lifelong Learning Programs represents the new direction of Wayne State University in meeting learning needs — at extension sites, online, or in the community — in both credit and non-credit offerings.

eWayne and Lifelong Learning Programs is principally responsible for outreach programs and extension courses of Wayne State University. eWayne and Lifelong Learning Programs administers academic off-campus course offerings and programs for most schools and colleges of the University, for undergraduate and graduate credit; the University Summer Session; and the partnership degree program at the University Center at Macomb.

The division operates five instructional centers in the Detroit metropolitan area as well as in other selected locations in Michigan, and delivers instructional programs through television broadcasting, interactive video, and online. Through these outreach efforts, WSU is able to serve and meet the educational needs of a diverse student audience: working adults who are unable to pursue traditional on-campus programs of study; persons who desire courses of instruction at or near their place of employment; and others who are simply taking courses to enrich their educational background or improve their technical skills. eWayne and Lifelong Learning Programs also offers a variety of noncredit career development and enrichment courses, often in conjunction with University schools or colleges.

The Visitor Program allows students who are not registered for credit to enroll in selected University courses on a noncredit basis at greatly reduced fees.

Instructional Centers

eWayne and Lifelong Learning Programs maintains comprehensive instructional centers at convenient locations throughout the Detroit metropolitan area:

OAKLAND CENTER: 33737 W. Twelve Mile Road, Farmington Hills, MI 48331; Telephone: 248-553-3545; 313-577-3592; Fax: 248-553-7733

UNIVERSITY CENTER AT MACOMB: 44575 Garfield, Clinton Township, MI 48038; Telephone: (810) 263-6700; Fax: 810-263-6120

WAYNE COUNTY CENTER: 7800 W. Outer Drive, Detroit MI 48235; Telephone: 313-577-0613; Fax: 313-864-0627


Academic Regulations

For complete information regarding academic rules and regulations of the University, students should consult the General Information section of this bulletin, beginning on page 5.

Credit Registration: Registration for off-campus academic courses is held during the regular Registration periods for each semester (see Academic Calendar, page 4). Forms and instructions for each registration period are available in person from all extension centers; on Pipeline; and from the Registration Office on the main Wayne University campus.
State campus. They are available by calling: 313-577-4597. For specific registration information, telephone: 313-577-4671.

Fees for credit classes are the regularly established fees of Wayne State University which are published each semester in the University Schedule of Classes. All fees are subject to change at any time without notice by action of the Board of Governors of the University.

Admission Requirements
Most credit courses offered through eWayne and Lifelong Learning Programs and Summer Sessions are open to all students who are qualified by virtue of meeting the prerequisites for individual courses or, in cases where there are no prerequisites, on the basis of their own assessment of their aptitudes. These criteria apply regardless of whether or not the student has been formally matriculated at the University. Those individuals who have been formally admitted to Wayne State University for a degree or certificate program, or post-baccalaureate study, and who are in good academic standing, will have course credits and grades earned through extension recorded on their transcripts in the same manner as credits earned on campus. Guest students should consult with their home institution when formulating their registration plans and submit an application for guest admission.

Persons who wish to enroll in courses offered through this division and who have NOT been formally admitted to the University are registered as non-matriculated students in the College of Liberal Arts (see page 37). Students are advised to consult the non-matriculant adviser as well as the specific degree program requirements, and are urged to process formal application and admission documents as soon as possible. Upon admission to a Wayne State school or college, credits earned in non-matriculant status may be applied toward degrees subject to the approval of the admitting school or college.

Degree Programs
The following degrees are offered by other schools and colleges within the University, but coursework for these programs is available through credit extension services. Students should consult the Credit Extension Programs Office (577-4682) or their resident school/college for information regarding the amount of such coursework available through extension.

BACHELOR OF ARTS and BACHELOR OF SCIENCE in
Accounting (partial)
Finance and Business Administration (partial)
Management and Organization Sciences (partial)
Management Information Systems (partial)
Marketing (partial)

BACHELOR OF SCIENCE in Education with a Major in
Bilingual/Bicultural Education
Elementary Education

BACHELOR OF SCIENCE in Engineering Technology (partial)

BACHELOR OF SCIENCE in Nursing

BACHELOR OF ARTS with a Major in
English (partial)
Political Science (partial)
Sociology (partial)

BACHELOR OF PUBLIC AFFAIRS

Collateral-College Course Offerings
eWayne and Lifelong Learning Programs and Summer Sessions offer entire curricula or selected courses applicable to many Wayne State University degrees and certificates at convenient times and places for adult learners. The following schools and colleges regularly schedule courses through extension. For current information on upcoming courses and programs off-campus, see the Schedule of Classes.

Business Administration: Business Administration courses are offered in Oakland County at the Oakland Center in Farmington Hills.
School of Business Administration courses in the 6000-6090 series are open only to students holding matriculated graduate status at Wayne State University. Graduate courses, numbered at the 7000 level, are open only to students admitted to the M.B.A. program at Wayne State University.

Education: Bachelor’s, master’s, specialist and doctoral programs are offered at extension centers and the University Center at Macomb. In-service courses and programs are offered at the request of local schools and districts. The College of Education also participates in the interdisciplinary graduate certificate programs in infant mental health and gerontology.

Engineering: Courses leading to a bachelor’s degree with a major in electromechanical engineering technology are scheduled at the University Center at Macomb.
The Chemical Engineering Graduate Certificate in Hazardous Waste Management is offered at the Oakland Center and at selected extension locations, including Flint and Grand Rapids; nine of the thirteen credits required for this certificate may be applied towards the master’s degree. In addition, engineering courses and programs are offered on-site upon request of businesses or industries.

Periodically other courses from various departments in the College of Engineering are scheduled at extension centers.

Fine, Performing and Communication Arts: Courses in art and art history, communications, dance, film studies, journalism, music, photography, public relations, radio/television, and theatre are offered at several off-campus extension centers.

Liberal Arts: Introductory and advanced courses for both full-time and part-time students are available in English, history, political science, and sociology at selected off-campus centers. The College of Liberal Arts also participates in the interdisciplinary graduate certificate programs in infant mental health and gerontology.

Library and Information Science Program: An active off-campus graduate program provides courses for most of the requirements for the Master of Science in Library and Information Science degree, accredited by the American Library Association. The program offers courses at selected extension centers including Flint, Lansing, Grand Rapids and the Oakland Center. Courses leading to the Graduate Certificate in Archival Administration are also available.

Nursing: Professional nursing courses are offered for RNs at the University Center at Macomb and the Oakland Center. The BSN completion program is available to nurses licensed in Michigan who have completed diploma or associate degree programs in nursing. The ADN/MSN program is another option for academically talented students who have completed an associate degree in nursing and wish to pursue graduate studies. This innovative program combines the baccalaureate and master’s degree programs. Graduate courses are also available to students with a baccalaureate degree in nursing.

Pharmacy and Health Sciences: Courses are scheduled off-campus occasionally through the Clinical Laboratory Science, Mortuary Science, Occupational and Environmental Health Sciences, and the Occupational Therapy Departments.

Science: Courses are scheduled off-campus in nine departments: Biological Sciences, Chemistry, Communication Disorders and Sciences, Computer Science, Geology, Mathematics, Nutrition and Food Science, Physics and Astronomy, and Psychology. These courses, scheduled at most centers, may be used to fulfill University General Education Requirements.

Social Work: The School of Social Work offers the Bachelor of Social Work (BSW) part-time program at the Wayne County Center. Additional courses leading to completion of partial degree requirements for the BSW and Master of Social Work (MSW) degrees and for the Graduate Certificate Program in Social Work Practice with Families and Couples are offered at several extension sites.
Urban, Labor and Metropolitan Affairs: Off-campus courses for the Certificate Program in Labor Studies; for the Departments of Peace and Conflict Studies; Geography and Urban Planning; and Interdisciplinary Studies; as well as courses in Urban Planning and Urban Studies are offered for this College at several locations.

Alternative Delivery Modes of Instruction: (1) Television courses are equivalent to their traditional campus counterparts and provide a way to earn college credits through courses broadcast on WTVS, Channel 56, and the College Cable Channel. Television courses combined televised or videotaped lessons with bi-weekly class meetings, textbook readings, and assignments to provide students with a total learning experience. (2) Interactive video allows for the flexible transmission and receipt of course materials, lectures and assignments. WSU’s interactive compressed video system connects students and faculty at multiple sites by transmitting information via live two-way audio and video lines. These electronic classrooms enable faculty and students to interact with each other although separated by many miles. (3) Online courses are available for both credit and non-credit courses.

Travel Study: Sponsoring schools and colleges offer travel-study programs through Lifelong Learning Programs. Some are ongoing programs, and others vary each year. For current information, telephone 313-577-4682.

Noncredit Career and Professional Development Programs

eWayne and Lifelong Learning Programs and Summer Sessions offers many personal and professional development noncredit courses which reflect and anticipate the changing nature of current society. Programs are designed to provide quality experience to members of the community; to provide a forum which allows adults to discuss topical issues of interest; to gather insight from traditional disciplines; and to present contemporary thought, practice and technology. Offerings vary widely in subject matter and length. Courses require no special University admission status and are regularly scheduled both on and off campus, as well as through distance learning delivery methods, to meet the needs of groups and individuals. Completed courses are not listed on official University student transcripts. Many of the noncredit professional education courses award Continuing Education Units (CEUs). The CEU is a nationally-recognized unit of measurement of professional development education, and many professions require mandatory continuing education.

VISITOR PROGRAM

Under this program, individuals can attend a wide range of selected University courses, both on and off campus, provided classroom space is available. No grade or academic credit may be earned, and students may not be registered for courses taken for credit simultaneously with courses taken under the Visitor Program. Registration for courses may be completed by mail, or by telephone using MasterCard or Visa credit card. For specific course information and registration, call 577-4665.

CONTRACT PROGRAMMING

The Noncredit Programs unit specializes in the design of noncredit custom-designed training programs for business, industry, and public and private organizations. The unit also develops courses for academic credit or continuing education unit (CEU) credit in conjunction with other University schools and colleges, which may be made available to suit seminar or workshop needs of a client. For information, call 313-577-4682.

NONCREDIT REGISTRATION

Course fees, refunds, and transfer policies vary by program. Registration for noncredit courses or for the Visitor Program may be completed by telephone, using MasterCard or Visa credit card (telephone: 577-4665); or in person at the Noncredit Office, 2902 Academic/Administrative Building, 5700 Cass Avenue, Detroit, MI 48202.

Note: A student is not considered as enrolled in a noncredit course or program until payment is received. The University reserves the right to cancel any course or program due to insufficient enrollment, in which case fees are refunded.

UNIVERSITY CENTER at MACOMB

Office: 44575 Garfield Road, Clinton Township, MI 48038-1139 Telephone: 313-577-6261; 810-263-6700 Fax: 810-263-6120

Wayne State University offers courses of instruction and fifteen degree completion programs on the campus of Macomb Community College. The programs give students the opportunity to complete Wayne State degrees by attending Wayne State classes at the University Center at Macomb. Students who are admitted to the program may transfer up to sixty-four credits from Macomb Community College or another institution toward a Wayne State degree. Wayne State courses offered at the University Center include upper division courses and lower division courses which do not have Macomb Community College equivalents; they are open to all Wayne State students. For the degree programs listed below, most courses necessary to complete a program are offered at the University Center with the exception of laboratory courses, which are offered on Wayne State’s main campus.

All course work for degrees earned at the University Center must be completed in accordance with the regulations of the College and Department offering the degree, and of the University. See sections beginning on page 23 and page 38 for University regulations regarding undergraduate admission, tuition and fees, degree requirements, academic advising, and academic regulations. For descriptions of specific degree requirements of Colleges/Schools and Departments, see the School/College and Department sections of this bulletin.

Degree Programs

The following degree programs offered by Schools and Colleges at Wayne State University may be completed in full or in part at the University Center at Macomb.

BACHELOR OF SCIENCE in Marketing

BACHELOR OF SCIENCE in Education with a Major in Elementary Education

BACHELOR OF SCIENCE in Engineering Technology

BACHELOR OF ARTS with a Major in

- English
- Journalism
- Public Relations
- Political Science
- Speech Communication

BACHELOR OF ARTS and BACHELOR OF SCIENCE with a Major in

- Mathematics
- Psychology

BACHELOR OF INTERDISCIPLINARY STUDIES

BACHELOR OF SCIENCE IN NURSING

BACHELOR OF SOCIAL WORK (Partial)

BACHELOR OF TECHNICAL AND INTERDISCIPLINARY STUDIES

Application for Admission

Students may obtain application forms for admission to University Center programs at the University Center; completed forms may be returned to the University Center or to the Admissions Office on the main Wayne State University campus. Personnel are available at the University Center to assist potential students in completing applications.

General Information 51
STUDENT DEVELOPMENT

Office of the Vice President for Student Development and Campus Life
470 Student Center; 313-577-1992

The Division of Student Development and Campus Life supports and supplements the academic and urban missions of the University. The Division’s programs for students facilitate intellectual development and critical thinking, nurture positive self-identity, and develop an understanding of the University and society. The programs also encourage interpersonal relationships in a context of diverse, ethnic, cultural, and racial backgrounds. Both through formal and informal means, the Division continually assesses student needs and supports a process of continuous improvement in services.

Among the major duties of the Office of the Vice President for Student Development and Campus Life are communication of student attitudes and activities to the faculty, administration and general public; interpretation of University objectives and policies to students; assistance to students in developing their potential through effective use of the University’s resources; and the encouragement of intellectual stimulation beyond the traditional classroom environment.

Moreover, this office oversees University Admissions, Scholarships and Financial Aid, Counseling and Psychological Services, Dean of Students, Intercollegiate Athletics and Intramural Recreation, Housing and Residential Life, the Recreation and Fitness Center, Career Planning and Placement Services, Records and Registration, the Office of International Students and Scholars, Testing, Evaluation and Student Life Research, Academic College Enrichment Services (Trio Programs), the Student Center, student organizations and activities, and a variety of special student programs.

It is the responsibility of the office to communicate with the President and his executive staff and to cooperate in the work of their divisions; to participate in development of the University with regard to its program and staff needs; to help students develop a sense of their responsibilities; to coordinate the University student code of conduct; to maintain communication between students and all other groups within the University; and to assure that student viewpoints are represented in all policy-setting deliberations of the University.

Through a variety of specialized programs and student academic support services, the Division assists students in the successful pursuit of their educational objectives. Programs of the Division also provide opportunities for students, individually or in groups, to voice their questions and concerns and to receive assistance in defining problems and working toward effective solutions. Furthermore, the Division seeks to minimize student frustrations so that the student may gain confidence in his/her ability to accomplish goals through established channels. The Division of Student Development and Campus Life is committed to the quality process and promotes the continual improvement of services provided to students and others.

Office of the Registrar
2 West, Helen Newberry Joy Student Services Center; Telephone: 313-577-3550, Fax: 313-577-3769
http://sdrd.wayne.edu/registrar/registrarhome

The office of the Registrar supports the instructional mission and, to a lesser extent, the research and professional service missions of the University. The office coordinates, supplements and facilitates many activities necessary to the instructional process. Administrative services are also provided to the Vice President for Student Development and Campus Life and many academic and program units across the University.

The office consists of three major units: Student Records, Registration and Scheduling, and Student Systems Technical Support. Student Records maintains academic and personal student data, grades, transcripts, graduation applications, and diplomas and certifies enrollment, including enrollment in athletics and veterans’ programs. Registration and Scheduling prepares the Schedules of Classes and Final Examinations, makes room assignments for classes and special events, processes registrations, drops and adds, assesses tuition and fees, determines residency, and reviews all appeals for exceptions to University enrollment policies. Student Systems Technical Support provides hardware, software, Web and network services to offices in the Helen Newberry Joy Student Services Center. The unit also develops systems and procedures for business processes, produces official enrollment data, and responds to the student information needs of the University community.

Career Planning and Placement Services
1001 Faculty/Administration Building; 313-577-3390; Fax: 577-9943

Career Planning and Placement Services provides help to students and alumni in defining career and employment goals and assists them in their search for employment opportunities. In addition to the following services, it offers topical workshops, career-related events, and group and individual career/placement counseling. The Office welcomes the opportunity to discuss customized services to meet individual needs.

Career Development: The main focus of this service is to help students explore career options, clarify their career goals, and link those goals to appropriate academic paths. Individual and group services are available.

Cooperative Education, Internships, and Summer Programs: Comprehensive, paid, professional, career-, and non-career related work experiences are made available, including a wide variety of part- and full-time experiential learning situations. Workshops are offered on an ongoing basis.

On-Campus Student Employment: Students may work on campus up to twenty hours per week as a Student Assistant or College Work-Study student. Job openings may be viewed in-house or on line via our open posting system.

Placement and On-Campus Recruiting: Graduating students and alumni may increase professional employment opportunities through on-campus interviews, resume referral, career fairs, in-house and on-line job postings, and a myriad of related support services.

Counseling and Psychological Services
522 Student Center Building; 313-577-3398, Fax: 577-9628
Web: http://www.caps.wayne.edu

The goal of the Office of Counseling and Psychological Services (CAPS) is to assist in the development and maintenance of a positive and healthy university community. In order to do this, we provide a variety of psychological services and educational programming that promotes students’ personal well being.

CAPS provides individual counseling, psychotherapy, assessment, group counseling, workshops, and consultation to faculty and staff.

Intake Hours: CAPS offers open intake hours for new clients seeking counseling: Wednesday from 1-6 pm and Thursday from 8:30-12 pm.

Eligibility: All currently enrolled students are eligible for counseling services. Alumni, children, or spouses are not eligible.

Crisis Services: In the case of an emergency, the student, faculty, or staff member can contact CAPS and indicate that a student needs immediate assistance. If assistance is needed during evening or weekend hours, emergency help is available. CAPS staff can be reached by calling 313-325-5634; the Wayne State University Public Safety Department is also available: 313-577-2222.

Dean of Students Office
351 Student Center; 313-577-1010

The Dean of Students Office provides services and affords opportunities to enhance campus life. The Office coordinates new student and
for planning adequate services and other resources for the Wayne State University undergraduate student body.

Course Evaluation Office, 684 Student Center, 577-0469: This office coordinates the University-wide Student Evaluation of Teaching (SET) Program, and produces and distributes individual and department level reports based on data collected during the evaluation process. This Office welcomes questions and/or suggestions about the evaluation process from students and faculty members.

Office of International Students and Scholars (OISS)

416 Welcome Center; 313-577-3422; Fax: 313-577-2962
Web: http://www.oiss.wayne.edu

The University is home to approximately 4,000 international students and visiting scholars from nearly 100 countries. The OISS was established to aid these individuals in their educational and scholarly pursuits at Wayne State. It provides quality service in facilitating linkages to the campus and community, offering cross-cultural educational programs and activities, and assisting in matters related to immigration regulation compliance.

The Office’s mission is to support and enhance the educational, cultural, and social experiences of international students and scholars at Wayne State University. It serves as a primary link to the University, the community, the federal government, and public and private agencies and organizations. In addition, it provides international and cross-cultural educational programs to the University and its community.

OISS staff advises students and scholars on immigration regulations and issues of cross-cultural adjustment; provides educational, cultural and social programs and activities, including a comprehensive orientation program and written material designed to help them achieve their educational and personal goals; assists University departments in the hiring of foreign national employees by processing necessary immigration petitions with the Immigration and Naturalization Service (INS), Department of Labor (DOL), and United Department of State (DOS); consults and interacts with University units, governmental organizations and other agencies; serves as a focal point for campus and community services; provides cross-cultural workshops and training seminars; and works with campus and academic support units to help define and achieve institutional goals related to international education and exchange.

New International Students and Scholars receive the OISS welcome booklet with their visa document (Form I-20 or DS 2019). The booklet provides information on a wide variety of important topics to these individuals before they leave their home country. Among the subjects covered are housing, health insurance, expenses, immigration status, local climate, and air transportation. New students and scholars from abroad must report to the OISS soon after their arrival and participate in a comprehensive orientation program. This program is designed to meet immediate needs in terms of housing information and University registration procedures; introduce them to U.S. culture and the University’s educational system; and provide information on banking, health insurance, safety, and immigration regulations. In addition, a number of social and recreational programs and activities are planned to assist students and scholars in making a smooth transition to their new environment.

Non-Immigrant Students: Before registering for classes, all non-immigrant international students must report to the OISS to complete check-in procedures and have immigration documents reviewed, purchase mandatory health insurance, and obtain an orientation schedule. Transferring F-1 students must obtain a transfer clearance form from their previous school in the United States and must complete transfer procedures as provided in the federal regulations within fifteen days of the first day of class. F-1 students must notify the INS through the OISS of any change in program, including changes in level and field of study. J-1 exchange visitors, including students, may not make a change in level, field, or category without the
advance approval of the Department of State, and may be precluded from change of visa status until a two-year home country residency requirement is met.

Immigration and Naturalization Service (INS) regulations require that F-1 and J-1 students maintain a full course of study and make normal progress toward program completion at the institution they have been authorized to attend. Graduate students (including those in pre-master’s status) must successfully complete at least eight credits each semester (excluding Spring/Summer or an approved annual vacation). See an OISS adviser for details on complying with this and other INS requirements.

Commuting Canadian students enrolled less than full time must obtain an I-20 from OISS each semester they are enrolled and should consult with an adviser to determine the impact of this status on future immigration benefits including the availability of practical training.

Professors and Research Scholars: The University provides foreign professors and research scholars with opportunities to engage in research, teaching, consulting, and lecturing with colleagues at Wayne State; to participate actively in cross-cultural activities; and to share their experience and increase knowledge about the United States, Wayne State University, and the metropolitan Detroit community. OISS provides centralized support services necessary to enable and assure the employability of such non-U.S. citizens within government regulations. Offers of employment to foreign nationals must be authorized by the OISS, and only this Office may sign immigration forms and petitions related to employment on behalf of the University. All foreign national employees must complete INS Form I-9, ‘Employment Eligibility Verification’ and present evidence of their identity and employment eligibility at the OISS before commencing employment at Wayne State University.

Health Insurance: International students and J-1 exchange visitors and their dependents holding J-2 status are required to comply with the health insurance requirements of the University. Commuting Canadian students may waive the health insurance requirement by providing proof of OHIP coverage prior to each semester of enrollment. Insurance which meets these requirements may be purchased through the OISS. The mandatory international insurance program is designed to provide international students, exchange visitors, and their eligible dependents with continuous insurance protection and access to quality affordable health care services. The University is mandated by federal law to terminate from its program all exchange visitors and their dependents who do not meet minimum insurance requirements. Forms to purchase this insurance are available by contacting the OISS Health Insurance Advocate: 313-577-0724

For U.S. Citizen and Permanent Resident students and their dependents, the Student Injury and Sickness Insurance Plan is a voluntary insurance program plan available for purchase. For more information, including purchasing the Domestic Health Insurance plan, students may go to http://www.collegiate-risk.com or contact Collegiate Risk Management at 1-800-922-3420 or the Health Insurance Advocate in OISS at 577-0724.

Cross-Cultural Activities: The OISS provides cross-cultural activities in order to provide the broadest exposure to American society, culture, and institutions. Activities include: field trips, holiday programs, International Week, and a free international coffee hour held in the seventh floor of the Student Center Building every Wednesday from 11:30 a.m. to 1:30 p.m., which provides opportunity for dialogue with and among international students and scholars, American students, and community sponsors.

Office of Housing and Residential Life
700 Williams Mall; 313-577-2116
Web: http://www.housing.wayne.edu/

The mission of the Office of Housing and Residential Life, consistent with the academic mission of Wayne State University, commits to creating a positive living-learning environment for students by providing staff, resources, programs, services, and facilities that promote and support educational achievement, social development, and civility through local and global cultural awareness and understanding.

Facilities and programs administered by this Office are located just steps away from classrooms, libraries, the Student Center, and the Recreation and Fitness Center and combines the convenience and activity of the campus with the energy and pace of downtown urban living.

August 2002 saw the opening of North Residence Hall located on Williams Mall. This 112,000 square-foot residence hall houses over 370 undergraduate student in traditional residence hall fashion featuring double and triple rooms with private bathrooms, high speed internet connections, cable, local phone services, laundry facilities, study lounges, on-site food service and much, much more. Ten rooms are ADA compliant with additional accommodations provided as necessary. An additional 465 beds with similar accommodations will be available in South Residence Hall in August of 2003.

A variety of apartment choices are available for single undergraduate and graduate students as well as for students with families.

University Tower is the newest apartment option, featuring one-, two-, and three-bedroom apartments (most with two bathrooms), central air conditioning, a computer lab, a day-care center and 24-hour reception desk. Family units are available.

DeRoy Apartments are high-rise furnished efficiency, one-, or two-bedroom units with central air conditioning and a 24-hour reception desk. For graduate and professional students; family units are available.

Chatsworth Tower offers graduate and professional students spacious efficiency, one- and two-bedroom apartments in an elegant early-twentieth century building with a 24-hour reception desk. Some air conditioned units are available.

Chatsworth Annex offers spacious, unfurnished two-bedroom units and is particularly suitable for families.

Sherbrooke Apartments offers very reasonably priced efficiency and one-bedroom units, available to graduate and professional students.

Faculty and staff living in University housing are subject to a ten percent surcharge above student rates and are limited to a one-year stay. For more information and current pricing, contact the Office of Housing and Residential Life at 313-577-2116 or visit the Website: http://www.housing.wayne.edu/

Office of Military and Veterans Affairs (OMVA)
2 West, Helen Newberry Joy Student Services Center; 313-577-3374; Fax: 313-577-3769
Web: http://sdcl.wayne.edu/omva/omvahome.html

This office assists veterans, eligible dependents/survivors, reservists and national guard members in obtaining educational benefits. Specifically, students are aided in applying for Federal benefits outlined under Title 38, U.S.C., including: the Montgomery G.I. Bill (chapter 30), the Reserve G.I. Bill (chapter 1606), V.E.A.P. (chapter 32), Vocational Rehabilitation (chapter 31), and the Survivors'/Dependents' Educational Assistance (chapter 35). All eligible students must officially request to use their educational benefits each semester.

Standards of Academic Progress: The minimum academic level for continued benefit eligibility is a cumulative grade point average (g.p.a.) of 2.0 for undergraduate students, and 3.0 for graduate students. Students with cumulative g.p.a. below these set minimums are placed on academic probation. Failure to raise the average to the established standard after two semesters will result in termination of V.A. benefits. Information on restoration policies and requests should be directed to the University’s OMVA Certifying Official.

Changes in Enrollment (Drop/Add): If a student changes his/her enrollment during a semester, the student must immediately notify the University’s OMVA Certifying Official. The OMVA is required to
certify to the DVA all changes in credit load, including complete withdrawal. Failure to notify immediately would result in a status of overpayment of benefits for the student.

Non-Punitive Grades: Payments received for educational benefits may be recouped upon the student's earning a non-punitive grade. In the case of an 'X' grade for an unofficial withdrawal, the student will be required to verify the last date of attendance to the Department of Veterans Affairs (DVA).

Changes in Program: Students are permitted to change programs without detriment to their benefits. However, the student must have completed course work attempted under the prior program successfully, and the OMVA must verify to the DVA the student's ranking and credit hour completion in the new program. Forms for verifying this change are: Form 22-1995 for veterans/reservists, and Form 22-5495 for survivors and dependents.

Non-Degree Status: Students must be in a degree program to receive benefits. Those not currently admitted to a degree program and enrolled in classes must verify to the OMVA via an academic adviser the reason for enrollment (i.e., completing foundation courses for a master’s-level program).

Late Tuition and Late Registration Fee Waiver: Late fees, Partial Payment fees and Late Registration fees can be waived for all students currently receiving VA Educational Benefits. Contact OMVA for assistance.

Advance Benefit payment: Advance pay of VA benefits is available to students enrolled at least half-time. Amount available is equal to the first partial and second full month of the semester. Contact OMVA for details on additional requirements.

Licensing/Certification Reimbursement: All students collecting under Active Duty GI Bill are eligible for reimbursement for any licensing test fees. Contact the OMVA or visit http://www.gibill.va.gov for further information.

Tutorial Assistance is also available as part of all benefit packages. Eligible recipients may receive $100.00 per month up to 12 months to help defray tutoring costs. Contact the OMVA for further details. No charge to benefit entitlement is incurred for the first six months received of Tutorial Assistance.

Active Duty Tuition Waiver: A Waiver of Non-Resident Portion of (assessed) Tuition is available to military service personnel on active duty in Michigan and their spouses and dependent children. Eligible students must complete the student information and section II of Request for Waiver of Non-Resident Portion of Tuition form along with substantiating documentation of Active Duty status to the Registration and Scheduling Office, 2 West, Helen Newberry Joy Student Services Center each term. The completed waiver must be submitted before the end of the first week of classes.

VA Work-study Program: The VA work-study allowance is available to all students eligible for VA Educational Benefits. If you’re at least 3/4-time student in a college degree program, or a vocational or professional program, you can ‘earn while you learn.’ Pay for VA Work-study is the equal to the Federal minimum wage or your State minimum wage, whichever is greater.

Services performed under a VA work-study program must be related to VA work. Examples of acceptable work are:

— Processing VA paperwork at any University or College having VA Office (e.g., you may be enrolled at WSU but work at Oakland or Macomb Community College VA Offices)
— Outreach services under VA supervision;
— Work at VA medical facilities or National Cemetery System offices
— Work with the Veterans counselor at any of the MESC offices
— Work in the Education or Transition offices at local base
— Work at Department of Defense facilities related to education benefits under the GI Bill.

National Guard Students: Please note that Wayne State does not currently participate in the Guard’s Tuition Grant Program. However, if your branch provides Tuition Assistance and/or Tuition Reimbursement the OMVA will provide assistance as necessary with regard to grade and tuition certifications to you unit.

Reserve Officer Training Corps (ROTC): Although there is no ROTC program on WSU campus interested personnel can be attached to UM or EMU’s ROTC units. Member would remain a student of Wayne State University while attending Air or Army ROTC classes at the second institution. Contact the OMVA for reference to the ROTC offices or reach them directly at Army EMU ROTC (734) 487-1020 or Air Force UM ROTC at (734) 764-2403.

Recalled To Active Duty (Reservists / National Guard): Students serving in the Selected Reserves or National Guard who are called up to Active Duty during a semester may request full reimbursement of tuition and fees. Students must file an Exception to Enrollment Policy form and submit a copy of their orders to OMVA. Students called up active near the end of a semester are encouraged to consider requesting Incomplete grades for coursework.

Early Out Requests: Potential Students on Active Duty requesting a verification of enrollment to be sent to their Commands must meet two requirements. The individual must be admitted to Wayne State University and Registered for classes. Please contact the Admissions Office and Registration Office for assistance. Once these conditions are met, the VA Certifying Official can complete an enrollment verification for active duty members seeking an early out from military service. Hard copy proof of student’s admittance and registration for classes is NOT required for the VA Certifying Official to complete the enrollment verification.

OMVA Photo Album: WSU has a Military Photo Album available to all current and past faculty, staff and students. Honor yourself or a family member for service to country by posting a photo in uniform to this site. Log on to http://sdcl.wayne.edu/omva/omvahome.html for a tour through the gallery.

Academic College Enrichment Services (ACCESS)

1 East, Helen Newberry Joy Student Services Center; 577-5050

ACCESS provides academic assistance and support services to promising youths and adults in the metropolitan Detroit area who have been historically under-represented in college due to their economic condition, first generation status, educational preparation, or family background. This office helps students and potential students who range in age from sixth-graders in Detroit Public Schools to veterans of the U.S. armed services seeking admission to college.

This department’s mission also includes efforts to increase the post-secondary admission of the diverse populations it serves, and to advance the retention rate of such students in the University. Through continuous improvement of services, the department aims to both maximize the academic achievement of its participants as well as to promote equity and excellence at Wayne State University.

The department has five federally-funded programs and one state-funded initiative (the King-Chavez-Parks College Day Program):

The Educational Opportunity Center (EOC), 1 East, Helen Newberry Joy Student Services Center, 577-5050, provides a comprehensive career counseling program that offers free academic, vocational career and financial aid information to eligible applicants nineteen years of age and older, who wish to pursue a postsecondary education.

The Higher Education Opportunities Committee (HEOC) Talent Search Program, 1 East, Helen Newberry Joy Student Services Center, 577-5050, provides guidance and information on college admissions and financial aid to students who reside in its target area or attend designated Detroit high schools and wish to pursue a post-secondary education. HEOC also sponsors trips to colleges and
works with students on career choices, tutoring, study skills and test-taking techniques.

The Martin Luther King, Jr.—Cesar Chavez—Rosa Parks (KCP) College Day Program, 345 Manoogian Hall, 577-3085, offers motivational and informational activities and college visitsations designed to encourage seventh- through twelfth-grade students in targeted schools to complete high school and continue on to college.

Student Support Services (Project 350), 1 East, Helen Newberry Joy Student Services Center, 577-5050, provides academic support and facilitates admission to Wayne State University for students who demonstrate academic potential or have financial need, and who meet the federal eligibility requirements for participation in Student Support Services Programs. Project 350 students are required to participate in an initial summer program.

Upward Bound, 5425 Woodward, 577-1943, provides services for low income and first generation college students in grades 9-12 with the potential and motivation to be successful in a college or university. The students must attend designated Detroit high schools, in the service target area. Upward Bound provides students with a head start on improving the skills required to succeed in college, through instruction, tutoring, academic and career guidance, personal counseling, and cultural enrichment activities.

Veterans’ Educational Opportunity Program (VEOP), 5425 Woodward, 577-9710, provides a program of instruction, academic and career guidance, personal counseling, tutoring, and post-secondary placement to veterans who have served in the U.S. Armed Forces from December 31, 1955 to present.

Student Center Administration

Director: 573 Student Center; 577-3482

The Student Center is a unifying force in the life of the University. This department’s mission is to provide a Student Center which will meet the educational, social, recreational, dining, program, and meeting-room needs of students, faculty and administration, alumni, and guests. The department has three components — program, service, and facility — and operates in the tradition of college unions and the philosophical outlook of the Association of College Unions International. The Student Center provides a physical and intellectual environment in which students can develop individual, organizational, programming, and leadership skills, as well as experience personal growth.

Student Center: The Student Center serves as the home away from home for thousands of students. It is the facility where friends meet to socialize between classes, where many catch up on class assignments, watch television, eat, or spend a leisure hour. To insure the effectiveness of its programs and services, the Center administration meets regularly with an advisory board that includes student representatives. The major facilities, programs and services of the Student Center include:

Campus Information Center: 577-3568: The Center, located in 135 Student Center, provides information and programs that will enhance students’ experience on campus. Staffed by students, the Center is open from 10:00 a.m. to 5:00 p.m., Monday through Friday.

Information available in the Center includes: University academic programs and services; on-campus and off-campus housing information; campus activities; travel information; campus weekly and monthly calendars; on-campus and off-campus job postings; SMART and DOT bus schedules; community activities and community service opportunities. The Center also co-sponsors informational and entertainment programs such as Hallo-Wayne, The Dating Game, Wayne Winter Week, Health Day, Spring Travel Fair, and Tax Fair.

Weekly Programs: Each week during the academic year, Student Center Administration offers a variety of different programs for the general student population. These programs include: the Wayne Underground Music Series, Multiformity: An Entertainment Series, and special evening programming.

Food Service: The Student Center provides a selection of food services for the campus community. Dining options include ‘Little Caesars,’ ‘Friel’s Kitchen,’ ‘Tubby’s,’ ‘Taco Bell Express,’ ‘McDonald’s,’ and ‘KFC Express’ located on the first floor, and ‘Java Too!’ on the lower level. Additional food options are provided by the ‘Barnes and Nibble’ convenience shop and numerous vending machines located in the Center.

Postal Contract Station, 577-4328: Located in 101 Student Center, the station provides the following services Monday-Friday, 9:00 a.m. to 4:00 p.m.: postage stamps, express mail, certified/registered mail envelopes, postcards, priority mail, package handling, and money orders.

Game Room, 577-3477: Recreation facilities are located on the lower level. Billiards and table tennis equipment may be rented by the hour. Table games, foosball, and a variety of video games are also available in the facility.

Service Center, 577-3484: Located in 211 Student Center, the Service Center provides the following services for a fee: typewriter rental, duplicating service, SMART bus tickets, material fee cards, laminating service, overnight photo-finishing service, international identification cards, Fax service, and State Hall locker rental. In addition, the Student Center accounts and personnel processing, and cashier services for student organizations. It also provides Notary Public service at no charge to students, faculty and staff.

Grosberg Religious Center: Various religious denominations have offices on the sixth and seventh floors of the Student Center. Programs are offered, and personal and spiritual counseling are available from the various University chaplains.

Reservations Office, 577-4585: Rooms and audio-visual equipment are available for meetings, seminars, conferences and special programs. Bake sale lotteries, literature table, and showcase information is also provided by this office, located in 573 Student Center.

Business Office, 577-8062: Located in 217 Student Center, the Business Office houses the Student Center’s Accounting Administrator and Business Manager and is responsible for maintenance of Student Center accounts and personnel processing, and cashier services for student organizations. It also provides Notary Public service at no charge to students, faculty and staff.

Graphics Office, 577-3730: Located in Room 21 of the Student Center, this office provides design services including banners, showcases, flyers, posters, signs, special projects, and consultation for student organizations and university departments.

Recreation and Fitness Center

5210 Gullen Mall; 313-577-BFIT (2348)

This state-of-the-art facility is located in the heart of the campus, next to the Student Center and the libraries on Gullen Mall. It offers programs and services to meet the recreational, fitness, wellness and personal development needs of the campus community. Among its features are:

Group Fitness Classes (non-credit): A rich assortment of classes, conducted by trained, certified and experienced instructors, is available to meet individual needs, including traditional high/low aerobics, hip-hop, step, yoga, spinning, stretch and tone, and aqua aerobics classes.

Open Recreation: The fitness area, courts, walking track, climbing wall, pool, aerobics gym, and multi-activity center offer opportunities for unstructured play and participation. Basketball, volleyball, and a variety of equipment and areas for working out, stretching, or socializing are offered.

Fitness and Wellness Programs: Health assessment and personal training programs for every level of fitness are available to all members.
Leisure Pool: The pool includes a giant water slide, lazy river, bubble bench, and spa. Water basketball, volleyball, water polo and aqua fitness programs are offered at various times.

Climbing Wall: This is a challenging exercise option for building strength and endurance. All necessary equipment may be rented at the climbing wall registration desk; structured classes and open-use periods are available.

The 75,000 square-foot Recreation and Fitness Center also features a concession and merchandise area, a service center on the lower level with equipment check-out and locker services, a family/disabled locker room, two lifts in the pool area for use by disabled persons, weight equipment specifically for use by the disabled, men's and women's locker rooms with individual private showers, day lockers and dressing areas.

Athletics, Intramurals and Recreation
Matthaei Facility: 126 Matthaei Building; 577-4295
Intramural Sports: 127 Matthaei Building; 577-4278
Intercollegiate Athletics: 101 Matthaei Building; 577-4280

Wayne State University has a rich athletic tradition dating back to 1917. Its student athletes have captured numerous championships, including national championships directed by the NCAA and Conference honors. Individual participants have been honored with recognition as national champions, academic All-Americans and All-Conference distinction. The over 400 student athletes currently involved in competitive athletics have a combined grade point average of 2.92. The athletic department provides competitive opportunities in the following sports: baseball, men's and women's basketball, men's and women's cross country, men's and women's fencing, football, men's and women's ice hockey, softball, men's and women's swimming, men's and women's tennis, and volleyball.

The University competes in both NCAA Division I and Division II. Currently, both men's and women's hockey are Division I, with men competing in the College Hockey America Conference. The other University athletic programs compete in the Great Lakes Intercollegiate Athletic Conference (GLIAC). Members of the GLIAC are: Ashland University, Ferris State University, University of Findlay, Grand Valley State University, Hillsdale College, University of Indianapolis, Mercyhurst College, Michigan Technological University, Northern Michigan University, Northwood University, Saginaw Valley State University, and Wayne State University.

The University offers a wide and varied program of recreational and intramural activities. The Matthaei Complex, located on the west end of the campus, offers a myriad of drop-in activity areas that include courts and fields for basketball, football, jogging, racquetball, soccer, squash, tennis, and volleyball, a weight training/exercise room, and swimming/diving facilities. Use of these facilities is free; a current University ID is required for admission to the indoor facilities.

The Matthaei Building is open from 7:30 a.m. to 9:30 p.m., Monday through Friday; and 12 noon to 4:30 p.m. on Saturdays, during the fall and winter semesters. During the spring/summer semester the building is open from 7:30 a.m. to 7:30 p.m., Monday through Friday. A facility schedule is available monthly. Operational hours are subject to change, and not all areas of the complex will be available at all times, due to scheduled classes, intramural activities and varsity athletics. Lock and towel services are available for students. For additional facility information, visit the Matthaei Shop in the Matthaei Building; or call: 577-4295.

Ticket and schedule information is available at the Athletic Office, 101 Matthaei Building, 313-577-4280; or call the ticket office toll-free: 1-866-WSU-TIKS. For current information on WSU athletic teams (including ticket information), visit the Website: http://www.WSUathletics.com All men’s basketball and football games are broadcast on the Warrior Radio Network at WQBH AM 1400.

ADDITIONAL SERVICES
Computing & Information Technology Division (C&IT)
5925 Woodward Avenue; 313-577-4778
http://www.wayne.edu/cit

Computing & Information Technology (C&IT) strives to enhance Wayne State University’s teaching, learning, research, and service activities. The division will seek to align its activities and services closely with the University’s strategic directions to ensure that Wayne State is successful in a highly competitive and technology-intensive world for universities. C&IT will work to deliver its core services efficiently to anticipate and respond to the changing needs of the university community in using technology creatively and effectively.

Computer Access: On the World Wide Web, C&IT maintains a list of computer labs for student use in Wayne State University (WSU) libraries, academic departments, and extension centers located in Oakland and Wayne Counties (at http://support.wayne.edu/).

WSU AccessID: Every WSU student and employee has a unique AccessID and password as their personal key to comprehensive electronic services and resources at Wayne State — as soon as they apply for admission or are hired. Some of the services accessible with a WSU AccessID (e.g., xy6789) are: free dial-in Internet access from home, e-mail and directory services, and software downloads; and Web access through WSU Pipeline to Blackboard courses, communication tools, and E-Services such as Web registration and E-Grades (see below).

WSU students and employees can look up and activate their AccessID themselves, on the Web at http://webmail.wayne.edu. For assistance with an AccessID or password, call the C&IT Help Desk at 313-577-4778.

Access to the Internet: WSU students and employees can access the Internet and the University’s network on campus or from home:
1) using a computer in any Wayne State Library, at the Oakland Center or Wayne County Center, or in computer labs in many academic departments on campus; and
2) using a home computer and a WSU AccessID (see above) to dial a WAYNECONNECT network access number in southeast Michigan or Windsor, Ontario — for free use by WSU students and employees exclusively. Outside WSU’s dial-in service area, MichNet dial-in lines are available for shared use with other Merit Network members. WSU and MichNet access numbers and dial-in setup instructions are on the Web (at http://support.wayne.edu/dialin).

4) using a home computer with a cable modem, DSL service, or a commercial Internet Service Provider such as AOL, if more extensive Internet access or additional services are needed (such as disk space on a server for Web pages). Information about dial-in alternatives and additional Internet services is on the Web at http://support.wayne.edu/allwsu/dialin/isp/

For assistance accessing the Internet or WSU’s network, contact the C&IT Help Desk at 313-577-4778 or helpdesk@wayne.edu.

WSU e-mail and Other Communication Tools: Free electronic mail and other communication and collaboration tools (such as calendars, secure chat, threaded discussions, and mailing lists) are available to all WSU students, faculty, and staff using their WSU AccessID (see above). Now that Wayne State is communicating more and more by means of the University’s AccessID e-mail System, it is essential that everyone at Wayne State activate their WSU AccessID e-mail account and use it, or forward their WSU e-mail to a regularly used e-mail address. Assistance with AccessIDs, passwords, and using
WSU e-mail is available from the C&IT Help Desk at 313-577-4778 or on the C&IT Online Help Website: http://support.wayne.edu

WSU E-Directory: Every student, faculty and staff member at Wayne State has a listing in the University’s Electronic Directory on the Web. This helps people find WSU e-mail addresses and other contact information a person can add to their E-Directory listing. To look up a student or employee, visit WSU’s WebMail System (at http://webmail.wayne.edu) and click ‘Search WSU’ on the left. Wayne State’s Online Directory of Schools, Colleges, Divisions, and Departments also is available and kept up-to-date on the Web (at http://networks.wayne.edu/onlinedirectory).

E-Services and Online Courses (through WSU Pipeline): WSU students can build a course schedule, register for classes, look up final grades, pay tuition, check the status of financial aid applications, obtain unofficial transcripts, and more — right on the Web, using WSU Pipeline. All that is needed to access WSU Pipeline (at http://pipeline.wayne.edu) is a current Web browser on any computer connected to the Internet and a WSU AccessID (e.g., xy6789) and password. For information about WSU AccessIDs, see above.

Students can view up-to-date information about each course, take part in secure chat and threaded discussions with classmates, and hand in assignments electronically using course tools in WSU Pipeline or the Blackboard Learning System, which is accessible through Pipeline. Many online courses also are offered through Blackboard.

Access to WSU e-mail and electronic calendars for each course and for school and personal use also are available through WSU Pipeline.

For assistance accessing WSU Pipeline or Blackboard, contact the C&IT Help Desk at 313-577-4778.

High Performance/Advanced Computing: C&IT, in partnership with a number of Wayne State schools and colleges, maintains the University’s high-performance/advanced computing facility for graduate students, post-doctoral students, faculty, and academic staff who have computationally-intensive research needs. At the heart of WSU’s advanced computing facility as of 2002-03 is an IBM RS/6000 SP supercomputer that is connected to the university’s high-performance, fiber-optic backbone network, one of the most advanced ATM data networks in higher education. With a connection to Abilene, the nation’s research network for the Internet2 project, WSU’s backbone network fully supports the expansion of WSU research and collaboration with academic institutions around the country and abroad, national laboratories, and supercomputing centers in San Diego, California and Urbana-Champaign, Illinois. Contact an instructor or the C&IT Help Desk (see below) about getting access to WSU’s high-performance computer. Also see the University’s Advanced Computing Website (at http://www.ac.wayne.edu).

Research Consulting: WSU students can get help with research design and using statistical software applications (one-on-one or in small groups) by making an appointment with C&IT Research Consulting at 313-577-5804. Demonstrations of various aspects of using technology in the research process are conducted for University classes by request.

Help Desks (for using computers and accessing networks): The C&IT Help Desk provides telephone services at 313-577-4778, e-mail services (via helpdesk@wayne.edu), and online information and services on the Web (at http://support.wayne.edu/) to help Wayne State University students faculty and staff:
1) access the Internet and resources on WSU’s network from a home computer, using the dial-in modem or a high-speed Internet connection (cable or DSL);  
2) access and use WSU’s AccessID e-mail system (or forward WSU e-mail to another account);  
3) use other communication tools, course tools, and E-Services at Wayne State;  
4) get help when a WSU AccessID or password is lost or forgotten;

5) use general-productivity software (such as Microsoft Office) on a Windows PC or a Macintosh computer; 
6) obtain free software (site-licensed or public domain); 
7) get information about purchasing a Windows PC or Macintosh computer and software at educational discounts; 
8) troubleshoot problems with Windows PCs and Macintosh computers; or 
9) use or obtain information about any of the central computing and networking resources and services that C&IT provides.

The Computing & Information Technology Help Pages on the World Wide Web (at http://support.wayne.edu/) also contain information about how to access and use central computing resources and services at Wayne State, purchase computers and software at educational discounts, and obtain public-domain or site-licensed software.

Computers and Software: Information about the types of desktop computers and laptops to buy -- with links to computer companies that offer educational discounts for Wayne State students and employees (Apple and Dell) -- is on the C&IT Online Help Website (at http://support.wayne.edu/allwsu/hardware).

On that same Website, WSU students and employees can link to the C&IT Software Download Center and download site-licensed and public domain software for free -- using their WSU AccessID (e.g., xy6789) and password. Links also are provided to recommended places where university students and employees can purchase software at educational discounts.

C&IT’s Software Clearinghouse provides software at reduced prices to WSU students and employees through volume purchase agreements and campus site licenses. For more information and current prices, call 313-577-4060, e-mail clearinghouse@wayne.edu, or visit their Website (at http://support.wayne.edu/clearinghouse).

Student Technology Fee: Revenue from Wayne State’s Omnibus Fee is used to enhance information technology resources and services for students. In addition to increasing the number of computers and computer labs on campus and furthering the integration of technology in education, these funds help keep WSU’s technology environment for students competitive. C&IT is responsible for administering the portion of Omnibus Fee revenue that funds technology projects for students. Student Technology Fee posters, stickers, and table tents can be found in various locations on campus to show students where and how their money is being invested.

Electronic Computing News and Announcements: C&IT announces changes to the availability and status of Wayne State’s networks and the computing resources and services that the division provides, (including hours of operation), by sending e-mail messages to every WSU school, college, and division for posting in their areas and/or to those who use a particular system or resource that may be unavailable for maintenance. Recent news items are available on the C&IT Online Help Website (at http://support.wayne.edu/notice/).

C&IT Contacts for WSU Students:
C&IT Help Desk: 313-577-4778; helpdesk@wayne.edu 
Research Consulting: 313-577-5804 
Software Clearinghouse:313-577-4060; clearinghouse@wayne.edu

Health Insurance
Office of International Students and Scholars (OISS)
416 Welcome Center; 313-577-3422; Fax: 577-2962 
Web: http://www.oiss.wayne.edu

Students may choose to purchase an injury and sickness insurance plan for a reasonable fee. The policy provides stipulated amounts for outpatient prescription drugs (sickness only), hospitalization, surgery and emergency room fees, alcoholism and drug abuse treatment, and psychotherapy benefits. Forms to purchase this insurance are available by contacting the Health Insurance Advocate in the OISS; telephone 577-0724.
Primary Care Nursing Center
4K, University Health Center; 745-4774

Students are encouraged to use the Primary Care Nursing Center for health care needs including illness, physical examinations, and family planning. Counseling services are also available. X-rays and laboratory tests can be performed in the University Health Center. There are charges to students for these services; most health care plans are accepted. Visits are by appointment, which may be made by telephoning 993-8640.

Office of the University Ombudsperson
1326 Faculty/Administration Building
313-577-3487; Fax: 577-9296
Ombudsperson: Victoria Asmar-Anderson

The Office of the University Ombudsperson exists to assist students, faculty and staff in solving University-related problems. It can help students break through bureaucratic issues to overcome unfair treatment, or obtain consideration of extenuating circumstances, by providing information and advice and by facilitating communication. The Office has no authority to change academic or administrative decisions, although it may be able to influence them.

Students may request assistance on academic problems related to admission, advising, degree requirements, discrimination, dishonesty, grades, harassment, records, registration, and teaching; and on nonacademic problems relating to financial aid, housing, parking, payroll, and tuition and fees.

The Office of the University Ombudsperson investigates appeals and complaints and exercises independent judgment. It is not required to fulfill any request or advocate a particular point of view. It will maintain student anonymity if requested to do so. Students, faculty and staff can improve the quality of University service by calling attention to problems they experience.

The Ombudsperson is the Chairperson of the Tuition and Fees Appeals Board (TFAB). The TFAB is charged by the President in Executive Order 96-1 to be the final arbiter of appeals for tuition and related fees. Each appeal is reviewed as an individual case, and cancellation of tuition and/or fees is granted when circumstances warrant. The TFAB will consider only those appeals that are filed within one calendar year following the last day of the academic term in which the challenged fees were assessed.

Police/Public Safety Services

The Wayne State University Police Department (577-2222) patrols and services the University and the city streets, businesses, and private residences within and between the various campus areas. The Department, to the extent that resources allow, also patrols and provides other police services to the neighborhoods and businesses in the area surrounding the University.

Police service is provided twenty-four hours a day, seven days a week. All officers have, at minimum, a Bachelor’s degree. They are commissioned as police officers after training at a state-certified Police Academy. Any matter requiring the services of a police officer can be reported at any hour of the day or night (76 West Hancock; 313-577-2222).

Blue Light System — Emergency Telephones (577-2222): The University has installed outdoor emergency telephones throughout the campus. These emergency telephones are identified by bright blue lights.

Emergencies (577-2222): All emergencies should be reported immediately, i.e.: all crimes, missing/stolen property, automobile accidents, suspicious persons, injured persons, vandalism, break-ins or burglaries.

Accidents (577-2222): Ambulatory patients will be transported, by officers, to either Detroit Receiving Hospital or the University Health Center. The Police Department does not provide ambulance service but utilizes the Detroit Fire Department Emergency Medical Service to handle other than minor injuries.

Fire or Other Extreme Hazards (577-2222): Emergencies such as fire, smoke, explosions, broken gas or water mains, severe electrical hazards, etc., should be reported.

Community-Oriented Policing Section (COPS) (313-577-6064):
The Police Department’s Community-Oriented Policing Section (COPS) provides a number of crime prevention services, including personal safety seminars, crime prevention programs, and services. All programs and services are free of charge to any Wayne State department, student, staff, or faculty member. Examples of services provided include: Security Services, Street Smarts seminars, VIN etching, Operation Identification, Alcohol Awareness, Crime Free Multi-Housing, and Rape Aggression Defense Training. COPS also publishes monthly ‘Campuswatch’ articles. E-mail inquiries may be made to: campuswatch@wayne.edu/

UNIVERSITY LIBRARIES

The Wayne State University Library System is a dynamic organization operating within the challenging and rapidly changing environment of today’s information age. The University Libraries support the education, research and service missions of the University and its user communities through comprehensive, high-quality services and resources. The University Libraries are leaders in providing accurate, timely and Web-based information throughout the metropolitan Detroit area and Michigan. Holdings in the University Libraries’ total more than three million volumes, 18,000 serial subscriptions, and a broad range of electronic resources.

The Library System includes the David Adamany Undergraduate Library, the Arthur Neef Law Library, the Purdy/Kresge Library, the Science and Engineering Library, the Vera P. Shiffman Medical Library and its Learning Resource Center at the Eugene Applebaum College of Pharmacy and Health Sciences, and the Library Services Center at the Oakland Center in Farmington Hills.

All University Libraries offer reference and information services, interlibrary loan, computer searching, photocopying services and library and information literacy programs. The libraries make use of the latest computer technologies to provide state-of-the-art access to instructional and research materials.

Library Cards: see WSU OneCard, page 44.

David Adamany Undergraduate Library
Telephone: 313-577-8852
http://www.lib.wayne.edu/

The David Adamany Undergraduate Library is designed to enhance and enrich the learning experience of undergraduate students by helping them to master the research skills necessary for academic success and for success as information-literate citizens. The library features over 500 computers, three instructional labs, a twenty-four hour study area, collaborative study rooms, 2,700 comfortable seats for study, course reserves, and hands-on opportunities for learning to use multimedia and electronic information resources. It also houses the Academic Success Center, the Office for Teaching and Learning, the UGE 1000 department, and the Media Collection which includes video tapes and lecture audio tapes.

Arthur Neef Law Library
Telephone: 313-577-3925
http://www.lib.wayne.edu/

The Neef Law Library is located at the north end of the University main campus. Its collection of over 550,000 volumes makes it the second largest law library in Michigan. The Library subscribes to over 1,500 journals and 1,000 loose-leaf services. An official depository since 1971, the Library holds over 100,000 U.S. documents including 3,500 current serials. Students and faculty have access to the two...
in the sciences except nursing. The Library offers its services on-site and through Learning Resources Centers at the Eugene Applebaum College of Pharmacy and Health Sciences and the Simons Library at the Karmanos Cancer Institute. Computers with access to all library resources, instructional software, and productivity tools, are available.

The Shiffman Medical Library provides access to MEDLINE and other databases and maintains a monthly schedule of information literacy workshops about MEDLINE, the Internet, and other topics for health sciences faculty and students. Librarians are available seven days per week and by appointment to assist students with their health sciences research needs. The Library has nearly 300,000 volumes with approximately 3,000 journal subscriptions, as well as an outstanding reference collection including a wide range of health and medicine statistical sources.

University Archives
Walter P. Reuther Library; 313-577-4024

The University Archives, a unit of the College of Urban, Labor and Metropolitan Affairs, was established in 1958 as a research/refer- ence center for the University’s historical records. In addition to being the official repository for records of Wayne State and its predecessor institutions, the Archives also collects faculty papers and the records of student and professional organizations that document the development of the University and higher or professional education.

The Archives’ holdings of over 6,000 cubic feet include manuscripts, minutes, publications, photographs and reports. There are over 500 current and non-current titles, extensive vertical and biographical files, catalogs from 1868 to present, and the student newspaper from 1918 to present. Topics range from House Un-American Activities Committee, and Michigan Academy of Pharmacy, occupational health and safety, and teacher training, to student activities. Tours of the University Archives and the Reuther Library may be scheduled upon request.

Archives of Labor and Urban Affairs
Walter P. Reuther Library; 313-577-4024; Fax: 577-4300 http://www.reuther.wayne.edu

The Archives of Labor and Urban Affairs, a unit of the College of Urban, Labor, and Metropolitan Affairs, enjoys an international reputation as the largest and finest labor archives in the world. In all, the Archives has some 95 million documents in addition to 20,000 books, monographs, union publications and proceedings; 2,000,000 photographs; and 20,000 films and tape recordings. A unique portion of the holdings is the labor journal and newspaper collection, which has nearly 1,600 current and non-current titles dating from the late 1800s to the present.

The Archives was established in 1960 to collect and preserve records of the American labor movement, related social, economic, and political reform groups, and twentieth century urban America. The Archives has since become the official depository for the inactive files of the United Auto Workers, the Congress of Industrial Organizations, the American Federation of Teachers, The Newspaper Guild, the United Farm Workers, the Service Employees International Union, the American Federation of State, County and Municipal Employees, the Air Line Pilots Association, the Association of Flight Attendants, the Industrial Workers of the World, and many state and local labor organizations. Records have also been received from such groups as the Citizens Crusade Against Poverty, the Michigan Chapter of the American Civil Liberties Union, the Detroit Branch of the National Association for the Advancement of Colored People, the United Community Services of Detroit, United Way for Southeastern Michigan, and New Detroit, Inc. Many individuals who played leading roles in labor and urban affairs have also placed their papers in the Archives.
SCHOOL OF BUSINESS ADMINISTRATION

DEAN: Harvey Kahalas
Foreword

The School of Business Administration is a professional school concerned with the theory and practice of business administration. The primary objectives of the School are to provide relevant education of high quality for business administration students, and to develop new knowledge through research and encourage application of its findings. To this end, in addition to their instructional services, the faculty has been a continuing source of notable scholarly publications and it is a special strength of the School that it brings a fine research faculty to teach undergraduate as well as graduate courses.

The School has a tradition of instructional programs exemplifying high standards for both faculty and students as is acknowledged by the accreditation of the AACSB International — The Association to Advance Collegiate Schools of Business, the international association for management education, for both the baccalaureate and master’s degree programs. The School provides relevant, comprehensive business education through programs that serve recent high school graduates as well as older student populations. The student body is racially and ethnically diverse, commuting, and often working and raising families. To meet the needs of these students, the School schedules classes throughout the metropolitan area, during both day and evening hours. Most programs can be completed at each of our campus locations.

The undergraduate program begins after students have acquired an educational foundation in the basic sciences and arts in the first two years of undergraduate work. During the third and fourth years, the student follows a program of study in the School of Business Administration designed to provide professional education. Students may select majors in accounting, business logistics, finance, management, information systems and manufacturing, and marketing. Degrees of Bachelor of Science in Business Administration or Bachelor of Arts in Business Administration are awarded.

The graduate program leading to the Master of Business Administration (MBA) degree is dedicated to educating graduate students for professional careers in business administration. The Master of Science in Taxation degree is offered to those exhibiting an advanced appreciation of the study of taxation. The Master of Science in Accounting program prepares individuals for professional careers in public accounting. These graduate programs are offered primarily during the evening hours, with occasional course offerings at other times. For additional graduate program information, consult the Wayne State University Graduate School Bulletin.

The School of Business Administration also recognizes its obligation to community service. As a central part of an urban university, the School makes a special commitment to foster training, basic and applied research that will benefit business enterprises. Of primary importance is the dedication to excellence in the instructional programs that prepare the business leadership that is critical to the continuing revitalization of southeastern Michigan.

Mission Statement

The mission of the School of Business Administration is excellence in management education, research, and service with an emphasis on metropolitan organizations and issues in a global environment.

The School of Business Administration aspires to be the leading business school among North America’s public research universities with an urban mission. We will foster a spirit of partnership with students, alumni, employers, and other key stakeholders to assist us in achieving our mission and our aspiration.

Teaching: Our goal is to provide comprehensive, high impact business education that addresses the needs of our constituencies. We will achieve this goal in several ways, including: preparing students for useful professional and societal lives by providing a high impact educational experience; achieving continuous improvement of curricula to respond to the changing needs for business education; offering a comprehensive set of degree programs that are geographically accessible to a diverse set of students; making programs accessible to students through academic preparedness initiatives; infusing our teaching with real world applicability; developing international alliances that add value to our research and teaching; and offering high quality executive development programs that are relevant to business needs.

Research: Our goal is to publish high quality scholarship and to conduct cutting-edge analyses of the issues confronting organizations. We will achieve our goal in several ways, including: publishing research in leading academic and professional journals; infusing our research with real world applicability; developing international alliances that add value to our research.

Service: Our goal is to contribute our expertise to professional organizations, the community, and the University.

Degree Programs

BACHELOR OF SCIENCE in Business Administration with majors in
- Accounting
- Business Logistics
- Finance
- Management
- Information Systems and Manufacturing
- Marketing

BACHELOR OF ARTS in Business Administration with majors in all of the Bachelor of Science majors cited above

POST-BACHELOR’S CERTIFICATE IN ACCOUNTING

MINOR IN BUSINESS ADMINISTRATION

*MASTER OF BUSINESS ADMINISTRATION*

*MASTER OF SCIENCE IN ACCOUNTING*

*MASTER OF SCIENCE IN TAXATION*

* For specific requirements, see the Wayne State University Graduate Bulletin.
DIRECTORY OF THE SCHOOL

Dean: 226 Prentis Building; 577-4501
Associate Dean: 206 Prentis Building; 577-4503
Associate Dean: 208 Prentis Building; 577-4213
Assistant Dean of Student Affairs
200 Prentis Building; 577-4510
Assistant Dean of Administrative Affairs
105M Prentis Building; 577-4502
Assistant Dean of External Affairs
240 Rands House; 577-4448
Director, Computing and Information Services
6 Prentis Building; 577-4546
Director of Development/Alumni Affairs
103 Prentis; 577-9208
Director of Professional Development
240 Rands House; 577-4448
Director, Center for International Business Studies (CIBS)
307 Prentis; 577-6809
Director, Institute for Organizational and Industrial Competitiveness (IOIC)
226 Prentis; 577-4501
Director, Manufacturing Information Systems Center (MISC)
100 Rands House; 577-7837
Director, Office of Student Services: 200 Prentis Building; 577-4510
Student Senate Office: 116 Rands House; 577-4783
Department of Accounting: 200 Rands House; 577-4530
Department of Finance: 328 Prentis Building; 577-4520
Department of Information Systems and Manufacturing
100 Rands House; 577-9145
Department of Management: 328 Prentis Building; 577-4515
Department of Marketing: 300 Prentis Building; 577-4525
Undergraduate Program Information: 577-4505
Graduate Program Information: 577-4510

Website: http://www.busadm.wayne.edu

BACHELOR’S DEGREES

Admission Requirements

The undergraduate program of the School of Business Administration is offered at the upper-division (junior-senior) level to Wayne State University students who have completed the pre-business administration course requirements (see below), and a minimum of fifty-four credits with at least a 2.5 cumulative grade point average; or transfer students who have completed the pre-business administration course requirements and a minimum of eighty quarter credits or fifty-four semester credits with at least a 2.5 cumulative grade point average. The maximum number of transfer credits that will be accepted from a junior or community college is ninety-six quarter credits or sixty-four semester credits. Equivalency tables have been developed with area community colleges which identify lower division community college courses that are equivalent to the lower-division pre-business administration courses at Wayne State University.

Application for admission and all official collegiate transcripts must be submitted by transfer students to the Undergraduate Admissions Office of Wayne State University. Qualified applicants will then be referred to the School of Business Administration’s Office of Student Services.

Students seeking admission who are currently enrolled in the pre-business administration program at Wayne State University and who have a cumulative grade point average of less than 2.5 are encouraged to meet with a counselor in the School of Business Administration and will be required to present final grades before formal admission action is taken.

There is no guarantee of admission to the School of Business Administration. Formal appeals of admission denial may be made to the Assistant Dean of Student Affairs of the School of Business Administration. Guidelines for appeal are available in the Office of Student Services and in the Office of the Dean.

Pre-Business Administration Curriculum

The undergraduate program in business administration begins after students have acquired an educational foundation during the freshman and sophomore years in the basic sciences and the arts. Additionally, basic courses in accounting, business computing, business law, mathematics, economics, and statistics will comprise a portion of the pre-business administration curriculum. Students complete prescribed courses as pre-business administration students formally enrolled in the College of Liberal Arts.

The Undergraduate Committee, under certain conditions, may admit students to the School of Business Administration with up to three deficiencies in pre-business administration course requirements. However, no student will be admitted who lacks all THREE of the following courses: business computing, mathematics and statistics.

SPECIFIC COURSE REQUIREMENTS: The courses listed below are required of all pre-business students prior to admission to the School of Business Administration. No substitute courses are permitted except as noted. A minimum grade of ‘C’ (2.0 g.p.a.) must be earned in course requirements indicated by an asterisk (*).

Accounting

*ACC 3010 -- Elementary Financial Accounting Theory: Cr. 3
Prereq: MAT 1500 or equiv; ECO 2010, 2020 or equiv.;
coreq: ISM 2630.

*ACC 3020 -- Elementary Managerial Accounting Theory: Cr. 3
Prereq: ACC 3010 and ALL ACC 3010 prerequisites.
Business Law
ACC 3510 -- Business Law I: Cr. 3
Prereq: sophomore standing.

Economics
*ECO 2010 -- (SS) Principles of Microeconomics: Cr. 3
*ECO 2020 -- (SS) Principles of Macroeconomics: Cr. 3
Note: Either ECO 2010 or 2020 will satisfy the basic Social Science Group Requirement.

English
*ENG 1020 -- (BC) Introductory College Writing: Cr. 4
Prereq: placement through English Qualifying Examination or ENG 1010.
and
Pass the English Proficiency Examination in Composition.
NOTE: Students must successfully pass this examination prior to the completion of 60 semester credits.

Mathematics
Equivalent to:
*MAT 1500 -- Finite Mathematics for the Social & Management Sciences: Cr. 3
Prereq: Qualifying Examination.
or higher level;
and
Pass the Mathematics Proficiency Examination.

Statistics
*ISM 3300 -- Quantitative Methods I: Probability & Statistical Inference: Cr. 3
(Recommended) Prereq: MAT 1500 or higher or equiv.

General Education Requirements
Students must also satisfy University General Education competency and group requirements as part of the Pre-Business Administration curriculum.

Bachelor of Science in Business Administration
Admission Requirements: see above.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Science in Business Administration must satisfactorily complete 122 credits including the pre-business administration curriculum (see above), and all general education, core, major, and elective requirements as noted below. Within the student's degree program, no more than sixty-four credits in business administration subjects and upper division economics may be applied toward the degree.

To be eligible for the degree, students must have earned a minimum 2.0 grade point average in the major requirements and a minimum overall grade point average of 2.0 in all undergraduate course work completed at Wayne State University.

— General Education Requirements
All undergraduate students are responsible for satisfactorily completing the University General Education Requirements (see page 23). In reviewing that material, students should note that MKT 4330 satisfies the Writing-Intensive major course requirement for business administration curricula; ISM 2630 (formerly ACC 263) or passing the Computer Literacy Competency Examination satisfies the Computer Literacy requirement; PSY 1010 (4 credits) is recommended for satisfaction of the Life Science group requirement; B A 1010 is recommended for satisfaction of the Critical Thinking requirement; and ECO 2010 or 2020 also satisfies the Basic Social Science group requirement. Pre-business and Business Administration students should consult the University Advising Center or the School of Business Administration's Office of Student Services, for specific information regarding the satisfaction of these requirements, consistent with academic requirements of the School.

Implementation Schedule: Effective Fall Term 1987. Wayne State University has required undergraduate students to fulfill the University-wide General Education Requirements, implemented in accordance with the following schedule:

Fall Term 1987: The General Education Requirements apply to all entering freshmen and to students who transfer twelve or fewer credits.

Fall Term 1990: The General Education Requirements apply to the group of students cited above and to transfer students who began college work in Fall 1988 or thereafter.

Fall Term 1991: The General Education Requirements apply to all undergraduate students.

Students who have matriculated at Wayne State University prior to the years covered by the above schedule must fulfill all University and School/College requirements in force at the time of entry.

Note: All General Education competency requirements may be satisfied through required pre-business administration courses, except for mathematics. Students who elect MAT 1500 must satisfactorily pass the Mathematics Proficiency Examination.

— Core Requirements
Following formal admission to the School of Business Administration and after completion of the pre-business administration curriculum (see above), all students must complete the following core courses. Students are responsible for observing all course prerequisites and limitations.

FIN 4290 -- Business Finance: Cr. 3
ISM 4400 -- Quantitative Methods II: Statistical Methods: Cr. 3
Must be satisfactorily completed in first sixteen credits after admission to the School of Business Administration
ISM 4630 -- Business Information Systems: Cr. 3
MGT 4530 -- Management of Organizational Behavior: Cr. 3
ISM 4600 -- Production Operations Management: Cr. 3
MGT 6890 -- Business Policy: Cr. 3
To be taken as one of the last five courses toward bachelor's degree
and after completion of all other core courses.
MKT 4330 -- Marketing Management: Cr. 3
MKT 4330 -- (WI) Business Communication: Cr. 3
Prereq: successful completion of English Proficiency Examination
in Composition and all other pre-business administration requirements.

— Major Requirements
Majors and specializations are offered through the School's five academic departments: Accounting, Finance, Information Systems and Manufacturing, Management, and Marketing. Majors in Accounting, Business Logistics, Finance, Management, Information Systems and Manufacturing, and Marketing require six courses (eighteen credits). Each of the undergraduate majors employs a capstone course as a vehicle to assess a student's knowledge of the discipline. Students in all of the majors also complete the capstone course for the undergraduate program: MGT 6890, Business Policy.

Students should refer to the respective departmental section for specific majors and specializations. After selecting a major, students should consult the Office of Student Services of the School of Busi-

School of Business Administration

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ness Administration to obtain an official Plan of Work. All courses must be taken in accordance with an approved Plan of Work and all course prerequisites and limitations must be observed.

Elective Requirements
Electives form an integral part of an education in business administration. A student’s selection of elective courses should be guided in part by his or her career objectives. These elective courses constitute study in addition to the pre-business administration, core, and major requirements listed on the student’s Plan of Work.

FREE ELECTIVES: Elective credits for students admitted to the School of Business Administration total fifteen semester credits. The major or specialization may contain recommendations for electives. After admission to the School of Business Administration, elective credits may still be required in non-business elective courses and/or in free elective courses. After a student has been admitted to the School, any and all remaining free electives must be taken at the 3000 level (junior-senior) or higher.

NON-BUSINESS ELECTIVES: In order to graduate, all business administration students, regardless of major, must satisfactorily complete a total of sixty-five semester credits of non-business course work, including any pre-business requirements that are considered non-business. If the requirement of sixty-four credits of non-business course work is not satisfied before admission to the School of Business Administration, students may have additional non-business electives to complete. Non-business electives must be taken from courses offered outside the School of Business Administration. After a student has been admitted to the School, any and all remaining non-business electives must be taken at the 3000 level (junior-senior) or higher in the College of Liberal Arts, the College of Urban, Labor and Metropolitan Affairs, the College of Science, the College of Engineering, or the College of Fine, Performing and Communication Arts, with the following exceptions:

1. Computer Science courses below the 3000 level, except CSC 1000, may be used to satisfy non-business elective course requirements;
2. Upper-division courses in the Department of Economics (3000 level or higher) and Physical Education or ROTC credits may not be used to satisfy this requirement.

LANGUAGE ELECTIVES: Students who are interested in employment opportunities overseas or with multinational corporations should consider electing certain foreign language courses. In addition, students who wish to earn the Bachelor of Arts degree may utilize their electives toward the satisfying of the Bachelor of Arts foreign language requirements (see below). For more information, contact the department in the College of Liberal Arts in which the language is taught.

Bachelor of Arts
in Business Administration
Admission Requirements: see above, page 63.

DEGREE REQUIREMENTS are the same as for the Bachelor of Science, cited above, with the additional stipulation that a student must attain a level of proficiency in a single foreign language equivalent to the completion of eleven credits through university-level course work or placement by examination administered by the appropriate W.S.U. foreign language department. In some instances, completion of the Bachelor of Arts foreign language requirements may result in course work beyond the 122 credit minimum.

Minor in Business Administration
The School of Business Administration offers a minor in business administration for undergraduate students majoring in other disciplines. The Business Minor program consists of six courses, totaling eighteen credits. Students must also complete prerequisite courses with a minimum grade of ‘C’ (2.0 g.p.a.) for each course. The minor provides an excellent opportunity for non-business majors to broaden their knowledge of the business disciplines. In addition, the program enhances career prospects and establishes a solid business base for pursuing a Master of Business Administration degree. To be eligible to apply for the Business Minor, students must have a minimum overall grade point average of 2.5.

PREREQUISITE COURSES
ECO 2010 -- (SS) Principles of Microeconomics: Cr. 3
ECO 2020 -- (SS) Principles of Macroeconomics: Cr. 3
Equivalent of:
MAT 1500 -- Finite Mathematics for the Social & Management Sciences: Cr. 3
or higher level.

REQUIRED COURSES
ACC 3010 -- Elementary Financial Accounting Theory: Cr. 3
FIN 4290 -- Business Finance: Cr. 3
MGT 4530 -- Management of Organizational Behavior: Cr. 3
MKT 4300 -- Marketing Management: Cr. 3
Plus two electives from School of Business Administration courses.

Cooperative Education Program
The School of Business Administration actively participates in the University Cooperative Education (Co-op) Program in which students alternate semesters of work and academic study. Eligibility begins in the junior year or upon admission to the School of Business Administration if the student has previously earned more than the minimum fifty-four semester credits required for admission to the School. Students interested in this program should contact the Cooperative Education Coordinator, Career Planning and Placement Services, 1001 Faculty Administration Building; 577-3390.

Students admitted to the program with minimum junior standing should recognize that an additional calendar year may be needed to fulfill the requirements for the bachelor’s degree. No academic credit is granted for participation in the Co-op Program; Satisfactory/Unsatisfactory (‘S/U’) grades are given, however, and are entered on the official University transcript.
**ACADEMIC REGULATIONS**

For complete information regarding academic rules and regulations of the University, students should consult the General Information section of this bulletin, beginning on page 5. The following additions and amendments pertain to the School of Business Administration.

All students must fulfill the upper-division requirements of the School of Business Administration in effect at the time of admission to the School of Business Administration.

**Admission to the School**

Students seeking a business degree must be admitted to the School of Business Administration before enrolling in upper division business coursework. Students who violate this policy will be subject to administrative withdrawal from these courses.

**Admission to Class**

Please consult each term's Schedule of Classes for appropriate dates and deadlines for registration, late registration, and add/drop period. Students may not attend a class for which they are not officially registered and will not be added retroactively.

**Application for Degree**

Each candidate must file an Application for Degree in the Records Office, 1 West, Helen Newberry Joy Student Services Building, NO LATER THAN THE LAST DAY OF THE FINAL REGISTRATION PERIOD for the semester in which he or she expects to complete the requirements for the degree. If an Application for Degree was filed for a previous semester in which the student did not graduate, a new application is required. Applications are available from the University Records Office; or from the School’s Office of Student Services, 200 Prentis Building.

**Attendance Policy**

Regular attendance is a necessary condition for success in college study. This policy recognizes that the course content includes classroom lecture and discussion, certain aspects of which may not be covered on examinations, quizzes, term papers, or homework assignments. Each instructor will announce his or her attendance standards at the beginning of the term.

**Change of Major**

Students wishing to change majors or Plans of Work within the School of Business Administration must submit a request in writing to the Undergraduate Advisor in the Office of Student Services, 200 Prentis Building. A Plan of Work for the requested major will then be mailed. Students are advised that such changes occurring late in their program may result in additional coursework beyond the minimum requirement of 122 credits.

**Conduct**

Each student is subject to official regulations governing student activities and student behavior. Furthermore, it is the responsibility of each student to adhere to the principles of academic integrity. Academic integrity means that a student is honest with him/herself, fellow students, instructors, and the University in matters concerning his or her educational endeavors. Thus, a student should not falsly claim the work of another as one’s own, or misrepresent him/herself so that the measures of one's academic performance do not reflect his/her own work or personal knowledge. Assignments submitted for any class are expected to be original, i.e., not resubmissions of work submitted in a previous or concurrent class.

If there are reasonable grounds to believe that a student has disregarded the regulations or student responsibilities, he or she may be disciplined. Such discipline may include suspension or dismissal, but no dismissal will be directed without reasonable opportunity for an appropriate hearing, as provided in the Student Due Process statute.

**Degrees**

Degrees are granted upon the recommendation of the faculty of the School of Business Administration. Consideration is given to both scholastic attainment and to compliance with the standards and rules of the School.

**Directed Study**

A directed study involves advanced readings and research or a tutorial under the supervision of a faculty member in an area or areas of special interest to the student and faculty member; credits vary between one and three. A cumulative grade point average of 2.75 is required to be eligible for consideration for directed study work. Students must complete the Undergraduate Directed Study form and obtain the required signatures prior to registration. No more than three credits of directed study in one department are permitted in any semester. A total of no more than six credits of directed study may be used to fulfill graduation requirements. Contact the Office of Student Services, 200 Prentis, for further information.

**English Proficiency Examination**

The English Proficiency Examination in Composition is a pre-business administration and a University requirement. Each student must pass the examination prior to the completion of sixty semester credits. Students who fail the examination and who have taken sixteen credits after admission to the School of Business Administration will be excluded from taking any further courses until the proficiency examination is successfully completed. Entering students should take the examination as soon as possible in order to avail themselves of remedial work if needed. Information regarding application, dates, and times of the examination may be obtained from the Testing, Evaluation and Evaluation Office, 698 Student Center; telephone: 577-3400. The fee is $7.00.

No credit toward a degree in business administration is granted for English 1010 or 1080. A maximum of four credits toward a degree in business administration is granted for English 1020, (BC) Introductory College Writing, or its equivalent.

**Mathematics Competency or Proficiency Requirement**

All undergraduate students who enrolled in credit programs at Wayne State University for the first time after Fall 1983 and prior to Fall 1987, either as freshmen or as transfer students, must demonstrate proficiency in mathematics. This proficiency requirement must be satisfied by the time a student has earned sixty credits; see page 27, under ‘Proficiency Requirements in English and Mathematics.’

For students enrolled in Fall 1987 or after and prior to Fall 1990, the mathematics competency is fulfilled by the satisfactory completion of former MAT 150, 180, 201, or their equivalents, prior to the student earning thirty credits. For students enrolled in Fall 1990 or thereafter, MAT 150 or MAT 180 will no longer satisfy the competency requirement; students must also pass the Mathematics Proficiency Examination. Students should consult with their adviser regarding the various course or test options and procedures for satisfying the competency requirement.

Further information may be obtained from the University Advising Center, 1600 Adamany Library, or from the Office of Student Services of the School of Business Administration, 200 Prentis Building. Information about registering for proficiency examinations may be obtained from the Testing, Evaluation, and Student Life Research Services Office, 698 Student Center.
Graduation with Distinction
Wayne State University bestows upon students completing the baccalaureate degree three separate designations for scholastic excellence reflected in the cumulative grade point average: *Cum Laude*, *Magna Cum Laude*, and *Summa Cum Laude*. Graduation with distinction is indicated on the student’s diploma and on the transcript. For information, see page 34.

Grade Appeal Procedure
Students disputing a final grade should first contact the instructor of the course informally. Should the dispute remain unresolved, the student may initiate a formal appeal.

A copy of the School of Business Administration’s grade appeal procedure is available in the Office of Student Services, 200 Prentis Building.

Non-grade-related grievances should be brought directly to the appropriate departmental chairperson or to the Assistant Dean of Student Affairs. Additionally, the University Ombudsperson (see page 59) is available to all students for assistance in the resolution of University-related problems.

Incomplete Marks
The mark of ‘I’ which is not converted to a letter grade within one year from the time it was received will be considered a withdrawal (‘W’), unless prior to the end of that year the student requests and the instructor agrees to certify in writing to the University Records Office that additional time is needed for the removal of the Incomplete.

The mark of ‘I’ is appropriate only when a student has completed all of the requirements for a course except for a specific assignment, such as a project or an examination, and only when the instructor agrees that a student has a valid reason for not completing the assignment.

Normal Program Load
The normal academic load for an undergraduate student in the School of Business Administration is from nine to sixteen credits each semester, depending upon the particular courses elected. No student should expect to carry a full load and at the same time be employed full-time. Students desiring to carry more than eighteen credits must obtain written permission from the Office of Student Services prior to registration. Excess credits will not be honored when taken without prior written approval.

Passed/Not Passed Registration
Undergraduate students in the School of Business Administration may not take courses offered by the School of Business Administration on a passed / not passed basis.

Probation and Exclusion
A student who registers for, but repeatedly fails to complete his/her program and thus does not make normal progress toward graduation, may be placed on probation.

If a student’s academic work is unsatisfactory (less than 2.0 cumulative grade point average or less than 2.0 grade point average in his or her major), the student will be placed on probation with the understanding that he or she will be expected to achieve a cumulative 2.0 grade point average within the next twelve credits completed, or a 2.0 major grade point average within the next six credits completed in the major. If probationary status is not removed within the prescribed number of credits, the student is subject to either temporary suspension or permanent dismissal from either the major or from the School of Business Administration.

The second (or subsequent) time(s) a student is placed on probation, he or she is subject to immediate dismissal from the School of Business Administration.

In the event of a temporary suspension, readmission to the School of Business Administration will be considered only with the recommendation of the Undergraduate Committee. (The Undergraduate Committee is composed of the four departmental chairpersons and is chaired by the Assistant Dean of Student Affairs.) If, after readmission to the School of Business Administration, the academic deficiency is not removed within the first nine credits attempted, the student will be permanently dismissed from the School. Class work completed at another institution during a period of temporary suspension will not be considered for transfer credit.

While on probation, a student may not represent the School in student activities.

The exclusion of any student will be reviewed by the Undergraduate Committee of the School of Business Administration. A student on probation who fails to complete the courses for which he or she registers, without good reason as determined by the Dean or designee, shall not be permitted to re-register in the School of Business Administration.

The Undergraduate Committee, upon the recommendation of the student’s department chairperson, may permanently exclude a student from a major, if the student fails to remove himself or herself from probationary status within the prescribed number of credits.

In matters where the School’s final decision is based upon the evaluation of a student’s academic performance and when review procedures available to him or her within the School have been exhausted, the student may request the Provost to review that decision on the record.

Retaking Courses
The University policy on retaking courses is stated on page 38. No course in which a student has received a passing grade or mark may be repeated without the prior written approval of the Assistant Dean of Student Affairs of the School of Business Administration.

Residence Requirement
After admission to the School of Business Administration, a student may not take course work and receive transfer credit for courses taken at the lower division (freshman and sophomore) at other institutions. The final year and the last thirty-two credits must be taken at Wayne State University. In exceptional cases, a limited number of the last thirty-two credits toward a degree may be taken at another accredited college or university. All such cases must receive the approval of the Chairperson of the Undergraduate Committee before the work is undertaken.

Students returning to the School after a five-year absence are required to conform to the program requirements in effect at the time of their return.

Retention of Instructors’ Records
Term papers and examinations shall either be returned to the student or retained by the instructor for a period of ninety days. Thereafter, they may be destroyed. Instructors shall retain grade books for at least five years following the end of a term and instructors who leave the institution shall give grade books for courses conducted during the past five years to their department chairperson. Five years after the end of a course, grade books may be returned to the instructor or destroyed by the department.

Transfer of Courses in Major
No more than six semester hours of transfer credit may be applied toward a student’s major requirements. These courses must have
received a grade of ‘C’ or better. Transfer of major credit beyond six semester hours may be applied toward free elective requirements.

Waiver of Course Prerequisites
Students must comply with all course prerequisites as stated in this bulletin and in the Schedule of Classes. Exceptions may be granted in certain cases for which prior written approval of the Assistant Dean of Student Affairs or the appropriate department chairperson is required.

Waiver of Degree Requirements
Students must comply with degree requirements as listed in this bulletin and on their Plans of Work. They may petition for a modification in degree requirements by completing a waiver form and submitting it to the Office of Student Services of the School of Business Administration. Waiver of a School requirement requires the recommendation of the Undergraduate Committee and the approval of the Dean or his/her designee. Waiver of a departmental requirement requires the recommendation of the departmental chairperson and the approval of the Dean or his/her designee. Undergraduate students are advised that no faculty member is authorized to approve a change in degree requirements.

Withdrawals from Class
See page 39 for the University policy on adjusting your schedule. Tuition refund and withdrawal policy also appears each semester in the Schedule of Classes.

FINANCIAL AIDS and AWARDS

Scholarships and Awards
The scholarships listed below give preference to students in the School of Business Administration. While the School of Business Administration, through its scholarship committee, a departmental committee, or a joint committee of the School and an external organization, foundation, or agency is directly involved in selecting the recipients of certain scholarship awards, the School is also asked to nominate student candidates for certain other scholarship awards though it may not participate in the selection process.

Adcraft Club of Detroit Foundation Scholarship: Award of $1000 open to a student majoring in marketing. Fall semester deadline; contact Department of Marketing.

Alumni Association Endowed Scholarship: Designated for business administration students demonstrating high academic achievement, leadership, and service. Established in 1986. Winter semester deadline; contact the School’s Student Services Office, 200 Prentis.

Richard H. Austin Excellence in Accounting Scholarship: Award of variable amount established to recognize potential abilities and academic achievements of minority accounting students.

Stanton P. Bocknek Memorial Scholarship: Awarded for the first time in 1988, these awards ($500 and $1000) are designated for students demonstrating high academic achievement in accounting.

Lawrence and Charlynne Braun Endowed Scholarship: Established to recognize students who have displayed excellence in leadership, character, and scholastic achievement.

Theodore Buckwick Endowed Scholarship: Established to recognize students majoring in management who are working to finance their own education.

Budco Endowed Scholarship/Internship Program for Marketing Management: Annually, two awards of $1000 are given to undergraduate marketing or management students on the basis of financial need, leadership, character, and scholastic achievement.

Comerica Incorporated Minority Scholarship: Established to recognize the academic achievement of junior and senior minority students.

Community College Scholarship: Designed to recognize the academic achievements of recently-admitted community college students, this scholarship provides students with financial support to attend the School.

The Croskey Family Academic and Athletic Endowed Scholarship: Established in honor of all past, present and future student athletes who have been and will be able to extend their talents academically and athletically while attending Wayne State University. Awarded to full-time undergraduate business students who are actively participating in a University-sponsored athletic program.

Barbara and Paul Czamanske/Compass Group Ltd. Endowed Scholarship: Designed to recognize pre-business undergraduate students for their outstanding contribution to the University in the area of student activities, leadership and service.

Delta Sigma Pi Scholarship Key: Awarded to the academically highest-ranked student in the graduating class of the School.

Jack Demmer Ford, Inc., Endowed Scholarship in Business: Established to recognize students of high scholastic achievement and strong leadership qualities who reside in the tri-county (metropolitan Detroit) area.
Charles E. Dover Endowed Scholarship in Business Administration: Recognizes excellence in scholastic achievement, leadership and character among full-time undergraduate business students. 

James D. and Shirley M. Ellis Endowed Scholarship: Recognizes undergraduate business students of high achievement who evidence financial need.

Marie Farrell-Donaldson Endowed Scholarship Fund: Recognizes accounting majors with high academic achievement and financial need.

Sidney and Jewel Fields Scholarship in Accounting: Created by the Morris and Emma Schaver Foundation, this award was established in 1988 to honor the forty-two years of service and friendship that Sidney and Jewel Fields have given to the Schaver family. Award of $2000 open to accounting majors.

Financial Executives' Institute Award for Academic Excellence: Recognizes the academically highest-ranked accounting or finance student in the December graduating class.

Sam, Leonard and Jack Fink Memorial Scholarship: Award of variable amount open to business administration students demonstrating high academic achievement.

Ford Motor Company Minority Scholarship: This scholarship is designated for academically-gifted minority business students.

Irving H. Frank Memorial Award: Established to encourage a student interested in the retail field.

Raymond M. Genick Endowed Scholarship in Small Business Management/Entrepreneurship: Awarded to an undergraduate or graduate student majoring or concentrating in small business management/entrepreneurship who exhibits excellence in scholastic and leadership efforts.

Paul A. and Mary K. Glantz Family Endowed Scholarship: recognizes full-time undergraduate students majoring in accounting.

Charles and Katherine Hagler Scholarship in Public Relations: Established in 1989 in memory of Charles and Katherine Hagler, this is an award of variable amount for recognition of an outstanding advertising/public relations student.

David D. Henry Award: Awarded to the outstanding male and female graduates of the University’s December commencement class, based upon leadership, activities and service to the University, consistent with high scholarship.

T. Norris and Vivitore Hitchman Endowed Scholarship Fund: Established to recognize scholastic achievement of students majoring in business disciplines.

George R. Husband Scholarship: Awarded to accounting majors demonstrating high academic achievement, maintaining a minimum 3.0 g.p.a.

Austin and Harriet Kaner Endowed Scholarship: Designated to recognize a student majoring in marketing who displays outstanding scholarship, leadership, and service to the School of Business Administration.

Mildred and Charles Kaye Endowed Scholarship Fund for Accounting Students: Recognizes outstanding undergraduate students majoring in accounting.

Wilfred Kean Memorial Scholarship: Established in 1989 in memory of alumnus Wilfred Kean. Designated primarily for a student enrolled in evening classes in the School. Fall semester deadline; contact the School’s Student Services Office, 103 Prentis.

KPMG/Peat Marwick—Wayne State Alumni Scholarship: Funded solely by Wayne State Alumni with Peat Marwick and Company, this award is designated for accounting majors demonstrating high academic achievement.

Carl M. Krampert Memorial Scholarship: Established to recognize business students who are employed a minimum of twenty hours per week and are in financial need.

Jack Kuzminski Memorial Scholarship: Established to recognize scholastic achievement of students majoring in finance.

Team Al Long Endowed Scholarship in Business: Established to recognize scholastic achievement and leadership efforts and to encourage continued progress for students who are graduates of Denby, Osborn, and Finney High Schools in Detroit.

Dr. Ferdinand F. Mauser Scholarship in International Marketing: Established to honor the memory of Dr. Mauser, a scholar, author, and internationalist who devoted over two decades to teaching and writing at the School of Business Administration.

MBA Association Scholarship: Funded through the generosity of the Chrysler Corporation, this scholarship is given to graduate business students who display high levels of service and scholarship.

MichCon—Leon Atchison Scholarship: Amount depends on funds available; open to any minority undergraduate student majoring in accounting, chemical engineering, mechanical engineering, or computer science, from the MichCon service area. Student must maintain a minimum 2.5 g.p.a., be a United States citizen, and demonstrate financial need. Application deadline is April 30; contact the University Office of Scholarships and Financial Aid.

Bruce E. Mullican Memorial Scholarship: Established in 1984 in memory of MBA alumnus Bruce E. Mullican. Award of variable amount, designated for students with demonstrated interest and involvement in small business management.

Robert H. Naftaly Endowed Scholarship: Created to recognize Mr. Naftaly’s service on the Wayne State Board of Governors as well as to Blue Cross/Blue Shield of Michigan, this scholarship honors students interested or involved in careers in health care administration and who display excellence in both scholarship and leadership.

Brian A. Nalepka-Sturtz Scholarship: Recognizes the scholastic achievement of business students.

Marie L. Nash Memorial Scholarship Fund: Recognizes scholastic achievement of female graduate students in the School of Business Administration.

Pre-Business Scholarship: Established through the Office of Student Services, this award recognizes a high achiever in the pre-business curriculum who shows strong potential for success in the School of Business Administration.

Aubrey C. Roberts Memorial Scholarship: Award open to accounting majors demonstrating high overall scholarship and outstanding academic achievement in accounting subjects.

Bruce H. and Rosalie Rosen Endowed Scholarship: Established to recognize a full-time undergraduate majoring in management who exhibits excellence in academics, leadership, and character.

Peter A. Schweitzer Scholarship in Marketing: Recognizes the scholastic achievement of marketing students.

Serta Restokraft / Eugene and Mignon Kraft Family Endowed Scholarship: Established to recognize scholastic achievement and continued progress of Detroit residents who intend to pursue a business or entrepreneurial career in the city of Detroit.

George M. and Mabel H. Slocum Foundation Scholarship: Award of variable amount open to marketing students of high academic achievement specializing in advertising/public relations.

David A. Stulberg Endowed Scholarship: Established to recognize scholastic achievement, to encourage continued progress, and to provide financial assistance to undergraduate business students.

William H. Volz Endowed Scholarship: Created to reward scholastic achievement and encourage continued progress for students interested in pursuing a law degree or a combined JD/MBA degree.
Louise C. Wissman Endowed Memorial Scholarship: This award recognizes African-American Detroit residents of high academic achievement who are dedicated to continued progress at Wayne State University.

Recognition Awards

American Marketing Association Award: Awarded by the Detroit Chapter to the outstanding student in marketing.

Corporate Awards: Sponsored by Detroit-area corporations who have generously provided funds to recognize Business Administration students demonstrating leadership, service and scholarship.

Dean’s Award for Outstanding Service: Award made in recognition of outstanding student service to the School of Business Administration. For information, contact the School’s Student Services Office, 200 Prentis.

Dean’s List: Each semester undergraduate students who have excelled in their academic studies are honored by placement on the Dean’s List.

Delta Sigma Pi Scholarship Award: Awarded annually to the graduating senior with the highest scholarship in business administration.

Distinguished Student Award: Established in 1981, this award is presented annually to the student who has made the greatest contributions to the School of Business Administration and to the University.

The Wall Street Journal Student Achievement Award: Awarded annually to the business administration student in the Spring graduating class with the highest grade point average.

Beta Gamma Sigma

Membership in Beta Gamma Sigma is the highest national recognition a student can receive in an undergraduate or master’s program in business. To be eligible for membership in this honor society, a student must rank in the upper five per cent of the junior class, upper ten per cent of the senior class, or upper twenty per cent of the master’s program.

SUPPORT SERVICES

and ORGANIZATIONS

Office of Student Services

The Office of Student Services is responsible for credential evaluation, admissions processing, advising, and graduation certification of business administration students. In addition, Student Services personnel prepare and distribute the Plan of Work for students enrolled in graduate and undergraduate programs.

Any student seeking academic, vocational, or personal counseling should make an appointment to see a member of the counseling staff: 577-4510 or 577-4505.

Center for International Business Studies (CIBS)

Originally chartered in 1991 as the Center for International Business Education and Research, CIBS helps to prepare globally-competent graduates through a number of activities, including: international research, curriculum development, and special symposia. CIBS Director Attila Yaprak and other faculty have been particularly involved in Eastern Europe and annually host a group of MBA students from Ukraine. For further information, call 313-577-6809.

Communications Laboratory

The Richard W. Marr Communications Laboratory provides an exciting, modern instructional facility, utilized in many business administration courses. Students have an opportunity to videotape, review and critique speeches, presentations and panel discussions required in their course work.

Institute for Organizational and Industrial Competitiveness (IOIC)

IOIC provides companies with current information about the elements of organizational competitiveness; fosters interaction among executives, policy makers and academicians; and increases the exposure of students to the opportunities and challenges confronting organizations. Through the Institute, Director Harvey Kahalas facilitates and supports research to assist companies in gaining and sustaining a competitive advantage. For further information, call 313-577-4501.

Manufacturing Information Systems Center (MISC)

The MISC serves as a resource for companies that currently use or plan to implement enterprise resource planning (ERP) systems. These software applications are designed to run and monitor a company’s major activities but are often underutilized. Based on years of work in the information systems field and international research findings, Director Arik Ragowsky has developed a model to assist manufacturing companies in better planning and using ERP systems. For further information, call 313-577-7837.

Microcomputer Facilities

The School of Business Administration has established six modern computer laboratories with a total of 135 Macintosh and IBM compatible work stations. Four serve as computer classrooms, and two are designated for student walk-in traffic.

Students have access to leading-edge technology including laser printers, the University mainframe, a color printer, a color plotter, a...
CD-ROM reader containing COMPUSTAT, a financial database, and Macintosh and IBM compatible scanners.

Currently over 800 sets of software representing more than twenty-five different software packages are available. The computer laboratories are open to business administration students seven days per week, providing students with access during both the day and evening.

Additional computer facilities at other main campus and extension center locations are also available to students.

**Professional Development Division**

**Mission Statement:** The mission of the Professional Development Division (PDD) is to provide organizations and entrepreneurs with business education, training, and consulting services of the highest quality and greatest value, thereby becoming their partner for continuous learning and creative change. To be successful in today's global market, companies must broaden their approach, develop alliances, and apply new skills to meet the challenges of today's changing business environment. PDD provides executive education and expert management, technical and training services to help organizations face those challenges and promote sustainable growth in the intensely competitive business environment. The PDD portfolio includes:

**Cutting Edge Business Courses and Programs:** Division programs respond to problems currently facing business, government, and industry. They deliver the strategies, tools, and knowledge needed to succeed in today's changing business environment. A wide variety of programs are offered in a variety of formats. Areas of PDD expertise include:
- Strategy and Development Business Re-engineering
- Communication Skills
- Customer Service
- Financial Management
- Information Systems
- ISO 9000
- Networking
- Marketing
- Purchasing Strategies
- Quality Assurance
- Management

**Certificate Programs:** PDD responds to industry’s demand for a more comprehensive approach to continuing education by offering certificate programs that encompass several of today's management and business issues in multiple-session format. The content, duration, and format of the programs are customized to meet the needs of the organization. Continuing Education Units (CEUs) may also be earned through PDD programs.

**On-Site Consulting Services:** In conjunction with training, PDD provides business solutions in the following areas:
- Total Quality Management
- Quality Strategies
- Management Audits
- Human Resources Management
- Computer Information Systems
- Strategic Business Planning
- Operations and Organization Review/Improvement
- Performance/Profitability Improvement
- Feasibility Studies
- Forecasting Industry Trends
- Customer Service Strategies
- International Linkages and Strategic Alliances

**Multimedia Training:** PDD can provide training using alternative delivery methods such as videoconferencing, on-line programs, and other computer-based programs.

**Small Business and Marketing Programs**

**Small Business Services (SBS)** focuses on the needs of potential and existing small business owners by offering two practical, step-by-step programs on how to start and run a small business. ‘Starting a PROFITABLE Small Business’ concentrates on the issues facing the aspiring entrepreneur such as: developing a business plan, pricing a product or service, and finding sources of financing. ‘Running a PROFITABLE Small Business’ helps the established small business owner develop a more prosperous enterprise by addressing problems such as increasing sales, controlling inventory and overhead, and reducing taxes.

On a national level, SBS offers the Small Business Affiliate Program, which annually trains accountants/consultants from around the country to instruct our small business programs in their own protected territories. SBS currently has seventy affiliates. For more information on Small Business Services, please call (313) 577-4353.

**Small Business Technical Assistance Services** is a program that serves the needs of the small businessperson/entrepreneur through one-on-one counseling, with emphasis on the development of business plans, cashflow projections, market research, personnel planning, and many other aspects of operating a business. Numerous training programs offer in-depth information on a variety of subjects pertaining to starting and managing a business. For further information, call (313) 577-4176.

**The Procurement Technical Assistance Center** provides eligible business clients in the Detroit area with the marketing and technical assistance needed to sell their goods and services to the Department of Defense; it also educates small business owners on marketing opportunities in the public sector. Information on government contracts, as well as educational training programs and guidance over the course of the contract from bid preparation to obtaining payment, is available. For further information, call (313) 577-4850.

**The International Business Development Center (IBDC)** helps other countries develop small business and management programs that include training and counseling. In recent years, IBDC has established centers in Eastern Europe, the former Soviet Union, and the Middle East, including: the Institute of Modern Industry, Prague; Lvov Institute of Management, Ivan Franco University, Ukraine; Krasnodar, Russia; Kuban State Polytechnical University, Novorossiysk, Russia; and Hebron University, Hebron, West Bank. For further information, call (313) 577-4176.

**Placement Services**

The School of Business Administration interacts with the University Placement Services office to assist students in finding employment both while going to school and upon obtaining their degrees. Prospective employers visit the University twice each year to recruit graduating seniors and MBA students for positions with their firms.

Career counseling and other placement services, including a career/placement library, are also available for business administration students. Some employment opportunities are posted on the Career Board located in the Prentis Building lower level.

**Student Organizations**

**Alpha Kappa Psi,** the oldest national professional fraternity, established a local chapter at Wayne State University in 1941. The fraternity seeks to enhance the personal and professional development of its members through a wide variety of activities, including frequent interaction with the business community.

**The American Marketing Association (AMA)** is an organization dedicated to the advancement of the science of marketing. Collegiate chapters promote professionalism and practical education for marketing students through exposure to, and assistance from, practitioners of the discipline.

**The Association of Black Business Students (ABBS)** was formed in the fall of 1967, to better prepare students for the business world by providing an environment for professional growth and development, through the encouragement of interaction among business students and with the business community.

**Beta Alpha Psi** is a national scholastic and professional accounting fraternity open to qualified students who have declared a concentration in accounting, finance, or information systems, and to full-time faculty of the Accounting, Finance, and Information Systems Depart-
ments. The fraternity objectives include: the promotion of the study and practice of compilation and analysis of financial information; the provision of opportunities for self-development and association among members and financial information professionals; and the encouragement of a sense of ethical, social and public responsibilities. The organization provides service to the University and metropolitan Detroit communities through its many volunteer activities.

**Beta Gamma Sigma** is the national honor society for students in business administration. The Wayne State chapter was installed in national membership in March 1979. Beta Gamma Sigma is the only scholastic honor society recognized by the American Assembly of Collegiate Schools of Business, the major accrediting body for schools of business administration. Election to membership in this honor society is the highest scholastic honor that a student in business administration can achieve. To be eligible for membership, students must rank in the upper five percent of their junior class, or the upper ten percent of their senior class, or rank in the upper twenty percent of those receiving master’s degrees. Membership is by invitation only.

**The Business Marketing Association (BMA)** is a national organization consisting of over 5000 members who hold various positions throughout the industry of business-to-business advertising and communication. The Wayne State Chapter members benefit by exposure to opportunities within the advertising industry, gaining practical experience and developing professional methods and techniques within the field. The BMA also provides opportunities for scholarships, internships, and chapter competition.

**Delta Sigma Pi**, an international professional fraternity in business administration, organized a local chapter at Wayne State University in 1949. The Wayne State Chapter seeks to enhance the educational, social, and professional experiences of its members through association with other students, faculty, and members of the professional business community.

**The Financial Management Association (FMA)** provides its members with a better understanding of the field of finance and develops relationships with practitioners in the Detroit metropolitan area. The club currently works with the National Investor Relations Institute, the Financial Analyst Society and the Economic Club of Detroit.

**Institute of Management Accountants** is a professional organization for promotion of the development of accounting students who plan careers in management accounting. Student chapter members participate fully in local professional chapter activities, sharing ideas and knowledge with experienced management accountants.

**The International Business Association (IBA)** was formed to promote an understanding of international business practices through programs and information dissemination to students. The organization aims to establish interaction between business students and the international business community.

**The Management Information Systems Association (MISA)** is a professional organization which strives to educate its members further in the practical application of computer technology and interact with leaders in the ISM field through various activities, including speakers and corporate tours. The organization welcomes members from all majors.

**The MBA Association** was established in 1987. This organization is designed to recognize outstanding MBA students and to facilitate the academic and professional development of the graduate business student population.

**National Association of Black Accountants (NABA)** is a professional organization that sponsors speaking events, and provides a linkage with the professional community.

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**The Student Senate** is the official student government body of the School of Business Administration and is composed of two representatives from each recognized Business Administration student organization, at-large members elected from the student body, Student Council representatives, other students appointed by the Dean, the faculty or School adviser, ex officio, and the Dean of the School of Business Administration, ex officio.

**Women in Business (WIB)** was established in 1991 to promote women in business and the role of business women in the community. The organization offers business seminars, mentoring, and scholarships, and is open to any student.

Additional information regarding specific student organizations can be obtained from the Business School Student Senate Office (577-4783) or the University Student Center and Program Activities Office (577-3444).
ACCOUTING

Office: 200 Rands House; 577-4530
Chairperson: Randolph C. Paschke

Professors
Charles R. Allberry (Emeritus), Gerald Alvin (Emeritus), B. Anthony Billings, Raymond J. Murphy (Emeritus), Alan Reinstein, William H. Volz

Associate Professors
Donald E. Gorton (Emeritus), Albert D. Spalding, Jr., James F. Wallis (Emeritus)

Assistant Professor
Kraig Danvers

Senior Lecturers
Susan D. Garr, Deborah Jones

Lecturers
Frank Camarra, Melvin Houston, Randolph C. Paschke

Degree Programs

BACHELOR OF SCIENCE in Business Administration with a major in accounting
BACHELOR OF ARTS in Business Administration with a major in accounting
POST-BACHELOR’S CERTIFICATE IN ACCOUNTING

Bachelor's Degrees

Admission Requirements: Admission to undergraduate degree programs in the School of Business Administration is granted to upper division students (junior and senior level) only after completion of a pre-business administration curriculum; for a list of required courses, as well as the admission policies of the School, see page 63.

DEGREE REQUIREMENTS: Candidates for the bachelor's degree must complete 124 credits including satisfaction of the degree requirements (see page 64), as well as requirements for one of the specializations listed below. All course work must be completed in accordance with the academic procedures of the University and the School which apply to this degree; see sections beginning on page 23, 38, and 63.

The accounting program is designed to prepare students for professional careers in public, corporate, or governmental accounting. While stressing fundamental accounting theory, the curriculum provides thorough coverage of the techniques accountants use to apply these concepts to practical situations. The major program in accounting employs a capstone course, ACC 5996, to assess students' knowledge of the discipline. Students who concentrate in accounting must complete the following courses:

ACC 5100 -- Asset Accounting: Cr. 3
ACC 5110 -- Equity Accounting: Cr. 3
ACC 5130 -- Accounting Systems Design and Control: Cr. 3
ACC 5160 -- Managerial Accounting: Cr. 3
ACC 5170 -- Taxes on Income: Cr. 3
ACC 5996 -- Auditing, Assurance and Attestation: Cr. 3

ACCOUNTING SPECIALIZATIONS

An accounting specialization is not required for the major in accounting; however, the specializations described below include recommended courses for students who desire further study in a particular accounting area.

Public Accounting

The courses listed below are designed to prepare students for professional careers in public accounting. They are necessary preparation for the Certified Public Accounting (CPA) Examination.

ACC 5120 -- Advanced Accounting: Cr. 3
ACC 5180 -- Governmental and Not-for-Profit Accounting: Cr. 3
ACC 5190 -- Business Law II: Cr. 3
ACC 5270 -- Advanced Tax Topics: Cr. 3

Managerial Accounting

This specialization is designed to prepare students for professional careers in corporate, governmental, and not-for-profit accounting.

ACC 5120 -- Advanced Accounting: Cr. 3
ACC 5180 -- Governmental and Not-for-Profit Accounting: Cr. 3
ACC 5190 -- Business Law II: Cr. 3
ACC 5230 -- Advanced Accounting Systems: Cr. 3
ACC 5260 -- Advanced Managerial Accounting: Cr. 3
ACC 5270 -- Advanced Tax Topics: Cr. 3

Accounting Systems

This specialization is designed to prepare students for professional careers by developing expertise in accounting systems. It incorporates several courses offered in the major in information systems management.

ACC 5230 -- Advanced Accounting Systems: Cr. 3
ISM 5820 -- Systems Analysis and Design: Cr. 3
ISM 5892 -- Database Systems: Cr. 3
ISM 5860 -- Data Communications and Networks: Cr. 3
ISM 5994 -- Software Tools for Business Applications: Cr. 3

Post-Bachelor’s Certificate in Accounting

The post-baccalaureate certificate program in accounting is designed to enable students who already hold a bachelor’s degree to obtain the required educational background to be licensed as a Certified Public Accountant in Michigan.

Admission: Students must have a bachelor’s degree in business administration or a discipline area of business administration or accounting from an accredited institution, with a grade point average of at least 2.0.

Students who have received their undergraduate degree in business administration, a discipline area of business administration, or accounting from Wayne State University should process a change in their status at the Registrar’s Office to ‘Post-Baccalaureate.’ Students who have received an undergraduate degree in these areas from another institution must complete the Application for Undergraduate Admission form and request that official transcripts be sent directly to the Office of Admissions.

CERTIFICATE REQUIREMENTS: Candidates for this certificate must successfully complete a minimum of twenty-four credits in course work at Wayne State University following completion of the bachelor’s degree, with a cumulative grade point average of not less than 2.0. Of these twenty-four credits, students must complete a minimum of six credits from courses offered by the Department of Accounting. Additionally, a minimum of twelve credits must be from courses offered within the School (Accounting, Finance, Information Systems, Marketing, and Management).

Each student’s Plan of Work will be individually designed. Students intending to use this certificate to meet the requirements for licensure as a Certified Public Accountant in Michigan will work with their

School of Business Administration 73
UNDERGRADUATE COURSES

The following courses, numbered 0990-5999 and 6100-6999, are offered for undergraduate credit. Courses numbered 6000-6090 and 7000-9999 which are offered for graduate credit only may be found in the graduate bulletin. For interpretation of numbering system, signs and abbreviations, see page 481. Students must be admitted to the School of Business Administration or receive permission from an adviser in the School to enroll in courses numbered 4000 and above.

BUSINESS ADMINISTRATION COURSES

(B A)

1010 (CT) Critical Thinking for Consumer Decisions. Cr. 3
Development of critical thinking skills and the application of these skills in evaluation and decisions for a broad range of consumer issues including advertising interpretations, purchase decisions, job applications, and consumer protection. (T)

4580 Business in the International Environment. Cr. 3
Prereq: MGT 4530 or equiv. Open only to students admitted to School of Business Administration; others by consent of instructor. Theoretical and practical rationales for international business activities and transactions between American and Japanese firms. Comparison of American and Japanese styles of management, negotiation, and decision-making. (F,W)

4590 U.S. - Japan Relations: The Business Perspective. Cr. 3
Prereq: MGT 4530 or equiv. Open only to students admitted to School of Business Administration; others by consent of instructor. Japanese business structure, culture and practice. Dynamics of business activities and transactions between American and Japanese firms. Comparison of American and Japanese styles of management, negotiation, and decision-making. (Y)

5880 U.S. - European Union Relations: The Business Perspective. Cr. 3
Open only to students admitted to the School of Business Administration; others by consent of adviser. Prereq: MGT 4530. Overview of business relations between the U.S. and EU members. Business cultures and practices of major trading partners; dynamics of business activities between U.S. and EU. History and organization of the EU; progress toward European integration. (Y)

ACCOUNTING COURSES (ACC)

3010 Elementary Financial Accounting Theory. Cr. 3
Prereq: sophomore standing. ECO 2010 and ECO 2020, MAT 1500. Introduction to financial accounting principles; preparation and interpretation of balance sheets and income statements. (T)

3020 Elementary Managerial Accounting Theory. Cr. 3
Prereq: ACC 3010 with minimum grade of C; sophomore standing. ECO 2010, ECO 2020, MAT 1500. Introduction to manufacturing and managerial accounting, analysis of cash flow and financial statements. Basic concepts of business data processing systems. (T)

3510 Business Law I. Cr. 3
Prereq: sophomore standing. Introduction to the domestic and international legal systems. Impact of the legal environment on management decision-making. Law of contracts and sales, including products liability. (T)

4500 (MGT 4500) Business Administration Co-op Assignment. Cr. 0
Offered for S and U grades only. No credit toward degree. Open only to School of Business Administration students; others by consent of adviser. Must be elected by Professional Development Co-operative Program students during work semester. Opportunity to put theory into practice on the job. Students will normally be assigned to cooperating business organizations for internship periods of one semester. (T)

4990 Directed Study in Accounting. Cr. 1-3 (Max. 6)
Prereq: 2.75 cumulative g.p.a. to be eligible; written approval on proposal form prior to registration; consent of chairperson of student's major department. Open only to School of Business Administration students; others by consent of adviser. Three credits maximum in an academic semester. Advanced readings and research or tutorial under the supervision of a faculty member in areas of special interest to student and faculty member. (T)

5100 Asset Accounting. Cr. 3
Prereq: ACC 3020. Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. Conceptual foundations of accounting principles. Analysis of various accounting theories concerning asset valuation. (T)

5110 Equity Accounting. Cr. 3
Prereq: ACC 5100. Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. Interpretation of equities in corporation assets and measurement of income. (T)

5120 Advanced Accounting. Cr. 3
Prereq: ACC 5110. Offered for undergraduate credit only. Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. Principles of design, control, and evaluation of computer-based systems for processing accounting information. Techniques for data base design and information systems auditing. (T)

5160 Managerial Accounting. Cr. 3
Prereq: ACC 3020. Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. Theory and practice of cost accumulation and analysis to facilitate managerial decisions and cost control systems. (T)

5170 Taxes on Income. Cr. 3
Prereq: ACC 3020 or 6010. Open only to School of Business Administration students; others by consent of adviser. Theory of taxes on income and practical application of related laws and regulations. (T)

5180 Governmental and Not-for-Profit Accounting. Cr. 3
Prereq: ACC 3020 or 6010. Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. Theory and practical application of accounting and management issues of governmental units and non-profit organizations. (T)

5190 Business Law II. Cr. 3
Prereq: ACC 3510 and sophomore standing. Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. Law of agency, corporations, partnerships and negotiable instruments. Professional liability. (T)

5270 Advanced Tax Topics. Cr. 3
Prereq: ACC 5170. Offered for undergraduate credit only. Open only to School of Business Administration students; others by consent of adviser. Problems and cases involving corporate organizations, gains and losses, distribution, reorganization and liquidations, partnership, estate and gift taxes. (Y)
5996 Auditing, Assurance and Attestation. Cr. 3
Prereq: ACC 5110, ISM 4400. Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. No credit after former ACC 5140. Principles and procedures of auditing; professional standards and responsibilities of the certified public accountant.

FINANCE

Office: 328 Prentis Building; 577-4520
Chairperson: Margaret Smoller

Professors
James L. Hamilton (Emeritus), Milton H. Spencer (Emeritus)

Associate Professors
Mark E. Bayless, Robert C. Bushnell (Emeritus), Mbobja Mougoue, Kelly R. Price, Margaret A. Smoller, Frank L. Voorheis (Emeritus), John D. Wagster

Senior Lecturers
Mark Copper, John Richard

Lecturers
Clinton Andrews, George Vlachos

Degree Programs

BACHELOR OF ARTS in Business Administration with a major in finance
BACHELOR OF SCIENCE in Business Administration with a major in finance

Bachelor's Degrees

Admission Requirements: Admission to undergraduate degree programs in the School of Business Administration is granted to upper division students (junior and senior level) only after completion of a pre-business administration curriculum; for a list of required courses, as well as the admission policies of the School, see page 63.

DEGREE REQUIREMENTS: Candidates for the bachelor's degree must complete 124 credits including satisfaction of the degree requirements (see page 64), as well as requirements for one of the specializations listed below. All course work must be completed in accordance with the academic procedures of the University and the School which apply to this degree; see sections beginning on page 23, 38, and 63.

SPECIALIZATIONS

Bachelor's degrees in finance are offered with two specializations: corporate finance, and financial markets and investments.

Corporate Finance

The corporate financial specialization prepares individuals for careers as financial managers in non-financial corporations. Entry level positions are generally as financial analysts or staff accountants, while potential future responsibilities include management of working capital, operating budgets, financial statement preparation, bank relationships, long-term financial planning, capital budgeting, treasury operations and stockholder relations. FIN 6996 is a capstone course that assesses students' knowledge of corporate finance. Students should complete core courses FIN 4290 and ISM 4400 before beginning the following major requirements:

ACC 5100 -- Asset Accounting: Cr. 3
FIN 5210 -- Security Analysis and Valuation: Cr. 3
FIN 5270 -- Advanced Business Finance: Cr. 3
FIN 6996 -- Corporate Financial Strategies: Cr. 3
Principles of Finance, Investment, and ISM 4400 before beginning the following major requirements:

**ACC 5100 -- Asset Accounting: Cr. 3**

FIN 4290 Business Finance: Cr. 3  
FIN 5330 -- Principles of International Business Finance: Cr. 3  
FIN 5350 -- Real Estate Finance: Cr. 3  
FIN 5370 -- Risk Management: Cr. 3  
FIN 6997 -- Derivative Securities and Portfolio Management: Cr. 3  
ACC 5110 -- Equity Accounting: Cr. 3

**Financial Markets And Investments**

This specialization prepares individuals for careers in financial institutions such as commercial banks, savings and loan associations, credit unions, insurance companies and in other financial intermediaries such as investment banking firms, security and investment brokerage houses, and security and commodity exchanges. Responsibilities within such firms are highly varied and include commercial and personal lending, branch management, security analysis, portfolio and trust management, real estate management, and insurance, commodity and security brokerage. FIN 6997 is a capstone course that assesses students' knowledge of financial markets and investments. Students should complete core courses FIN 4290 and ISM 4400 before beginning the following major requirements:

**ACC 5100 -- Asset Accounting: Cr. 3**

FIN 5210 -- Security Analysis and Valuation: Cr. 3  
FIN 5220 -- Portfolio Management: Cr. 3  
FIN 6997 -- Derivative Securities and Portfolio Management: Cr. 3

Plus two of the following:

FIN 5270 -- Advanced Business Finance: Cr. 3  
FIN 5320 -- Principles of International Business Finance: Cr. 3  
FIN 5330 -- Bank Management: Cr. 3  
FIN 5350 -- Real Estate Finance: Cr. 3  
FIN 5370 -- Risk Management: Cr. 3  
ACC 5110 -- Equity Accounting: Cr. 3

**FINANCE COURSES (FIN)**

The following courses, numbered 0990-5999 and 6100-6999, are offered for undergraduate credit. Courses numbered 6000-6090 and 7000-9999 which are offered for graduate credit only may be found in the graduate bulletin. For interpretation of numbering system, signs and abbreviations, see page 481. Students must be admitted to the School of Business Administration or receive permission from an adviser in the School to enroll in courses numbered 4000 and above.

**3050 Personal Financial Planning. Cr. 3**

Prereq: sophomore standing. Principles of finance applied to personal financial affairs. Topics include: goal formation, cash budgeting, time value of money, insurance, real estate, banking, investments, tax planning, pensions, estate planning.

**4230 Financial Markets, Institutions and Securities. Cr. 3**

Prereq: ECO 2010; ACC 3020 recommended. Open only to students admitted to the School of Business Administration; others by consent of adviser. The framework of our financial system. The role of securities, interest rates, financial markets and intermediaries in promoting savings, investments and other economic goals. The function of the money, capital and equity markets in channeling funds to business.

**4290 Business Finance. Cr. 3**

Prereq: ECO 2010, ACC 3020 and ISM 3300 or ECO 4100 or equiv. Principles of financial administration, with applications to problems of financial analysis, control, and planning by firms under changing economic conditions.

**4500 (MGT 4500) Business Administration Co-op Assignment. (ACC 4500) (MKT 4500) Cr. 0**

Offered for S and U grades only. No credit toward degree. Must be elected by Professional Development Co-operative Program students during work semester. Opportunity to put theory into practice on the job. Students will normally be assigned to cooperating business organizations for internship periods of one semester.

**4990 Directed Study in Finance. Cr. 1-3 (Max. 6)**

Prereq: 2.75 cumulative g.p.a. to be eligible; written approval on proposal form prior to registration, consent of chairperson of department in which student is majoring. Advanced readings and research or tutorial under the supervision of a faculty member in areas of special interest to student and faculty member.

**5210 Security Analysis and Valuation. Cr. 3**

Prereq: FIN 4290 or former 5290, ISM 4400 or former FIN 5400; coreq: ACC 5100. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Analysis of the investment environment; sources of investment information; measuring the risk and return of investments; security valuation models; factors influencing security prices; diversification effects on risk and return, and introduction to portfolio theory and management.

**5220 Portfolio Management. Cr. 3**

Prereq: FIN 5210 or former 6210. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Principles of portfolio construction and administration applicable to various institutions including banks, insurance companies, mutual funds, and pension trusts.

**5270 Advanced Business Finance. Cr. 3**

Prereq: FIN 5210 or former 6210. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Risk analysis, working capital management, capital budgeting and valuation theories. Role of financial management in maximizing value of the firm.

**5320 Principles of International Business Finance. Cr. 3**

Prereq: FIN 4290. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Financial management of firms dealing in international money and capital markets. Analysis of international investments, currency problems and financial aspects of exporting and importing functions.

**5330 Bank Management. Cr. 3**

Prereq: FIN 4290. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Analysis of the functional areas of management of banks and related financial institutions, including deposits, cash, loans and asset accounts. Discussion of current topics including liquidity, capital adequacy, electronic fund transfers and mortgages.

**5880 International Money and Banking in Transition Economies. (SLA 5880) Cr. 3**

Prereq: consent of instructor, upper division standing. The Communist model of investment through state-owned monopoly banks compared to new role of former monopoly banks. Financial system models of United States, Japan and Germany, and their evolution.

**5890 Internship in Finance and Business Economics. (FIN 7890) Cr. 3**

Prereq: FIN 4290, 2.5 cumulative g.p.a., prior consent of instructor. Offered for S and U grades only. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Minimum ten-page paper (excluding exhibits) discussing a problem or opportunity facing the sponsor organization, application of financial concepts, and outcomes relative to the problem or opportunity; summary presentation to department chairperson.
6996  **Corporate Financial Strategies. Cr. 3**
Prereq: FIN 5270 or former 6270. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Advanced financial strategies dealing with cost of capital, mergers and other corporate reorganizations, investment banking and capital acquisition, dividend policy, lease financing, pension funds, convertible securities, international perspectives.  
(F,W)

6997  **Derivative Securities and Portfolio Management. Cr. 3**
Prereq: FIN 5220 or former 6220. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Recent developments in futures and options. Principles and theories applicable to pricing of, and markets for, futures and options; analysis and management of financial portfolios. Principles of valuation of options and futures investments; brief review of empirical evidence.  
(F,W)

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**INFORMATION SYSTEMS and MANUFACTURING**

**Office:** 100 Rands House; 577-9145  
**Chairperson:** Joseph Tan  
**Professor**  
Joseph Tan  
**Associate Professors**  
**Lecturer**  
William Pritchard  

**Degree Program**  

*BACHELOR OF ARTS in Business Administration with a major in information systems and manufacturing*

*BACHELOR OF SCIENCE in Business Administration with a major in information systems and manufacturing*

**Bachelor’s Degree**

**Admission Requirements:** Admission to undergraduate degree programs in the School of Business Administration is granted to upper division students (junior and senior level) only after completion of a pre-business administration curriculum; for a list of required courses, as well as the admission policies of the School, see page 63.

**DEGREE REQUIREMENTS:** Candidates for the bachelor’s degree must complete 124 credits including satisfaction of the degree requirements (see page 64), as well as requirements for one of the specializations listed below. All course work must be completed in accordance with the academic procedures of the University and the School which apply to this degree; see sections beginning on page 23, 38, and 63.

Information Systems and Manufacturing (ISM) refers to the use of computer-based systems to gather and analyze complex information about all aspects of a business. This information is used by managers to make business decisions. The use of computers has spread into virtually every industry in America, and, at present, there is a great demand for information systems professionals. The major program in management information systems employs a capstone course, ISM 6997, to assess students’ knowledge of the discipline. Students specializing in ISM frequently pursue career positions as communications analysts, data base administrators, and information systems managers. Students must complete the following:

ISM 5820 -- Systems Analysis and Design: Cr. 3  
ISM 5992 -- Database Systems: Cr. 3  
ISM 5860 -- Data Communications and Networks: Cr. 3  
ISM 5994 -- Software Tools for Business Applications: Cr. 3  
ISM 6997 -- Information Systems Policy and Management: Cr. 3  
**Elective** -- Students can select specialized topics in ISM (e.g., Expert Systems, Decision Support Systems, Computer Aided Design) or an advanced programming course from the Computer Science Department.
Including ONE of the following:

CSC 1050 -- (CL) Introduction to C and UNIX: Cr. 2
(Since CSC 1050 is a two-credit course, students may need to elect an additional credit.)

CSC 2000 -- Introduction to C++: Cr. 3

CSC 2110 -- (CL) Introduction to Data Structures & Abstraction: Cr. 4

ISM 4990 -- Directed Study: Cr. 1-3

INFORMATION SYSTEMS and MANUFACTURING COURSES (ISM)

The following courses, numbered 0990-5999 and 6100-6999, are offered for undergraduate credit. Courses numbered 6000-6090 and 7000-7999 which are offered for graduate credit only may be found in the graduate bulletin. For interpretation of numbering system, signs and abbreviations, see page 481. Students must be admitted to the School of Business Administration or receive permission from an adviser in the School to enroll in courses numbered 4000 and above.

2630 (CL) Fundamental Computer Skills. Cr. 3
No credit after former ACC 2630. Introduction to management information systems, programming, data base management, spread sheets, word processing, telecommunications, graphics, electronic mail, teleconferencing, internet and applications. Material fee as indicated in the Schedule of Classes. (T)

3300 Quantitative Methods I: Probability and Statistical Inferences. Cr. 3
Prereq: MAT 1500 or higher or equiv. No business or free elective credit. Repeat of ECO 4100, STA 1020, or equiv. Measures of central tendency and dispersion. Introduction to probability; normal, binomial, exponential, and Poisson distributions. Statistical inference and sampling methods. Computer techniques. (T)

4400 Quantitative Methods II: Statistical Methods. Cr. 3
Prereq: ISM 3300 or ECO 5100 or equiv. Open only to students admitted to School of Business Administration; others by consent of adviser. Must be satisfactorily completed in first 16 credits after admission to the School. Uses of statistical techniques in business. Topics include: sampling, hypothesis testing, confidence interval estimation, regression, analysis of variance and chi-square tests. Application to accounting, market research, finance, production and forecasting, Computer techniques. (T)

4500 Business Administration Co-op Assignment. Cr. 0
Offered for S and U grades only. No degree credit. Open only to School of Business Administration Students, others by consent of instructor. Practical application of theory to on-the-job experience. Students will normally be assigned to cooperating business organization for internship periods of one semester. Must be elected by Professional Development Cooperative Program students during work semester. (Y)

4600 Production Operations Management. Cr. 3
Prereq: ISM 2630 or equiv., ISM 3300 or ECO 5100, and MGT 4510 or 4530. No graduate credit. No credit after former MGT 4600. Open only to students admitted to School of Business Administration; others by consent of adviser. Analysis of the production system. Identification of problems in a production system and solution of problems. Topics include: forecasting, production planning and scheduling, quality control, cost control and inventory control. (T)

4630 Business Information Systems. Cr. 3
Prereq: ISM 2630 or equiv. and MAT 1500 or equiv. Offered for undergraduate credit only. No credit after former ACC 4630. Open only to School of Business Administration students; others by consent of adviser. Concepts and techniques of design, use and control of computer-based systems for business data processing, office automation, information reporting, and decision-making. Material fee as indicated in the Schedule of Classes. (T)

4990 Directed Study in Information Systems and Manufacturing. Cr. 1-3 (Max. 6)
Prereq: 2.75 cumulative g.p.a.; written approval on proposal form prior to registration; consent of Chairperson of student’s major department. Open only to Business Administration students, others by consent of instructor. Advanced readings and research or tutorial under the supervision of a faculty member in areas of special interest to the student and faculty member. (Y)

5650 (MKT 5650) Purchasing Management. Cr. 3
Prereq: Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. Principles of the purchasing function. Topics include: negotiating relationship to the supply chain, quality issues, supplier section, quantity and delivery, and price determination. Strategic, ethical, legal, international issues. (Y)

5820 Systems Analysis and Design. Cr. 3
Prereq: ISM 4630. No credit after former ACC 5820. Open only to School of Business Administration students; others by consent of adviser. Structured, formal approach to information systems development. Analysis, logical requirements specification, general and detailed design, control, and implementation of information systems. Technical and managerial factors. (T)

5860 Data Communications and Networks. Cr. 3
Prereq: ISM 5820. No credit after former ACC 5993. Open only to School of Business Administration students; others by consent of instructor. Data communication concepts and terminology, communication system design approaches, data communications standards, data communications software and hardware, network architecture, distributed management information systems. (Y)

5890 Internship in Information Systems and Manufacturing. Cr. 3
Prereq: ISM 4630 and consent of instructor; open only to School of Business Administration students, others by consent of advisor. Offered for undergraduate credit only. Written assignments discussing problem or opportunity facing the sponsor organization; application of information systems and manufacturing concepts, and outcomes relative to the problem or opportunity; summary presentation to the Department Chairperson. (Y)

5992 Data Base Systems. Cr. 3
Prereq: ISM 4630. No credit after former ACC 5992. Open only to School of Business Administration students; others by consent of instructor. Analysis of effective use of data base management systems for processing management information; design and administration of systems. Material fee as indicated in the Schedule of Classes. (Y)

5994 Software Tools for Business Applications. Cr. 3
Prereq: ISM 5820. No credit after former ACC 5994. Open only to School of Business Administration students; others by consent of instructor. Application of software to business information processing and decision-making. Alternative programming languages, non-procedural languages and application generators, customizing application packages. Role of the end-user. (Y)

5995 Global Issues in Information Systems. Cr. 3
Prereq: ISM 4360. Opportunities and problems of managing global information systems and information resources across national borders, time zones, and cultures. (Y)

6997 Information Systems Policy and Management. Cr. 3
Prereq: ISM 5992 or ISM 5860. Must be elected in final sixteen credits of ISM curriculum. No credit after former ACC 6997. Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. Within overall structure of the systems approach, this capstone course integrates the managerial, technical, and strategic planning and control concepts, and techniques necessary for the management of information systems. (Y)
MANAGEMENT

Office: 328 Prentis Building; 577-4515
Interim Chairperson: Barbara Price

Professors
Bruce E. DeSpelder (Emeritus), Victor C. Doherty (Emeritus), Yitzhak Fried, Harvey Kahalas, James E. Martin, John G. Maurer (Emeritus), Richard O. Osborn, Irvin D. Reid

Associate Professors
Edwin F. Harris (Emeritus), Catherine Kirchmeyer, Thomas J. Naughton, Harvey Nussbaum (Emeritus), Donald H. Palmer (Emeritus), Irving Paster (Emeritus), Fred P. Unruh (Emeritus), Alice Schnoor (Emeritus)

Assistant Professors
Joan Penner-Hahn, Eric Tsang

Senior Lecturers
Ariel S. Levi, Paul Reagan, Linda Slowik, Sandra Williams

Lecturers
Christine Miller, William Spaulding

Degree Programs
BACHELOR OF ARTS in Business Administration with a major in management
BACHELOR OF SCIENCE in Business Administration with a major in management

Bachelor’s Degrees
Admission Requirements: Admission to undergraduate degree programs in the School of Business Administration is granted to upper division students (junior and senior level) only after completion of the pre-business administration curriculum; for a list of required courses, as well as the admission policies of the School, see page 63.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 124 credits including satisfaction of the degree requirements stated on page 64, as well as the management core courses and requirements for one of the specializations listed below. All course work must be completed in accordance with the academic procedures of the University and the School which apply to these degrees; see sections beginning on page 23, 38, and 63.

Management Core
The management major prepares individuals to compete in a technology-intensive manufacturing or service economy. The required courses have students analyze contemporary management problems involving organizational design, organization learning, technology management, team projects, managing diversity, quality management, and the development and management of alliances in a global marketplace.

Core Courses: Students specializing in general management, operations management, human resource management and labor relations, and small business/entrepreneurship will complete the following three core courses, and then select from the designated courses in the area of specialization listed below.

MGT 5510 -- Advanced Organizational Theory: Cr. 3
MGT 5530 -- Advanced Organizational Behavior: Cr. 3
MGT 6995 -- Seminar in Management: Cr. 3

SPECIALIZATIONS
Bachelor’s degrees in management are offered in the following two specializations: General Management, and Human Resource Management and Labor Relations.

General Management
This specialization focuses on the overall skills required of managers. It is the broadest of the four specializations. Students complete three courses from the following:
MGT 5540 -- Managing Diversity: Cr. 3
MGT 5650 -- The Entrepreneur and Venture Creation: Cr. 3
MGT 5660 -- Managing Small & Emerging Enterprises: Cr. 3
ISM 5680 -- Operations Strategy in a Global Environment: Cr. 3
MGT 5700 -- Human Resource Management: Cr. 3
MGT 5740 -- Collective Bargaining: Cr. 3
MGT 5770 -- Advanced Human Resource Management: Cr. 3
MGT 5780 -- Designing Compensation & Reward Systems: Cr. 3
ISM 5996 -- Advanced Topics in Operations Management: Cr. 3

Human Resource Management and Labor Relations
This specialization prepares students for positions in human resource management and/or labor relations in a variety of public and private sector organizations, including business, labor, non-profit enterprises and government. Students complete three of the following:
MGT 5700 -- Human Resource Management: Cr. 3
MGT 5740 -- Collective Bargaining: Cr. 3
MGT 5770 -- Advanced Human Resource Management: Cr. 3
MGT 5780 -- Designing Compensation and Reward Systems: Cr. 3

MANAGEMENT COURSES (MGT)
The following courses, numbered 0990-5999 and 6100-6999, are offered for undergraduate credit. Courses numbered 6000-6090 and 7000-9999 which are offered for graduate credit only may be found in the graduate bulletin. For interpretation of numbering system, signs and abbreviations, see page 481. Students must be admitted to the School of Business Administration or receive permission from an adviser in the School to enroll in courses numbered 4000 and above.

4500 Business Administration Co-op Assignment. (ACC 4500) (FIN 4500) (MKT 4500) Cr. 0
Offered for S and U grades only. No credit toward degree. Must be elected by Professional Development Co-operative Program students during work semester. Opportunity to put theory into practice on the job. Students will normally be assigned to cooperating business organizations for internship periods of one semester. (Y)

4510 Organizational Structure. Cr. 3
Prereq: PSY 1010 or PSY 1020. No graduate credit. Effect of the organization’s size, type of technology employed, goals and strategy, and external environment on the design of an effective organization structure. Influence of organization structure on: innovations and change, information and control, decision-making, authority, power and politics, intergroup relationships, culture, and organization learning and renewal. (T)

4520 Managing Organizational Behavior. Cr. 3
Prereq: PSY 1010 or PSY 1020. No graduate credit. Dynamics of behavior in organizational settings, at the individual, interpersonal, and group levels. A problem-solving approach to management with emphasis on interpersonal and group skills. Topics include: motiva-
4530  Management of Organizational Behavior. Cr. 3
Prereq: PSY 1010 or 1020. No credit after MGT 4510 or 4520. Applied issues in management examined through a focus on the organization and its external environment, group functions and processes, and employee attitudes and behaviors. (T)

4890  Social and Political Influences on Business. Cr. 3
Prereq: MGT 4510 or consent of instructor. Open only to students admitted to School of Business Administration; others by consent of adviser. Influence of the external environment on the corporation. Roles and responsibilities of business persons, public policy issues, corporate governance; and application of ethical reasoning to contemporary issues in business. (T)

4990  Directed Study in Management. Cr. 1-3 (Max. 6)
Prereq: 2.75 cumulative g.p.a.; written approval on proposal form prior to registration; consent of major chairperson. Advanced readings and research or tutorial under the supervision of a faculty member in areas of special interest to student and faculty member. (T)

5510  Advanced Organizational Theory. Cr. 3
Prereq: MGT 4510 or 4530. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Analysis of strategic pressures on the organization. Application of advanced concepts of structured organizational change to contemporary organizational design problems. (F,W)

5530  Advanced Organizational Behavior. Cr. 3
Prereq: MGT 4520 or 4530. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Analysis and application of advanced organizational behavior concepts relevant to managing in a complex and changing environment. Topics include: leading and managing organizational change; solving workplace problems creatively; communicating effectively in a diverse work environment; building and empowering effective teams. (F,W)

5540  Managing Diversity. Cr. 3
Prereq: MGT 4520 or 4530 or senior standing. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Managing an increasingly diverse work force from an organizational or structural perspective. Students complete a case study of an organizational setting. (Y)

5650  The Entrepreneur and Venture Creation. Cr. 3
Prereq: ACC 3010, FIN 4290, MGT 4510 or 4530, MKT 4350. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Nature of entrepreneurship and the role of the entrepreneur in American society. Focus on the critical factors and special problems associated with the process of creating new business ventures. Emphasis on development of a business plan. (Y)

5660  Managing Small and Emerging Enterprises. Cr. 3
Prereq: ACC 3010, FIN 4290, MGT 4510 or 4530, MKT 4300. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Differences between small and large company environments and problems. Focus on knowledge and skills required for efficient and effective small business management; emphasis on technology-intensive enterprises. Selected students may replace library research project with an actual small business counseling project. (T)

5700  Human Resource Management. Cr. 3
Prereq: MGT 4510 and 4520 or 4530 or consent of instructor. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Theories, policies, procedures and practices in employment relationships. Topics include: job design, employment planning, selection, training and development, performance appraisal, compensation, labor relations and affirmative action within the legal parameters set forth by the Federal and state governments. (T)

5740  Collective Bargaining. Cr. 3
Prereq: MGT 4510 and 4520 or 4530, or consent of instructor. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Development of union-management relationships, including legal environment of labor relations; philosophy and practice of collective bargaining. A bargaining simulation is normally utilized. (T)

5770  Advanced Human Resource Management. Cr. 3
Prereq: MGT 5700 or consent of instructor. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. In-depth study of selected areas within the personnel function such as selection, performance appraisal and compensation; emphasis on application of human resource management theory. Specific personnel techniques discussed and utilized. (F,W)

5780  Designing Compensation and Reward Systems. Cr. 3
Prereq: nine credits in personnel and industrial relations. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Investigation of principles of design and implementation of employee compensation and reward systems; two-tier wage systems, merit pay, pension benefits. (Y)

6890  Business Policy. Cr. 3
To be taken after completion of core curriculum and as one of the last five courses toward bachelor's degree. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Development of conceptual and administrative skills required of managers in their strategy determination, policy formulation, and policy implementation roles. Managing the firm as an integrated unit under conditions of uncertainty. Integration of concepts and skills covered in previous specialized courses. (T)

6995  Seminar in Management. Cr. 3
Prereq: MGT 5510, 5530, six additional credits in management courses. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Advanced topics in organizational behavior, organization theory, human resource management, operations management from strategic and global perspective. (Y)
MARKETING

Office: 300 Prentis Building; 577-4525
Chairperson: Frank Carmone

Professors
Richard F. Beltramini, Hugh M. Cannon (Adcraft Club/ Simons—Michelson Professor in Advertising), Frank Carmone, J. Patrick Kelly (Kmart Chair in Marketing Emeritus), Irvin D. Reid, Edward A. Riordan, Jone M. Rymer, Attila Yaprak

Associate Professors
John D. Beard, Mary S. Irwin (Emerita), George C. Jackson, Leon R. Klein (Emeritus), James T. Low, Louis L. Stern (Emeritus), Jeffrey J. Stoltman, David L. Williams

Degree Programs
BACHELOR OF ARTS in Business Administration with a major in marketing

BACHELOR OF SCIENCE in Business Administration with a major in marketing

BACHELOR OF ARTS in Business Administration with a major in business logistics

BACHELOR OF SCIENCE in Business Administration with a major in business logistics

Bachelor's Degrees
Admission Requirements: Admission to undergraduate degree programs in the School of Business Administration is granted to upper division students (junior and senior level) only after completion of a pre-business administration curriculum; for a list of required courses, as well as the admission policies of the School, see page 63.

DEGREE REQUIREMENTS: Candidates for the bachelor's degree must complete 124 credits including satisfaction of the degree requirements stated on page 64, as well as the requirements for one of the specializations listed below. All course work must be completed in accordance with the academic procedures of the University and the School which apply to these degrees; see sections beginning on page 23, 38, and 63.

Marketing Major
The marketing major is designed to prepare students for a variety of careers in marketing. As a complement to the basic major, students may elect to pursue specializations in advertising, automotive marketing, business logistics, international marketing, marketing management, personal selling and sales management, and retailing. Furthermore, within the marketing management specialization, students can develop customized specializations such as health care marketing, marketing of the arts, and sports marketing.

Note that course offerings in support of marketing specializations are subject to demand. If they are not available at times convenient for individual student registrations, students can make appropriate substitutions in consultation with their adviser.

All students majoring in marketing must complete the requirements of their specializations and subsequently take MKT 6996, Marketing Policy.

Advertising/Marketing Communications
This specialization prepares students for work in a wide variety of businesses, advertising agencies, public institutions, and other organizations. It may serve as a background for people who plan to work in the advertising/marketing communications industry, or for general marketing jobs where promotional issues play a particularly prominent role. Required courses include:

MKT 5490 -- Principles of Advertising: Cr. 3
MKT 5410 -- Marketing Research and Analysis: Cr. 3
MKT 5450 -- Consumer Behavior: Cr. 3
MKT 6996 -- Marketing Policy: Cr. 3

Two electives chosen from the following:
MKT 5500 -- Advertising Copy: Cr. 3
MKT 5510 -- Advertising Media Planning: Cr. 3
MKT 5520 -- Public Relations: Cr. 3
MKT 5850 -- Promotional Strategy: Cr. 3

Automotive Marketing
This specialization is designed to prepare students for careers in automotive marketing at the corporate, wholesale or retail levels. This specialization addresses the unique role played by the automotive industry in Detroit. It draws on the singular expertise of local automotive firms as well as Wayne State University, and addresses the numerous employment opportunities available in the southeast Michigan market. Required courses include:

MKT 5820 -- Marketing in the Automotive Industry: Cr. 3
MKT 5410 -- Market Research and Analysis: Cr. 3
MKT 5450 -- Consumer Behavior: Cr. 3
MKT 6996 -- Marketing Policy: Cr. 3

Two electives from a Departmental list including:
MKT 5700 -- Retail Management (highly recommended): Cr. 3
BLG 5620 -- Business Logistics Management (highly recommended)

International Marketing
This specialization is designed to help prepare students for careers in global enterprises and government agencies which focus on issues of international commerce. In this specialization students learn to develop comprehensive and integrated marketing programs for products and services targeted to consumers in all parts of the world. Required courses include:

MKT 5750 -- International Marketing Management: Cr. 3
MKT 5450 -- Consumer Behavior: Cr. 3
MKT 6996 -- Marketing Policy: Cr. 3

Three elective courses from a Departmental list

Marketing Management
This specialization is designed to provide students with broad exposure to the discipline of marketing management. In addition to the general focus on marketing management, the marketing management specialization provides a vehicle for designing a program directed toward a specific occupation or industry such as, health care, marketing in the arts, and sports marketing. Required courses include:

MKT 5410 -- Marketing Research and Analysis: Cr. 3
MKT 5450 -- Consumer Behavior: Cr. 3
MKT 6996 -- Marketing Policy: Cr. 3

Three elective courses from a Departmental list
Personal Selling and Sales Management
This specialization addresses the needs of students interested in the large and highly rewarding field of personal selling and sales management. Required courses include:
MKT 5460 -- Sales Management: Cr. 3
MKT 5650 -- Purchasing Management: Cr. 3
MKT 6996 -- Marketing Policy: Cr. 3
Three electives from a departmental list, including:
BLG 5620 -- Business Logistics Management (highly recommended)

Retail Management
This specialization is designed to prepare students interested in careers in, or related to, retail or wholesale organizations. As markets mature, they become saturated with competitively similar products. This increases the importance of the retailer in the marketing process since he/she controls the availability of products to the consumer. The retailing specialization addresses the needs of students anticipating careers in this marketing process either at the wholesale or retail level. Required courses include:
MKT 5700 -- Retail Management: Cr. 3
MKT 5450 -- Consumer Behavior: Cr. 3
MKT 5650 -- Purchasing Management: Cr. 3
MKT 6996 -- Marketing Policy: Cr. 3
Two electives from a Departmental list, including:
BLG 5620 -- Business Logistics Management (highly recommended)

Business Logistics Major
This major focuses on the management of the flow of goods and information from the source of raw materials through the channels of distribution to the final consumer, and beyond, to recycling and disposal. In today's highly competitive environment, the management of transportation, inventory, product planning and scheduling, and information flows are ever more critical to an organization's ability to satisfy customers and create a competitive advantage. This is reflected in an increasing number of jobs in logistics management. Required courses include:
BLG 5600 -- Transportation and Distribution Management: Cr. 3
BLG 5620 -- Business Logistics Management: Cr. 3
BLG 6997 -- Business Logistics Analysis and Planning: Cr. 3
Three electives from a Departmental list, including:
MKT 5650 -- Purchasing Management (highly recommended): Cr. 3

UNDERGRADUATE COURSES
The following courses, numbered 0900-5999 and 6100-6999, are offered for undergraduate credit. Courses numbered 6000-6090 and 7000-9999 which are offered for graduate credit only may be found in the graduate bulletin. For interpretation of numbering system, signs and abbreviations, see page 481. Students must be admitted to the School of Business Administration or receive permission from an adviser in the School to enroll in courses numbered 4000 and above.

MARKETING COURSES (MKT)
4300 Marketing Management. Cr. 3
Prereq: ECO 2010. Planning the marketing program within social, economic and legal environments. Market segmentation and behavior, market systems and strategy, international marketing. (T)

4330 (WI) Business Communication. Cr. 3
Prereq: successful completion of English Proficiency Examination in Composition. Open only to students admitted to the School of Business Administration. Fundamental principles and skills of business communication, both written and oral. Systematic procedures for designing and preparing professional documents (especially reports) and oral presentations. Material fee as indicated in the Schedule of Classes. (T)

4350 Marketing Analysis and Decision Making. Cr. 3
Prereq: MKT 4300 and ISM 4400. Open only to students admitted to School of Business Administration; others by consent of adviser. Application of marketing principles in the analysis of problems in the areas of marketing objectives, and product, price, promotion and distribution strategy. (T)

4500 (MGT 4500) Business Administration Co-op Assignment. (ACC 4500) (FIN 4500) Cr. 0
Offered for S and U grades only. No credit toward degree. Must be elected by Professional Development Co-operative Program students during work semester. Opportunity to put theory into practice on the job. Students will normally be assigned to cooperating business organizations for internship periods of one semester. (T)

4990 Directed Study in Marketing. Cr. 1-3 (Max. 6)
Prereq: 2.75 cumulative g.p.a.; to be eligible; written approval on proposal form prior to registration; consent of chairperson of student's major department. Advanced readings and research or tutorial under the supervision of a faculty member in areas of special interest to student and faculty member. (T)

5410 Marketing Research and Analysis. Cr. 3
Prereq: MKT 4300, ISM 4400. Open only to students admitted to School of Business Administration; others by consent of instructor. Methods of gathering and analyzing data which will facilitate the identification and solution of marketing problems. Planning the project, data sources for exploratory and conclusive research, Questionnaire construction, sample design, and design of marketing experiments. (T)

5450 Consumer Behavior. Cr. 3
Prereq: MKT 4300. Open only to students admitted to School of Business Administration; others by consent of adviser. Concepts and theories to explain consumer and organizational buyer behavior. Application of this understanding to marketing management and public policy decision making. (T)

5460 Sales Management. Cr. 3
Prereq: MKT 4300. Open only to students admitted to School of Business Administration; others by consent of adviser. Organization and direction of a sales organization including selection, training, compensation, supervision, motivation, budgets, quotas, territories, and sales analysis. (T)

5490 Principles of Advertising. Cr. 3
Prereq: MKT 4300. Open only to students admitted to School of Business Administration; others by consent of adviser. Advertising principles relevant to a wide variety of organizations; research, advertising copy, layout; media of advertising; advertising management of departments and agencies; campaign strategy; budgeting, and testing effectiveness. (T)

5510 Advertising Media Planning. Cr. 3
Prereq: MKT 4500 or consent of instructor. Open only to students admitted to School of Business Administration; others by consent of adviser. Influence of marketing, creative and media objectives upon media planning. Information systems, budgeting approaches, media characteristics, media models, schedule construction, execution, and auditing. (F,W)

5520 Public Relations of Business. Cr. 3
Philosophy of public relations of business, history of public relations, study of public opinion, the public relations process, tools of communication, uses of mass media in public relations work, and analysis of methods employed in establishing sound public relations programs. (T)
5650 Purchasing Management. (ISM 5650) Cr. 3
Prereq: Open only to School of Business Administration students; others by consent of adviser. Offered for undergraduate credit only. Principles of the purchasing function. Topics include: negotiating, relationship to the supply chain, quality issues, supplier section, quantity and delivery, and price determination. Strategic, ethical, legal, international issues. (Y)

5700 Retail Management. Cr. 3
Prereq: MKT 4300. Open only to students admitted to School of Business Administration; others by consent of adviser. Retailing concepts and problems. Competitive structure, store location, organization, buying, inventory control, sales promotion, pricing, credit policy, customer services, research and franchising. (F,W)

5750 International Marketing Management. Cr. 3
Prereq: MKT 4300. Open only to students admitted to School of Business Administration; others by consent of adviser. The sociopolitical-legal-economic environment of international marketing operations, cross-national consumer behavior, international marketing research, forms of international involvement, direct foreign investment; international product, pricing, distribution and promotion policies; world trade patterns, trade policy, multinational corporations and the world economy. (Y)

5820 Marketing in the Automotive Industry. Cr. 3
Prereq: MKT 4300. Open only to students admitted to School of Business Administration; others by consent of adviser. Offered for undergraduate credit only. Topics include: history, brand management, customer perception of satisfaction and quality, organizational issues. Corporate, retail, and wholesale levels. (Y)

5830 Business in Transition in the Emerging Republics. (SLA 5830) Cr. 3
Prereq: upper division standing, consent of instructor. Comparative review of economic liberalization and transformation in socialist and market economies. Analysis of liberalization attempts and outcomes; ethical norms and dilemmas occurring in transitional economies. (Y)

5840 Special Topics on Economic Transition in Emerging Republics. (SLA 5840) Cr. 3
Issues in Eastern Europe’s transition from a centrally-controlled command economy to a free-market economy. Topics include: infrastructure reform, decentralization and privatization, the banking system, reforms and changes in social structures. (Y)

5850 Promotion Strategy. Cr. 3
Prereq: MKT 4300. Open only to students admitted to School of Business Administration; others by consent of adviser. Development of integrated strategies, plans and programs in advertising, personal selling, publicity and promotion, and their implementation in the overall marketing effort. (T)

5860 The Cultural Environment of Ukrainian Business. (UKR 5860) Cr. 3
Prereq: upper division standing, consent of instructor, Culture and history of the Newly Independent States (NIS). History, past cultural achievements, commercial evolution in Ukraine as compared to other cultures. Topics include: Stalinist repression, Kruschev thaw, 1960s Renaissance, implosion of Soviet empire. (Y)

5890 Internship in Marketing. Cr. 3
Prereq: 3.0 g.p.a.; MKT 4300; consent of instructor prior to enrollment. Offered for S and U grades only. Open only to marketing undergraduate students. Offered for undergraduate credit only. Required paper (minimum ten pages) discussing: problem or opportunity facing sponsor organization; application of marketing concepts; outcomes relative to identified problem or opportunity. Presentation to class summarizing internship experience. (T)

6996 Marketing Policy. Cr. 3
Prereq: MKT 4300, 4330, five additional courses in marketing concentration and core courses. Open only to marketing majors. Offered for undergraduate credit only. Capstone course in the marketing sequence; includes four components designed to develop skills in planning of development of strategies to solve marketing problems. (T)

BUSINESS LOGISTICS COURSES (BLG)

5600 Transportation and Distribution Management. Cr. 3
Prereq: MKT 4300. Open only to students admitted to School of Business Administration; others by consent of instructor. Management of the movement of raw materials and finished products including the development of transportation strategies and objectives, and the selection of modes and carriers. Emphasis upon the interface of transportation policies with production and marketing plans. (F)

5620 Business Logistics Management. Cr. 3
Prereq: MKT 4300. Open only to students admitted to School of Business Administration; others by consent of adviser. Management of flow of materials and information from source of raw materials through the supply chain to the consumer, and beyond to disposal and recycling. (F)

6997 Business Logistics Analysis and Planning. Cr. 3
Prereq: BLG 5600 and BLG 5620. Open only to students admitted to School of Business Administration; others by consent of adviser. Application and synthesis of logistical concepts to solve problems encountered in the management of the supply chain. (F)
COLLEGE OF EDUCATION

DEAN: Paula C. Wood
Foreword

The College of Education at Wayne State University is located in, and serves the needs of, one of the nation’s largest metropolitan areas. Thus, the College reflects the dynamic character of urban life, and, in its concern with urban problems, places great faith in education as the means by which human circumstances can be improved. To this end, the College prepares educators who have the knowledge, commitment and competence to help young people achieve academic success, preserve individuality, develop democratic values, and find self-fulfillment.

Professional field experiences are an important aspect of the preparation program; they bring the prospective teacher face-to-face with the realities of the classroom, the school and the community, as well as provide opportunities for participation in the study, research and analysis of contemporary educational issues. These field experiences occur in numerous school districts and cultural institutions throughout the metropolitan Detroit area.

As society has been altered by such factors as the development of knowledge, technological advances and population growth, the purposes and processes of education have changed. New technologies of instruction are evolving rapidly and offer the prospective teacher many opportunities for developing a high level of teaching competence. Problems generated in our urban society are complex, and those related to education are no exception. Yet, the opportunities for curriculum innovation, experimentation and leadership have never been greater.

Accreditation

The programs of the College of Education have been accredited by the North Central Association of Colleges and Secondary Schools. The College has been reaccredited regularly since that time. Full accreditation for its programs was again granted in 1997 for a seven-year period. In addition, Wayne State University is accredited by the North Central Association of Colleges and Secondary Schools.

Degrees and Certificates

BACHELOR OF ARTS in Education
   with majors in the following areas:
   Art Education
   Career and Technical Education— Secondary
   Elementary Education
   English Education— Secondary
   Health Education
   Kinesiology
   Mathematics Education— Secondary
   Science Education— Secondary
   Social Studies Education— Secondary
   Special Education— with concentrations in
      Speech Impaired
      Mentally Impaired
   Speech Education— Secondary

BACHELOR OF SCIENCE in Education
   with majors in the areas listed above

*Masters of Arts in Teaching Majors
- Elementary Education — with concentrations in
  Bilingual-Bicultural Education
  Early Childhood Education
  General Elementary Education
  Kinesiology
- Secondary Education — with concentrations in
  Art Education
  Bilingual-Bicultural Education (Minor)
  Career and Technical Education
  English Education
  Foreign Language Education
  Kinesiology
  Mathematics Education
  Science Education
  Social Studies Education

*Masters of Arts with majors in
- Counseling
- School and Community Psychology
- Sports Administration
- Rehabilitation Counseling and Community Inclusion

*Masters of Education with majors in
- Art Education
  Bilingual-Bicultural Education — with concentration in
    English as a Second Language
  Bilingual Education
  Career and Technical Education
  Counseling
  Early Childhood Education
  Educational Leadership
  Educational Psychology
  Educational Sociology
- Elementary Education — with concentrations in
  Early Childhood Education
  Language Arts and Reading
  Literature for Children
  Mathematics Education
  Science Education
  Social Studies Education
- English Education (Secondary) — with concentrations in
  English Education
  English as a Second Language
  Evaluation and Research
- Foreign Language Education (Secondary)— with concentrations in
  Foreign Language Education
  English as a Second Language
- Health Education
- History and Philosophy of Education
- Instructional Technology
- Kinesiology
- Mathematics Education
- Reading
- Science Education
- Social Studies Education— Secondary
- Special Education — with concentrations in
  Early Childhood
  Emotionally Impaired
  Mentally Impaired
  Learning Disabilities

*Education Specialist Certificates
   with concentrations in
- Counseling
- Curriculum and Instruction — with concentrations in:
  Bilingual-Bicultural Education
  Career and Technical Education
  Elementary Education

* For specific requirements, see the Wayne State University Graduate Bulletin.
Elementary Education
English Education
Mathematics Education
Science Education
Secondary Education
Social Studies Education
General Administration and Supervision
Instructional Technology
Reading, Language and Literature
Special Education

*DOCTOR OF EDUCATION and DOCTOR OF PHILOSOPHY with majors in
Counseling
Curriculum and Instruction — with concentrations in
Art Education
Bilingual-Bicultural Education (Ed.D. only)
Career and Technical Education
Early Childhood Education
Elementary Education
English Education— Secondary
Foreign Language Education— Secondary
K-12 Curriculum
Mathematics Education
Science Education
Secondary Education
Social Studies Education— Secondary
Educational Psychology
Evaluation and Research
General Administration and Supervision
Instructional Technology
Reading, Language and Literature (Ed.D. only)
Special Education

* For specific requirements, see the Wayne State University Graduate Bulletin.

ACADEMIC REGULATIONS

For complete information regarding academic rules and regulations of the University, students should consult the General Information section of this bulletin, beginning on page 5. The following additions and amendments pertain to the College of Education.

Normal Program Load
The normal undergraduate student load is sixteen credits per semester. Only in exceptional cases is a student allowed to elect a heavier program. Approval of the adviser and authorization by the Director of the Division of Academic Services must be secured in those cases where the student petitions to carry more than eighteen credits within a full semester.

If a significant portion of a student's time is spent in outside work, corresponding adjustments must be made in his/her college schedule. Undergraduate students who are working full time may elect a maximum of eight credits with approval of the adviser.

Readmission
Following an Interruption in Residence
Undergraduate students whose attendance at Wayne State has been interrupted for three or more years will be required to apply at the College of Education Division of Academic Services for readmission to the College. Deadline dates for such applications are the same as those for regular admission to the College. In instances of prolonged absences of five years or more, it may be necessary to revalidate credits, either through examinations or refresher courses, within the student's major and the professional education sequences.

Attendance
Regularity in attendance and performance is necessary for success in college work. Although there are no officially excused absences as far as College policy is concerned, the conscientious student is expected to explain absences to the instructor. Such absences may be due to illness; to participation in inter-college activities certified by the sponsoring faculty member; or other similar types of absence for which the student can present to the instructor evidence that he/she was engaged in authorized University activities. Each instructor, at the beginning of the course, will announce his/her attendance requirements.

Transferred Credits
and Residence Requirements
College credits earned in accredited institutions other than Wayne State University may be transferred by an undergraduate to apply toward meeting requirements for degrees and teaching certificates in the College, provided (1) the student has been accepted as a matriculated student in the College, (2) the grades received in courses where transfer is desired have been satisfactory, and (3) credits so earned are applicable to the student's curriculum.

In general, a maximum of fifteen credits may be earned by correspondence and extension courses and applied toward an undergraduate degree.

An applicant for a degree from the College must complete at least thirty credits as a registered student in the College.

During the senior year, not more than ten transfer credits may be accepted. The student must be in residence during the semester in which he/she completes requirements for graduation.

When the student has a degree from an accredited institution and is meeting the requirements of the College for a Michigan Provisional
Probation and Withdrawal

If, at any time, an undergraduate’s scholastic average falls below 2.5, the student is automatically placed on probation. If the general average is acceptable but work in professional courses, especially in student teaching is unsatisfactory, the student may be placed on probation. Before registering for subsequent work in the College, a student on probation must secure approval from the Office of Academic Services, 469 Education Building. The College reserves the right to ask a student to withdraw at any time from specific courses or from the College entirely, if progress does not warrant continuance.

Services to Students

ADVISING: Counselors in the Academic Services Office may act as temporary advisers for students who have not been assigned permanent advisers or who have special needs. Usually, the counselors act as advisers for in-service teachers working for professional certification and for those seeking additional certificate endorsements.

Freshman and sophomore students enrolled in the pre-teaching curriculum prior to admission to the College of Education are advised by the University advising staff located in 1600 Adamany Library.

Each student admitted to the College at the undergraduate level is assigned to a faculty member who acts as the adviser. The adviser guides the student in the selection of courses and counsels the student in solving problems.

EDUCATION PLACEMENT OFFICE: This office serves graduates of the College who have completed initial teacher-preparation or advanced graduate programs, and in-service teachers enrolled either now or previously in the University. All persons qualifying for teachers’ certificates are urged to register with this office.

Close contact is maintained with school systems in Michigan and in other states. Attempts are made to keep informed of current trends in teacher supply and demand. College and university staff vacancies for professional positions throughout the United States are also listed with this office.

Scholarships

Scholarships listed below are available to students enrolled in the College of Education whose cumulative grade point average is a minimum 3.0 (unless stated otherwise). Interested students may obtain application forms and additional information from the Office of the Dean, 441 Education. Refer to application form for deadline date.

Art Education Students:

Art Education Alumni Scholarship: Award of $350 per semester open to students who have established a record of at least one semester in the Art Education program; consideration given to financial need, scholastic achievement, character.

Murray A. Douglas Memorial Scholarship: Award of $500 open to art education majors, undergraduate or post-degree, with at least twelve credits earned in methods and material courses, who have demonstrated excellence in art education studies for at least one semester and show outstanding potential as an art teacher, good character, and leadership ability.

Freda A. Harrington Endowed Memorial Scholarship: Award of $500 open to art education majors, undergraduate or post-degree, with at least twelve credits earned in methods and material courses, who have demonstrated excellence in art education studies for at least
one semester and show outstanding potential as an art teacher, good character, and leadership ability.

Mildred J. Lyman Endowed Memorial Scholarship: Award of varying amount, open to full- or part-time graduate or undergraduate students in the Art Education program, with a cumulative grade point average of at least 3.0; recipient may be eligible for repeat awards.

Clarice O. Percoux Endowed Memorial Scholarship: Award of $500 open to full- or part-time art education majors or students accepted for study in the College of Education Art Education program, with scholastic achievement, qualities of leadership, and financial need.

Earl A. Weiley Endowed Memorial Scholarship: Award of $500 per academic year open to art education majors, undergraduate or post-degree, with at least twelve credits in Art Education methods and material courses, who have demonstrated excellence in the program for at least one semester and shown outstanding potential as an art teacher, good character, and leadership ability.

Jane Betsey Welling Endowed Memorial Scholarship: Award of $350 per semester ($700 per academic year) open to full-time undergraduate students who have established a record of at least one semester of study in the Art Education program, with outstanding record in art education courses, excellent potential as an art teacher, and financial need.

Fern E. Zwickey Endowed Memorial Scholarship: Award of $500 per academic year for art education majors, undergraduate or post-degree, with at least twelve credits earned in methods and material courses, who have demonstrated excellence in art education studies for at least one semester and show outstanding potential as an art teacher, good character, and leadership ability.

Teacher Education Students:

David Adamaney Fund for Alternative Pathways to Teaching Program: Award of $1000 (pending available funding) open to teachers in the Detroit Public School system who are enrolled in the College of Education’s Pathways to Teaching program, working towards State Certification.

C.C. Barnes Memorial Fund: Award of a paid membership in the National Council for Social Studies, open to meritorious social studies education students with a cumulative g.p.a. of at least 3.0 and demonstrated evidence of social and intellectual maturity.

Beta Sigma Phi Endowed Scholarship: Award of varying amount for tuition assistance or books, open to full- or part-time undergraduate or graduate students majoring in elementary or secondary education, with a cumulative g.p.a. of at least 3.0. Recipients may be available for repeat awards. Not open to incoming freshmen or transfer students.

Eva Marie and William S. Billups Endowed Scholarship: Award of varying amount open to African-American undergraduate or full- or part-time master’s-level students in education. Criteria include a cumulative g.p.a. of at least 3.0, educational or community-related service, demonstrated potential for leadership, and financial need.

Career and Technical Education Scholarship: Award of $500 (pending available funding) open to full- or part-time African-American students, graduate or undergraduate, in the Career and Technical Education program. Criteria include a cumulative g.p.a. of at least 3.5, scholastic achievement or potential, financial need, and desirable qualities of character and leadership.

College of Education Alumni Association Scholarship: Award of up to twelve credit hours of tuition open to full-time undergraduate students with junior standing who aspire to be teachers. Criteria include a minimum cumulative 3.0 g.p.a. and evidence of the following: leadership ability and potential for becoming an outstanding teacher, social and intellectual maturity, commitment to the field of education, and financial need.

Edna Cresson Endowed Scholarship: Award of two academic years’ tuition (two semesters per year, twelve credits per semester), open to undergraduate or M.A.T. students in a teacher preparation program who are pursuing a career in teaching or school administration. Criteria include a cumulative g.p.a. of at least 3.0, financial need, and high academic achievement. Recipients may be eligible for repeat awards.

Mamie Curtis Special Education Scholarship: Award of varying amount open to undergraduate or graduate special education students enrolled full or part time, with a cumulative g.p.a. of 3.0 or above, high academic achievement, and demonstrated qualities of leadership.

Dean’s Scholarship Award: Award of varying amount open to full- or part-time undergraduate (with minimum 3.5 g.p.a.) or graduate (with minimum 3.75 g.p.a.) students who exhibit interest in urban education. Criteria also include evidence of leadership ability and potential for becoming an outstanding educator, commitment to the field of urban education, and evidence of volunteer community activity.

Delta Kappa Gamma Society, Alpha Chapter, Scholarship (Effie M. Downer Memorial Fund): Award of $1500 open to female graduate students enrolled in a planned degree program full or part time, with a cumulative g.p.a. of 3.5 or above, financial need, and evidence of social and intellectual maturity.

Delta Kappa Gamma Society, Lambda Chapter, Scholarship: Award of $500 open to female graduate students in their final year of teacher preparation. Criteria include a cumulative g.p.a. of 3.0 or above, financial need, high academic achievement, evidence of potential to become an outstanding teacher.

Delta Kappa Gamma Society, Zeta Chapter, Alpha Iota State of Michigan Scholarship (in honor of Dr. Paula A. Dents): Award of $500 open to fourth year female undergraduate or M.A.T. students, full or part time. Criteria include a cumulative g.p.a. of at least 3.25 and approval for student teaching.

Delta Kappa Gamma Society (Metropolitan Council) Scholarship: Award of $500 open to full-time female undergraduate students enrolled in a planned degree program. Criteria include a cumulative 3.0 g.p.a. (or above), residence in metropolitan Detroit area, and enrollment in final phase of student teaching.

Delta Kappa Gamma Society / Irene Waldorf Endowed Scholarship: Award of varying amount open to full-time undergraduate or graduate female students enrolled in a planned degree program. Criteria include a cumulative g.p.a. of 3.0 or above and demonstrated financial need. A representative of Delta Kappa Gamma will have the opportunity to review the candidate’s files.

Detroit Area Council of Teachers of Mathematics Scholarship: Award of $500 open to residents of the Tri-County Area (Wayne, Oakland, Macomb). Criteria include: junior or senior student in good standing with a cumulative g.p.a. of 3.0 or above, desirable qualities of character, and financial need. If applicant is a Secondary major, he/she must have successfully completed sixteen credits in mathematics coursework; if an Elementary major, his/her program must include six credits in mathematics coursework.

Detroit Federation of Teachers Memorial Scholarship: Award of varying amount open to full- or part-time senior and post-graduate students who teach or intend to teach in the Detroit Public Schools. Detroit Public School graduates who are pursuing certification are encouraged to apply. Criteria include a cumulative g.p.a. of at least 3.0, demonstrated financial need, and evidence of social and intellectual maturity.

Dorothy L. Fisher Endowed Scholarship: Award of varying amount which recognizes scholastic achievement of students with a g.p.a. of at least 3.0, undergraduate or graduate, who are majoring in or demonstrate a strong interest in a career in teaching at the elementary or middle school level.

Dr. Marvin L. Greene Endowed Memorial Scholarship: Award of $1000 open to full- or part-time graduate students majoring in or otherwise demonstrating a strong interest in a career as an educator.
Preference will be given to African American applicants. Transfer students are eligible for this scholarship, and recipients are eligible for repeat awards.

**Jean Banks Holloway Endowed Scholarship:** Award of $1000 open to full- or part-time undergraduate students majoring in, or otherwise demonstrating strong interest in, the field of teaching. Applicants must maintain a minimum g.p.a. of 3.0 and demonstrate financial need. Past recipients are eligible for repeat awards.

**J. Wilmer Menge Memorial Scholarship:** Award of $500 open to undergraduate students in Mathematics Education planning to teach at the secondary school level; or graduate students preparing to work in Curriculum and Instruction, or in Evaluation of Instruction. Criteria include a minimum cumulative 3.0 g.p.a., evidence of financial need, and desirable qualities of character.

**Gary Murphy Scholarship:** Award of $1000 open to full- or part-time undergraduate or graduate students majoring in, or otherwise demonstrating strong interest in, a career in teaching elementary education. Transfer students are eligible for this scholarship, and preference is shown to males pursuing elementary education careers. Recipients are eligible for repeat awards.

**Laura Catherine Campbell Endowed Memorial Scholarship:** Award of $1500 open to full-time students enrolled in third-year study in a professional course work. Preference is given to students who plan to work in an urban setting; minority students are encouraged to apply. Criteria include a minimum cumulative g.p.a. of 3.5, evidence of leadership and potential for becoming an outstanding educator, high academic performance, commitment to the professional area, a record of service to one or more urban school or community organizations, and financial need.

**Kinesiology, Health and Sport Studies Students:**

**Kinesiology, Health and Sport Studies (KHSS) Scholarship:** Award of $500 open to full- or part-time graduate or undergraduate students interested in urban education. Criteria include high academic performance; commitment to the field of urban education, and evidence of volunteer community activities.

**Kurt G. and Martha Schmidt Endowed Memorial Scholarship:** Award of $1500 open to full-time students enrolled in third-year study in a teacher preparation program in the College of Education. Criteria include a minimum cumulative g.p.a. of 3.2, senior status at the time funds are made available, and financial need.

**Donna Jean Numaly Edly Endowed Scholarship:** Award of varying amount open to full- or part-time undergraduate or graduate students majoring in Education Teachers: preference will be given to African American applicants. Transfer students are eligible for this scholarship, and recipients are eligible for repeat awards.

**George E. Leonard Memorial Scholarship:** Award of $500 open to graduate students enrolled in a planned degree program in Counselor Education with a demonstrated professional interest in the area of Career Education. Criteria include high academic performance; and a 500-600 word essay on some aspect of Career Education must accompany the application.

**Administrative and Organizational Studies Students:**

**William and Frances LaPlante-Sosnowsky Scholarship (in memory of Amanda Parker Funnelle):** An award of varying amount, which may be used for tuition and books, open to a full- or part-time graduate student in the College of Education who has been accepted in or enrolled in the Educational Leadership and Policy Studies Program. Preference is given to female students. Criteria include a minimum cumulative g.p.a. of 3.75, scholastic achievement, and demonstrated promise and potential to be an educational administrator.

**Scholarships Available to ALL College of Education Students:**

**Carol Ann Albertson Memorial Endowed Scholarship Fund:** Award of varying amount open to full-time undergraduate students in their first year in the College of Education. Criteria include scholastic achievement or potential, and financial need.

**Augustus J. Calloway Jr. Scholarship:** Award of $500 open to full-time African American undergraduate students (or full- or part-time graduate students at the master’s level) in the field of education. Criteria include a minimum cumulative g.p.a. of 3.0, evidence of performance in an educational or community-related service, demonstrated potential for leadership, and financial need.

**Laura Catherine Campbell Endowed Memorial Scholarship:** Award of varying amount for tuition or books, open to all students. Criteria include scholastic achievement.

**Marshall and Theima Davis Endowed Scholarship:** Award of varying amount (depending on available funding) for tuition or books, open to full-time students. Criteria include a minimum cumulative g.p.a. of 3.0, scholastic achievement (determined by the Scholarship Committee), and financial need.

Please note: The information provided is a summary of the scholarships available at the College of Education. For detailed information, including specific requirements and application processes, please visit the College of Education's official website or contact the financial aid office directly.
College of Education Memorial Scholarships: Given in memory of former faculty members, this award of $500 open to full-time undergraduate (or part-time master’s-level graduate) students with a minimum cumulative 3.5 g.p.a., demonstrated evidence of social and intellectual maturity, and financial need.

Faculty Leadership Award: Given in honor of the Chair of the College of Education Faculty and Academic Staff Assembly, this award of $500 is open to students with a minimum cumulative g.p.a. of 3.5 (3.75 for graduate students) who show evidence of leadership and potential for becoming an outstanding educator, commitment to the field of education, and financial need.

Sally W. Gillum Endowed Memorial Scholarship: Award of varying amount open to full- or part-time undergraduates; preference given to African American male students who are Detroit residents. Criteria include academic achievement and financial need.

Margaret Leadbetter Meyers Endowed Scholarship: Award of varying amount for tuition and books, open to full- or part-time graduate or undergraduate students. This scholarship recognizes scholastic achievement and encourages continued progress toward a degree by providing assistance in financing students’ education. Recipients are eligible for repeat awards.

Michigan State Board of Education Scholarship: Award of $1000 (pending available funding) open to students enrolled in the College of Education who have a minimum g.p.a. of 3.0; preference is given to minority students. Applicants need not demonstrate financial need.

Estelle M. Morrison Endowed Memorial Scholarship: Award of varying amount open to students with a minimum cumulative undergraduate g.p.a. of 3.0 (5.0 for graduate students) who demonstrate financial need. This award is dependent on funds available and may be used for tuition, books, and other educational expenses.

Outstanding Educator of the Year Scholarship Award: Given in honor of an outstanding educator or administrator, this award of $500 is open to undergraduate students. Criteria include a minimum cumulative g.p.a. of 3.5, evidence of leadership and potential for becoming an outstanding educator, excellent work in the field component of the teacher education professional sequence, commitment to the field of education, and financial need.

Sally Patterson Memorial Scholarship: Award of $500 open to physically-challenged undergraduate or graduate students enrolled in the College of Education who have financial need and a cumulative minimum g.p.a. of 3.0.

June and John Rounding Endowed Scholarship: Award of varying amount open to all students in the College, with preference given to women applicants who, in addition to working outside their homes, are pursuing graduate or undergraduate study in Education. Applicants must demonstrate financial need; recipients are available for repeat awards.

Michael P. Rutledge Endowed Memorial Scholarship: Award of varying amount open to full-time undergraduate students and full- or part-time graduate students at the master’s level, who evidence financial need. Preference is given to residents of the City of Detroit.

Patricia Sax Endowed Scholarship: Award of $1000 open to full-time undergraduate students in the College of Education with a minimum cumulative g.p.a. of 3.0 and financial need. Recipients are available for repeat awards.

Jennifer Schmerin Memorial Scholarship: Award of $1000 open to full-time graduate or undergraduate students. Criteria include scholastic achievement, desirable qualities of character and leadership, and financial need.

Ilene Stark Smith Endowed Memorial Scholarship: Award of varying amount open to students with a minimum cumulative undergraduate g.p.a. of 3.5 (3.75 for graduate students); not a need-based award. Applicants must write and submit a poem or short story suitable for K-12 children, to be reviewed by the Scholarship Committee as part of the application.

Joseph Taranto Endowed Scholarship: Award of varying amount (pending available funding) for tuition or books, open to full-time graduate or undergraduate students. Criteria include a minimum cumulative undergraduate g.p.a. of 3.0 (3.5 for graduate students), financial need, and evidence of potential to become an outstanding professional in the field.

Loans

For information on College of Education Student Loan Funds, contact Mr. Brian Jones, Office of the Dean, College of Education, 441 Education Building; 313-577-1640; e-mail: ac5059@wayne.edu Loan programs are designed to assist undergraduate as well as graduate College of Education students who are currently enrolled in degree programs and are attending the University on at least a half-time basis.

Alumni Association

The College of Education Alumni Association (formerly Detroit Teachers College Alumni Association) was organized in 1893 in connection with the Detroit Normal Training School. In the years since its origin, its membership has continually increased. The aims of the Association, as set forth in its constitution, are (a) to foster a spirit of loyalty to the College, (b) to raise the standards of the teaching profession, (c) to assist professionally and financially those who need help, (d) to keep alive the spirit of real fellowship, and (e) to encourage worthwhile contacts between the student body and the Alumni Association. In addition to being supportive of the University and meeting the needs of the membership through appropriate programs, the Association, in recent years, has addressed itself to ways in which it can be of service to the broader community, recognizing that only through this commitment can it be a viable force in an urban university setting.

The Alumni Association has been generous in its gifts to the College. A gift provided complete furnishings for two rooms in the College of Education building — the Alumni Conference Room and the Faculty Lounge. The Alumni Association provides scholarships for deserving students, sponsors the Golden Anniversary Tea in honor of fifty-year graduates of the College, honors both alumni and faculty with awards and recognition, and supports the work of the Dean in carrying forward many activities of mutual interest and concern. In becoming active members of the Association, the graduates of the College have ample opportunity to uphold and develop the best movements and ideals set forth by educational leaders and to lead in professional friendliness among all teachers.
COLLEGE OF EDUCATION DIRECTORY

Dean of the College of Education:
Paula C. Wood: Room 441, Education Building; 577-1620

Associate Dean, Research:
Steven Ilmer: Room 441, Education Building; 577-1620

Assistant Dean, Academic Services:
Janice Green: Room 489, Education Building; 577-1605

Interim Assistant Dean, Administrative and Organizational Studies:
Joann Holbert: Room 341, Education Building; 577-1721

Assistant Dean, Kinesiology, Health, and Sport Studies:
Sarah Erbaugh: Room 261, Matthaei Building; 577-6210

Assistant Dean, Teacher Education:
Sharon Elliott: Room 241, Education Building; 577-0902

Assistant Dean, Theoretical and Behavioral Foundations:
Joanne Holbert: Room 341, Education Building; 577-1721

Assistant to the Dean:
Cam Liebold: Room 441, Education Building; 577-3284

Website: http://www.coe.wayne.edu/

KINESIOLOGY, HEALTH, and SPORT STUDIES

Office: 261 Matthaei Building; 577-4265
http://www.KHS.wayne.edu

Assistant Dean: Sarah J. Erbaugh
Website: http://www.kinesiology.wayne.edu

Associate Professors
David B. Blievernicht, Herman J. Engels, Sarah J. Erbaugh, Jeffrey Martin

Assistant Professors
Joe Dake, Mariane Fahlman, Randall Gretebeck, Avanelle Kidwell, Pamela Kulinna, Qin Lai, Nate McCAughty, Peter A. Roberts, William W. Sloan, Delano Tucker, John C. Wirth

Lecturers
Judy Bowen, Bridget Norris, Steve Singleton

Degree and Certificate Programs

BACHELOR OF SCIENCE in Education
with a major in kinesiology

BACHELOR OF SCIENCE in Education
with a major in health education

BACHELOR OF ARTS in Education
with a major in kinesiology

BACHELOR OF ARTS in Education
with a major in health education

*MASTER OF EDUCATION with a major in health education

*MASTER OF EDUCATION with a major in kinesiology
and concentrations in exercise and sport science,
kinesiology pedagogy, and wellness

*MASTER OF ARTS IN TEACHING with a major in kinesiology

*MASTER OF ARTS with a major in sports administration
and with concentrations in interscholastic athletic administration,
intercollegiate athletic administration, professional sports administration,
recreation administration, and commercial sports administration

The Division of Kinesiology, Health and Sport Studies provides courses at the undergraduate level in several professional areas: Kinesiology — teacher certification and exercise science; and Health Education — teacher certification. The Division provides programs at the master’s level in all three areas. Additionally, the Division offers courses in driver education and lifestyle fitness enhancement. The Lifestyle Fitness Activities program is designed to serve the general student population; courses are open to both undergraduate and graduate students.

Courses in these areas may be used to meet degree and curricular requirements of the various schools and colleges of the University. Students are advised to consult their academic advisers in their respective schools or colleges prior to registration.

* For specific requirements, see the Wayne State University Graduate Bulletin.
Bachelor of Science in Education with a major in Kinesiology

Admission Requirements: All students who enter the University directly from high school, or transfer to Wayne from other colleges and who declare their intent to major in kinesiology are admitted directly to the College of Education; for requirements, see page 102. Upon application, students should request admission into the kinesiology major program.

Students already admitted into any other college of Wayne State University must apply for transfer to the kinesiology program through the College of Education, Room 469 Education Building. (Forms for transfer of college are available in Room 469 Education Building.) Eligibility for admission as transfer students from other colleges or universities, or from other colleges within Wayne State, is based on the following criteria:

1. A minimum overall grade point average of 2.5.
2. Completion of English 1020 or equivalent.
3. Satisfactory completion of the University English Proficiency Examination and Mathematics Proficiency Examination. Students in the Teacher Certification Program must also pass the basic skills portion of the Michigan Test for Teacher Certification (MTTC).
4. Attendance at a College of Education Orientation session.
5. Documentation of group work with children at the time of application (teacher certification track only).
6. Possession of personal attributes most desirable for teachers, including a high standard of moral conduct and an understanding of the nature of responsible citizenship (teacher certification track only).
7. Physical and emotional health commensurate with the demands of the kinesiology profession.
8. Negative TB test (teacher certification track only).

Post Degree: Students should follow the procedures for application and file a Post Degree Form in Room 469 Education Building.

DEGREE REQUIREMENTS: A minimum of 124 credits are required for completion of this degree: a minimum of forty credits in general education (including satisfaction of the University General Education requirements, see page 23); forty-seven credits in kinesiology; eight credits in health, anatomy, and physiology; and twenty-two credits in education courses for the teacher certification track, or a minimum of twenty credits in education courses for the exercise science track. Students in the teacher certification track must develop a minor or a second major. Electives to complete the 124 credit requirement may be used in any area. All course work must be completed in accordance with the academic procedures of the College of Education and University governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, 87 and 103. All major, minor, and education courses must be completed with grades of ‘C’ or better and an overall 2.5 grade point average, to meet College graduation requirements. Course changes may occur through periodic curriculum revision and students are urged to consult assigned advisers prior to each registration period to insure that all requirements are met.

Teacher Certification Track: This degree track prepares students for careers in teaching school kinesiology. Specific goals of this track include: acquisition of skills in and knowledge of a variety of movement activities, including fundamental motor skills, dance, fitness, and leisure activities; the ability to apply knowledge about human movement acquired from its subdisciplines to the teaching of kinesiology; the ability to analyze and evaluate individual human motor performance in a variety of age groups and skill levels; and the capacity to systematically evaluate one’s own teaching performance and to plan, implement and manage effective lessons.

Exercise Science Track: This degree track is designed to provide self-directed students with a specialized background for graduate-level study and professional work in the field of exercise science. This track is basic to careers in such fields as adult fitness, corporate fitness, exercise physiology, athletic training, cardiac rehabilitation; and it is prerequisite to the necessary post-graduate study or additional certification requirements of the field. (For additional information, please see Division website.)

HEALTH FOUNDATION SEQUENCE
(Required with each option)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 2870</td>
<td>Anatomy and Physiology</td>
<td>5</td>
</tr>
<tr>
<td>HEA 2330</td>
<td>First Aid and CPR</td>
<td>3</td>
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</table>

PHYSICAL EDUCATION CORE
(Required with each option)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>KIN 1991</td>
<td>Professional Perspectives in Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>KIN 3400</td>
<td>Lifespan Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>KIN 5540</td>
<td>Cultural Foundations of Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 3550</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>KIN 5580</td>
<td>Pediatric Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 3580</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 5500</td>
<td>Evaluation &amp; Measurement in Health &amp; Physical Education</td>
<td>3</td>
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Total credits: 20

TEACHING CERTIFICATION TRACK

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>KIN 2580</td>
<td>Physical Ed. in Secondary Schools I &amp; II</td>
<td>3</td>
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<tr>
<td>KIN 2590</td>
<td>Physical Ed. in Secondary Schools I &amp; II</td>
<td>3</td>
</tr>
<tr>
<td>KIN 5440</td>
<td>Physical Ed. for Elementary School Children I</td>
<td>3</td>
</tr>
<tr>
<td>KIN 5450</td>
<td>Physical Ed. for Elementary School Children II</td>
<td>3</td>
</tr>
<tr>
<td>KIN 3440</td>
<td>Aquatic Leadership</td>
<td>4</td>
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<tr>
<td>KIN 5400</td>
<td>Inclusion in KIN</td>
<td>3</td>
</tr>
<tr>
<td>RDG 4430</td>
<td>Lifelong Leisure Activity (LFA) course</td>
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Total credits: 27

PROFESSIONAL EDUCATION REQUIREMENTS

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>KIN 5460</td>
<td>Instructional Methods in Physical Education</td>
<td>3</td>
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<tr>
<td>KIN 5780</td>
<td>Student Teaching and Seminar I</td>
<td>8</td>
</tr>
<tr>
<td>KIN 5790</td>
<td>Student Teaching and Seminar II</td>
<td>5</td>
</tr>
<tr>
<td>EDP 3310</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>RDG 4430</td>
<td>Teaching Reading in Subject Matter Areas</td>
<td>3</td>
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Total credits: 22

EXERCISE SCIENCE TRACK

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HEA 2310</td>
<td>Dynamics of Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>KIN 2010</td>
<td>Psychophysiologic Fdn's of Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>KIN 5350</td>
<td>Exercise Science Internship</td>
<td>2-4</td>
</tr>
<tr>
<td>KIN 5360</td>
<td>Senior Research Project</td>
<td>4</td>
</tr>
<tr>
<td>KIN 6320</td>
<td>Fitness Assessment and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>HE 3440</td>
<td>Nutrition and Health</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives in emphasis areas of exercise science, athletic training, sport and exercise psychology, fitness and nutrition, or clinical exercise physiology</td>
<td>Cr. 20-24</td>
<td></td>
</tr>
</tbody>
</table>

Additional required courses for athletic training emphasis

(NOTE: a moratorium is currently in effect for this program)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 5330</td>
<td>Principles of Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KIN 5340</td>
<td>Prevention, Care, and Eval. of Athletic Injuries</td>
<td>3</td>
</tr>
</tbody>
</table>

Total credits: 40

LIFESTYLE FITNESS ACTIVITIES (LFA): Total credits: 10

Bachelor of Arts in Education with a major in Kinesiology

The admission and degree requirements for the Bachelor of Arts are similar to those for the Bachelor of Science degree (as described above), with the exception that the student’s work must include twelve credits in a foreign language. If two or more units of a foreign
language are offered for admission, this requirement may be satisfied by completing eight credits in the same language beyond the freshman level.

**Teacher Certification Track:** The following requirements apply to students in the teacher certification program:

1. Students must apply for and complete two semesters of student teaching/seminar, elementary and secondary levels.

2) Students must submit completed application forms by the appropriate application period deadline:
- **Term I (Fall Semester):** November 30 of the preceding academic year
- **Term II (Winter Semester):** May 31 of the preceding academic year.

Application forms for student teaching are obtained from the academic adviser. An appointment with the coordinator of student teaching is also required. Completed application forms MUST be submitted by the application period deadline in order to reserve a student teaching assignment.

3. Students must have a satisfactory health record and a tuberculosis test within six months before the assignment begins. A copy of the test results must be submitted with the application.

4. Students must meet the following conditions to qualify for student teaching:
   a) Ninety-two credits must be completed (incomplete grade credits will not count).
   b) 'C' or better grades must be earned in all major, minor, and professional education courses.
   c) A 2.5 grade point average overall and in the major is required. The major g.p.a. includes all professional courses as well as BIO 2870.
   d) Successful completion of the Michigan Test for Teacher Certification (MTTC), basic skills, and subject matter tests.

5. The following courses must be satisfactorily completed. (An incomplete grade does not constitute satisfactory completion;): BIO 2870, EDP 3310, KIN 1991, 2580, 2590, 3550, 3580, 5440, 5450, 5460, and 5580.

6. The following certifications are required before the secondary student teaching contact:
   a) Current Red Cross Lifeguard Training Certificate.
   b) Current Water Safety Instructor Certificate.

7. CPR and First Aid certification is required for placement.

**Teaching Certification**

Students who complete all of the kinesiology and College of Education requirements may apply for a Michigan Secondary Provisional Teaching Certificate at the same time they apply for graduation. This certificate qualifies the holder to teach grades K-12 in his/her major and grades 7-12 in his/her minor subject. Initial certification is provisional for a six-year period. For further information contact the College of Education.

**Minor in Kinesiology**

Future teachers seeking a physical education teaching position may find the kinesiology minor a valuable program option. This minor (listed below) may be elected by students completing any teaching major, however, students must complete the minor at the level appropriate for their particular teaching major and have approval of a kinesiology adviser — i.e., secondary majors complete the secondary course requirements, and elementary majors complete the elementary course requirements.

Students not involved in a teacher certification program may elect a kinesiology minor only after consultation with a program adviser.

**KINESIOLOGY CORE**

Select two of the following:
- KIN 3400 -- Lifespan Growth and Development: Cr. 3
- KIN 3550 -- (WI) Motor Learning and Control: Cr. 3
- KIN 5580 -- Pediatric Exercise Physiology: Cr. 3
- KIN 3580 -- Biomechanics (Prereq: BIO 2870 or equiv.): Cr. 3

**SPECIALIZED TEACHING CORE (Fifteen Credits — One of the following options required)**

**Secondary**
- KIN 2010 -- Psycho/Physiological Fdns. of Physical Activity: Cr. 3
- KIN 2580-- Physical Education in Secondary Schools I: Cr. 6
- KIN 2590 -- Physical Education in Secondary Schools II: Cr. 6

Secondary minors must also complete KIN 5460, Instructional Methods in Physical Education.

**Elementary**
- KIN 2010 -- Psycho/Physiological Fdns. of Physical Activity: Cr. 3
- KIN 2580 -- Physical Education in Secondary Schools I: Cr. 3
- KIN 2590 -- Physical Education in Secondary Schools II: Cr. 3
- KIN 5440 -- Physical Ed. for Elementary School Children I: Cr. 3
- KIN 5450 -- Physical Ed. for Elementary School Children II: Cr. 3

**Training Program for Adaptive Kinesiology**

A program leading to State endorsement in this specialty is available to kinesiology and special education majors. The program requires thirteen credits in approved special education courses and eleven to fifteen credits in adapted kinesiology courses. To be admitted to this program the student must possess a valid Michigan teaching certificate in kinesiology or any area of special education, or be enrolled in one of the above programs. Endorsements will not be granted without a teaching certificate in kinesiology or special education. Kinesiology majors must consult with their advisers, prior to electing courses for this endorsement.

**ENDORSEMENT REQUIREMENTS**

- KIN 5400 -- Inclusion in KIN: Cr. 3
- KIN 5410 -- KIN for Special Needs Students: Cr. 3
- KIN 5420 -- Sports & Recreation for Special Needs Students: Cr. 3
- KIN 5430 -- Practicum in Adaptive KIN: Cr. 3
- SED 5030 -- Education of Exceptional Children: Cr. 3
- SED 5110 -- Mental Impairment and the Cognitive Process: Cr. 3
- SED 5260 -- SED for Learners with Low Incidence Disabilities: Cr. 4
- SED 5600 -- Support for Students with Special Needs: Cr. 3

Total credits: 24

**Bachelor of Science in Education with a major in Health Education**

**Admission Requirements:** All students who enter the University directly from high school, or transfer to Wayne from other colleges and who declare their intent to major in health education, are admitted directly to the College of Education; for requirements, see page 102. Upon application, students should request admission into the health education major program.

**Transfer Admission:** Students already admitted into any other college of Wayne State University must apply for transfer to the health education program through the College of Education, Room 469 Education Building. (Forms for transfer of college are available at either Room 267 Matthaei or Room 469 Education Building.)

Eligibility for admission as transfer students from other colleges or universities, or from other colleges within Wayne State, is based on the following criteria:
1. Satisfactory completion of two years of college work: A minimum of fifty-three semester or eighty quarter credits of work must be completed with an overall grade point average of 2.5 or above. In addition, the g.p.a. for any courses taken at Wayne State must also be at 2.5 or above. Transfer student work should generally conform to the two years of pre-professional work prescribed by the College for students who expect to prepare for teaching. The quality of work, especially in the major area, must indicate a strong potential for success in a teacher education program.

2. Students must satisfactorily complete both the University English Proficiency Examination and the University Mathematics Proficiency Requirements. Students must also have completed ENG 1020 or an acceptable equivalent.

3. All students must pass the basic skills portion of the Michigan Teacher Competency Tests (MTCT).

4. Definite standards of health must be met by all students. Students are urged to consult assigned advisers prior to submission of application.

5. Students must provide documentation of group work with children at the time of application.

6. Students must possess personal attributes most desirable for teachers, including a high standard of moral conduct and an understanding of the nature of responsible citizenship.

DEGREE REQUIREMENTS: A total of 124 credits are required for completion of this degree: a minimum of forty credits in General Education for the University General Education requirements, see page 23; forty-four core credits in health education (see below); twenty credits in a selected minor; and twenty credits in professional education requirements (see below). All course work must be completed in accordance with the academic procedures of the College of Education and University governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, 87 and 103. All courses must be completed with grades of 'C' or better and an overall 2.5 grade point average, to meet College graduation requirements. Course changes may occur through periodic curriculum revision and students are urged to consult assigned advisers prior to each registration period to insure that all requirements are met.

Teacher Certification: The following requirements apply to students seeking teacher certification:

1) Students must complete one semester of student teaching/seminar at the secondary level.

2) Students must submit completed application forms by the appropriate application period deadline:
   - Term I (Fall Semester): November 30 of the preceding academic year
   - Term II (Winter Semester): May 31 of the preceding academic year.

Application forms for student teaching are obtained from the academic adviser. An appointment with the coordinator of student teaching is also required. Completed application forms MUST be submitted by the application period deadline in order to reserve a student teaching assignment.

3) Students must have a satisfactory health record and a TB test within six months prior to the time the assignment begins. Test results must be submitted with the application.

4) Students must meet the following qualifications:
   a) Completion of ninety-two credits in course work (excluding courses with an “I” — Incomplete mark).
   b) All major, minor, and professional education courses must have been completed with a grade of ‘C’ or better.
   c) A grade point average of at least 2.5 overall, as well as in the major (the major includes all professional courses).
   d) Successful completion of the Michigan Test for Teacher Certification, basic skills, and subject matter tests

5) Students must successfully complete the following courses: BIO 1510; HEA 2310, 2320, 2330; H E 3300, 3330, 3400, 3440, 4340, 5500, 5540, 5660, 6430; KHS 6600; EDP 3310; and RDG 4430. (An incomplete grade does not constitute satisfactory completion.)

Students who successfully complete all the College of Education and health education course requirements may apply for a Michigan Secondary Provisional Teaching Certificate at the time they apply for graduation. The Certificate qualifies the holder to teach health in grades 7-12; initial certification is provisional for a six-year period. (For further information, contact the College of Education.)

HEALTH EDUCATION CORE (Forty-four credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>HEA 2310</td>
<td>Dynamics of Personal Health</td>
</tr>
<tr>
<td>HEA 2320</td>
<td>Dynamics of Community &amp; Environmental Health</td>
</tr>
<tr>
<td>HEA 2330</td>
<td>First Aid &amp; CPR</td>
</tr>
<tr>
<td>H E 3300</td>
<td>Health of the School Child</td>
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<tr>
<td>H E 3400</td>
<td>Lifespan Growth and Development</td>
</tr>
<tr>
<td>H E 3440</td>
<td>Nutrition and Health Education</td>
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<tr>
<td>H E 3500</td>
<td>Human Disease</td>
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<td>H E 4340</td>
<td>Family and Reproductive Health</td>
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<td>H E 5220</td>
<td>Health Behavior Change</td>
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<tr>
<td>H E 5500</td>
<td>Evaln. &amp; Measmt. in Health &amp; Physical Ed.</td>
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<tr>
<td>H E 5540</td>
<td>Cultural Foundations of Health &amp; Physical Ed.</td>
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<tr>
<td>H E 5660</td>
<td>Mental Health</td>
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<td>H E 6430</td>
<td>School Health Curriculum</td>
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<tr>
<td>KHS 6600</td>
<td>Role of Health Professional in Substance Abuse</td>
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<tr>
<td>KIN 2010</td>
<td>Psycho-Physical Fdns. of Phys. Activity &amp; Health</td>
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PROFESSIONAL EDUCATION REQUIREMENTS (Twenty credits)

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>H E 3330</td>
<td>School Health Education</td>
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<tr>
<td>H E 5780</td>
<td>Directed Student Teaching</td>
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<tr>
<td>RDG 4430</td>
<td>(WI) Teaching Reading in Subject Matter Areas</td>
</tr>
<tr>
<td>EDP 3310</td>
<td>Educational Psychology</td>
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</tbody>
</table>

GENERAL EDUCATION REQUIREMENTS

Forty credits, which must include:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1510</td>
<td>(LS) Basic Life Mechanisms</td>
</tr>
</tbody>
</table>

MINOR

Twenty credits in an approved teaching minor.

Bachelor of Arts in Education

with a major in Health Education

Admission Requirements: Requirements for entry into the Bachelor of Arts in Education with a major in Health Education program are the same as for the Bachelor of Science degree in health education (see above).

DEGREE REQUIREMENTS: The degree requirements for the Bachelor of Arts are the same as those for the Bachelor of Science program (see above), with one exception: the student’s work must include twelve credits in a foreign language. If two or more credits in a foreign language are included as part of the requirements for admission, this requirement may be satisfied by completing eight credits in the same language beyond the freshman level.

Teacher Certification: see Bachelor of Science degree program, above.

Health Education Minor

Health education plays an educational role in the promotion of health and the prevention of disease. A minor in health education provides opportunities for involvement in school health education, as well as an introduction to a career as a health education professional in a clinical or community setting.

In the State of Michigan, a commitment has been made to a comprehensive health education curriculum, the Michigan Model. Promoted by the state departments of public health and education, the Michi-
gan Model has been adopted by an increasing number of schools. The secondary minor in health education qualifies individuals for a health teaching endorsement in grades 7-12; the elementary minor qualifies individuals for a health teaching endorsement in grades K-8, at the elementary and secondary levels, as well as in some of the Michigan Model adopted schools. In addition, a minor in this field may be combined with nursing or other health science fields.

The requirements for a minor in health education include courses in five areas: 1) professional preparation; 2) physical health; 3) mental health; 4) nutrition; 5) personal health; and 6) substance abuse. Students must see an adviser in health education to file a Plan of Work prior to electing courses.

MINOR REQUIREMENTS: A total of twenty-four credits is required for the completion of the health education minor, as follows:

- HEA 2310 -- Dynamics of Personal Health: Cr. 3
- HEA 2330 -- First Aid and CPR: Cr. 3
- HE 3300 -- Health of the School Child: Cr. 3
- HE 3330 -- School Health Education (Secondary Minors): Cr. 3
- HE 3340 -- Health Ed. for Elem. School Teacher (Elementary Minors): Cr. 3
- HE 3440 -- Nutrition and Health Ed.: Cr. 3
- HE 4340 -- Family and Reproductive Health: Cr. 3
- HE 5440 -- Mental Health and Substance Abuse: Cr. 3
- HE 6430 -- School Health Curriculum: Cr. 3

Total credits: 24

Lifestyle Fitness Activities (LFA)
The Lifestyle Fitness Activities (LFA) program is an integral part of the Division; it provides students with the opportunity to enhance physical well-being and to acquire developmental skills, knowledge, and attitudes which can be utilized throughout life. Participation in these courses also enhances self-esteem, self-responsibility, and self-determination. LFA courses (see page 99) are offered to both undergraduate and graduate Wayne State students; however, these courses are not offered for graduate credit. LFA courses may also be elected by non-matriculated and visiting students.

UNDERGRADUATE COURSES
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

DRIVER EDUCATION COURSES (D E)

5730 Teaching Driver Education and Traffic Safety. (TED 5994) Cr. 3
Prereq: valid Michigan driver’s license. (F,W)

5740 Problems in Driver Education and Traffic Safety. (TED 5740) Cr. 3
Prereq: D E 5730. Issues and concerns in professional preparation to meet traffic safety needs of schools and communities. (F,S)

5750 Seminar in Driver Education and Traffic Safety. (TED 5750) Cr. 3
Prereq: D E 5740. Behavioral, administrative, and professional aspects of the teaching role in driver and traffic safety education. (W,S)

HEALTH COURSES (HEA)

2310 Dynamics of Personal Health. Cr. 3
Critical health issues relevant to college students today; application to school-age children, personal, and family needs. (T)

2320 Dynamics of Community and Environmental Health. Cr. 3
Ecological factors in human health: environmental pollution and other health problems of communities; organized efforts to deal with them. Violence prevention in personal life and schools. (Y)

2330 First Aid and CPR. Cr. 3
Theory and practice. Students can qualify for American Red Cross certifications in First Aid and CPR. Material fee as indicated in the Schedule of Classes. (T)

3990 Individual Problems in Health. Cr. 1-3 (Max. 3)
Prereq: HEA 2310 or 2320 and consent of instructor. Solving a specific personal health problem or studying a specific community health problem under the guidance of divisional staff. (T)

HEALTH EDUCATION COURSES (H E)

2010 (KIN 2010) Psycho-Physiological Foundations of Physical Activity and Health. Cr. 3
Physiological and psychological foundations of physical activity evaluated using the scientific method. Laboratories demonstrate relevant concepts and principles. (T)

3300 Health of the School Child. (TED 4300) Cr. 3
Health status and problems of school-age children. Role of teacher in health promotion and protection; teacher observation and classroom first aid. (F,W)

3330 School Health Education. Cr. 3-4
Open only to health majors or minors. Prereq: completion of 18 health credits. Principles, curriculum development, and techniques in teaching health at elementary and secondary school levels. Students who successfully complete this class with no more than one absence will earn certification in the Michigan Model for Health Education, grades 7-12. (F)
3340 Health Education for the Elementary School Teacher. Cr. 3
Introduction to the Michigan Model for Comprehensive School Health Education in the elementary school (K-6). (S)

3400 (KIN 3400) Lifespan Growth and Development. Cr. 3
Study of change in motor behavior from infancy to older adulthood. Competency in: ability to formulate a developmental perspective, knowledge of changing behavior across life-span, knowledge of factors affecting motor development, ability to apply knowledge in instructional and recreational settings. (F)

3440 Nutrition and Health Education. Cr. 3
Relationships between dietary intake and health status; implication for educational interventions. (F)

3500 Human Disease. Cr. 2
Body system impairments from disease, injury or congenital abnormalities that relate to morbidity and mortality in the U.S. Signs, symptoms, causes, prevention, and treatment. (S)

3540 Mental Health and Substance Abuse. Cr. 3
Prereq: H E 2310 or consent of instructor. Identification, treatment, and prevention of mental health/substance abuse problems. How school-age children and their families are affected by these problems; role of the teacher. (Y)

5220 Health Behavior Change. Cr. 3
Principles of behavior modification; theories of health behavior and program planning as they relate to health promotion and wellness. (Y)

5440 Mental Health and Substance Abuse. Cr. 3
Prereq: consent of adviser and chairperson. Solving a specific problem under the guidance of the divisional staff. (T)

5500 (KIN 5500) Evaluation and Measurement in Health and Physical Education. Cr. 3
Elementary statistical methods and evaluative techniques applied to kinesiology, health, and sport studies. Test construction and standard measurement approaches. (W)

5540 (KIN 5540) Cultural Foundations of Physical Education. Cr. 3
Introduction to the sociology of sport and health. (F)

5660 Mental Health. Cr. 3
Mental health, mental illness, stress and mental health service delivery. Mental health examined from biological, psychological, social and political perspectives; focus on adolescent mental health. (Y)

5780 Directed Student Teaching. Cr. 10
Offered for S and U grades only. Prereq: admission to student teaching as listed in the undergraduate handbook. Secondary school teaching experience. (F,W)

6350 Health Education and the Nation’s Health. Cr. 3
Introductory course for graduate health program. Current national health status; contributory factors including: policies, controversies, hazards, proposed solutions to problems in health care system and delivery of health care. (F)

6420 Introduction to Health Education Program Design. Cr. 3
Prereq: graduate major in Health Education. Overview of health education program process in all practice settings. Introduction to needs assessment, objective writing, staff training, and evaluation in health education. (W)

6430 School Health Curriculum. Cr.3
Prereq: H E 3330. Principles and application of school health programming. Philosophy and foundations of health education, conducting a needs assessment and design instruction based on the assessment, implementing and evaluating the instruction, implementation of skills in a secondary classroom, assessment of the process. (Y)

6500 Comprehensive School Health Education. Cr. 3
Overview of comprehensive school health education. Study of major comprehensive health curricula with intensive training in the Michigan Model. This class leads to certification to teach the Michigan Model in public schools. (Y)

6530 Principles and Practice of Health Education and Health Promotion. Cr. 3
Prereq: graduate standing and H E 6420 or consent of instructor. Principles and application of health education programs in the community or health care setting. Consultation skills, marketing and motivational strategies within the role of the health educator. (B)

6550 Teaching Methods and Techniques in Health Education. Cr. 3
Strategies employed in dissemination of health information in the community and school system. Integration of cognitive skills, behavior change theory, and classroom management to produce effective health instruction. (W)

KINESIOLOGY COURSES (KIN)

1991 Professional Perspectives in Physical Education. Cr. 2
Required upon admission to the professional curriculum. Introduction to the profession and academic dimensions of physical education. (F)

2010 Psycho-Physiological Foundations of Physical Activity and Health. (H E 2010) Cr. 3
Physiological and psychological foundations of physical activity evaluated using the scientific method. Laboratories demonstrate relevant concepts and principles. (T)

2560 Individual Problems in Physical Education. Cr. 1-3 (Max. 4)
Prereq: consent of adviser and chairperson. Solving a specific problem under the guidance of the divisional staff. (F,W)

2580 Physical Education in Secondary Schools I and II. Cr. 3 (Max. 6)
Open only to physical education majors, minors, and special education students. Skill development, methods and materials of teaching individual sports at the middle and high school levels, including classroom management and motivation, organization of personnel and use of facilities. (F,W)

2590 Physical Education in Secondary Schools I and II. Cr. 3 (Max. 6)
Open only to physical education majors, minors, and special education students. Skill development, methods and materials of teaching team sports at the middle and high school levels, including classroom management and motivation, organization of personnel and use of facilities. (F,W)

3400 Lifespan Growth and Development. (H E 3400) Cr. 3
Study of change in motor behavior from infancy to older adulthood. Competency in: ability to formulate a developmental perspective, knowledge of changing behavior across life-span, knowledge of factors affecting motor development, ability to apply knowledge in instructional and recreational settings. (F)

3440 Aquatic Leadership. Cr. 4
Prereq: swimmer level. Water safety and survival skills; instructional methods; program development, administration of aquatic programs; leads to Lifeguard Training, Lifeguard Instructor, and Water Safety Instructor certifications. (F)
3550  (WI) Motor Learning and Control. Cr. 3
Prereq: BIO 2870 or equiv. Study of motor skill acquisition and motor control with applications to physical education. Focus on cognitive processes and neural mechanisms which contribute to motor learning and control.  (W)

3580  Biomechanics. Cr. 3
Prereq: BIO 2870 or equiv. Application of knowledge of human physical structure and function in the analysis and appreciation of human movement; theory and practice of human movement analytic techniques. Material fee as indicated in the Schedule of Classes.  (F)

5330  Principles of Athletic Training. Cr. 3
Prereq: BIO 2870 or equiv. Philosophy of athletic training and basic training room protocol. Theory of evaluation techniques, nutrition, emergency techniques.  (B)

5340  Prevention, Care and Evaluation of Athletic Injuries. Cr. 3
Prereq: BIO 2870 or equiv. The training room: its purpose, equipment and management. Principles and techniques of treating sprains, strains, and other injuries of the locomotor system and of the skin; evaluation techniques for these injuries. Application of heat, water, massage, electrical stimulation, ultrasound, and special exercises. Basic first aid procedures; training table; observation and directed experiences. Material fee as indicated in the Schedule of Classes.  (B)

5350  Exercise Science Internship. Cr. 2-4 (Max. 8)
Prereq: KIN 6320, HEA 2330; written consent of instructor. Supervised experience in health and exercise programs with various populations at approved sites.  (F,W)

5360  Senior Research Project. Cr. 4 (Max. 8)
Prereq: consent of instructor. Students conduct scientific research in exercise science; review of literature, data collection, assisting with data transformation, help with formal presentation of written or oral materials of findings from the study.  (T)

5400  Inclusion in Physical Education. Cr. 3-4
Prereq: BIO 2870 and KIN 3400 or equiv. Conditions that impair students' health, mental and/or physical functioning. Motor characteristics, developmental sequences associated with differently-abled individuals. Integration of individual education plan as part of curriculum practices. Transcending of school environment to prepare children and youth for lifelong activity. Review of adaptive physical education and special education terminology, legislation, and student placement models.  (F)

5410  Physical Education for Students with Special Needs: Methods and Materials. Cr. 3
Prereq: KIN 5400, consent of instructor. Writing behavioral objectives for students with special needs. Adaptation of teaching methods and materials to meet the needs individuals with special needs in physical fitness, fundamental motor skills, individual and group games, and lifetime sports skills.  (F,W)

5420  Sports and Recreation for Children with Special Needs. Cr. 3
Prereq: KIN 5400 and consent of instructor. Implementation of appropriate physical education curriculum for students with special needs. Coaching and training techniques for working with students with special needs in school, recreational, and competitive sports.  (F,W)

5430  Practicum in Physical Education for the Exceptional Student. Cr. 2-6
Prereq: KIN 5400, 5410, 5420, and consent of instructor. Offered for S and U grades only. Directed fieldwork placement in teaching physical education to students with special needs in school, camp, sport, or recreational setting. Required for State of Michigan Approval in Teacher of Physical Education for the Handicapped.  (F,W)

5440  Physical Education for Elementary School Children I. (DNC 5430) (DNE 5430) Cr. 3
Prereq: KIN 3400. Developmental approach to teaching elementary physical education in schools. Beginning movement concepts and fundamental motor skills that are developmentally appropriate for children to participate in games, gymnastics, dance, and fitness activities. Curriculum design and implementation of activities in practicum application.  (F)

5450  Physical Education for Elementary School Children II. (DNC 5435) (DNE 5435) Cr. 3
Prereq: KIN 5440. Continuation of KIN 5440, focusing on a developmental approach to teaching elementary physical education in schools. Investigation of various teaching methods and styles using movement, themes, fundamental motor skills, games, gymnastics, dance and fitness activities. Implementation of developmentally appropriate activities in practicum application.  (W)

5460  Instructional Methods in Physical Education. Cr. 3
Planning for instruction in physical education with emphasis on unit and lesson planning, teaching styles, principles of motor learning and developmental curriculum planning.  (W)

5500  Evaluation and Measurement in Health and Physical Education. (H E 5500) Cr. 3
Elementary statistical methods and evaluative techniques applied to health, physical education, and recreation. Test construction and standard measurement approaches.  (W)

5510  Coaching Principles and Certification. Cr. 3
Specific topics on the coach and the athlete in areas of administration, motor learning, physical growth, motor skill acquisition, philosophy, psychology and sociology.  (F,W)

5540  Cultural Foundations of Physical Education. (H E 5540) Cr. 3
Introduction to the sociology of sport and health.  (F)

5570  Physiology of Exercise I. Cr. 3
Prereq: BIO 2870 or equiv. Basic physiological concepts as they relate to exercise and human performance. Practical applications incorporated into the laboratory component.  (W)

5580  Pediatric Exercise Physiology. Cr. 3
Prereq: BIO 2870. Contemporary physiological concepts as related to exercise and physical performance capacity in children, and their practical applications.  (Y)

5780  Student Teaching and Seminar I. Cr. 6-8 (FLD: 0;SMR: 0)
Prereq: admission to student teaching. Offered for S and U grades only. First experience in student teaching in the schools for students pursuing physical education teacher certification. Includes weekly seminar covering topics related to teaching physical education in schools.  (F,W)

5790  Student Teaching and Seminar II. Cr. 4-5
Prereq: KIN 5780. Offered for S and U grades only. Continuation of KIN 5780. Directed teaching in the schools; includes weekly seminar.  (F,W)

6310  (PSL 6010) Physiology of Exercise II. Cr. 3
Prereq: KIN 5570 or consent of instructor. Metabolic, neuromuscular, cardiovascular, and respiratory adjustments to acute and chronic exercise in health and disease, including body composition and weight control, nutritional considerations, and the effects of different environments on exercise performance.  (F)

6320  Fitness Assessment and Exercise Prescription. Cr. 3
Prereq: KIN 6310. Physiological and anatomical principles of physical fitness. Optimum nutrition for health, weight control and performance. Construction of fitness programs and evaluation of fitness levels. Material fee as indicated in the Schedule of Classes.  (W)
6410 Introduction to Sports Administration. Cr. 3
Current categories of competitive sports and athletics identified and analyzed to determine potential administrative positions in their structures and the qualifications necessary for each position. (F,W)

KINESIOLOGY, HEALTH, and SPORT STUDIES INTERDIVISIONAL COURSES (KHS)

5520 Sport Psychology. Cr. 3
Major sport-specific theories explaining self-concept, motivation, confidence, anxiety, aggression and cohesion, stress, and burnout. Performance enhancement skills (e.g., awareness) and techniques (e.g., imagery); youth sport, leaving sport, injury, disability sport, careers in sport psychology. (Y)

5521 Physical Education Psychology. Cr. 3
Psychological aspects of physical education: theories, principles, application. (W)

5522 Health Psychology. Cr. 3
Theories and applications. (B)

5523 Exercise Physiology. Cr. 3
Theories and principles. (B)

5740 Facility Planning, Design and Construction. Cr. 3
Process of planning, design and construction from dream of a new facility through its completion and opening for business. Methods of working with architects, consultants, engineers and contractors to design and build sports and recreation facilities that optimally support the programs that will use them. Overview of latest concepts, trends, and innovations in activity-related facilities. (S)

6200 Principles of Exercise Science. Cr. 2
Prereq: admission to exercise science graduate program or graduate program in closely related field; or senior standing with two or more courses in any of the following: biomechanics, exercise physiology, measurement and evaluation, motor development/learning/control, or sports psychology. Survey of sub-disciplines in the field. (F)

6540 Workshop in Health, Physical Education, and Recreation. Cr. 1-3
Prereq: consent of adviser prior to registration. Future and current professionals explore topics of current interest, or work cooperatively on current problems in the field. (T)

6550 Publicity, Promotion and Public Relations. Cr. 2
Practical marketing methods and procedures used in promotion of athletics and KHS-related fields. Development of proposals, workshops, public relations policies. (F)

6560 Media Design and Communication. Cr. 2
Prereq: basic computer/word processing skills. Fundamentals of graphic design and layout for publication; use of computers in promoting, marketing, and managing health, physical education, recreation, and sports programs. (W)

6570 Sports Marketing. Cr. 3
Concepts and principles of marketing as applied to sports. Topics include: structure of sports industry, sports markets and products, market research, and sports sponsorships. (F)

6600 Role of the Health Professional in Substance Abuse. Cr. 3
Health professional’s role in identification, treatment and prevention of substance abuse. Basic drug terminology, theoretical perspectives in substance abuse; community and school environments. (W)

6640 Legal Issues in Health, Physical Education, and Recreation. Cr. 3
Identification and analysis of legal issues in the health, physical education, and recreation profession. Review of relevant litigation patterns. (Y)

6650 Health and Recreation Services for the Aged. Cr. 3
Physical, social and emotional aspects of aging. Emphasis on health maintenance and the leisure needs and opportunities of the elderly. (B)

6660 Risk Management in Physical Education and Sports. Cr. 3
Fundamentals of safety and liability and the risks involved in managing activity-related programs. Development of knowledge and skills to recognize potential litigation in management, supervision and administration. (F)

6750 Fieldwork in Health, Physical Education, and Recreation. Cr. 1-4
Prereq: consent of adviser. Professional experience in public or private institutions relevant to student’s specialization. Supervision by professional supervisor and university faculty. Can be taken at any time during student’s program. (F,W)

LIFESTYLE FITNESS ACTIVITIES COURSES (LFA)

1020 Individualized Skills Development Laboratory. Cr. 1-2 (Max. 4)
Prereq: written consent of chairperson for non-varsity athletes. Varsity athletes may elect only once per year for one credit per sport during the term of competition. Physical education credit for significant development and improvement of skills and associated knowledge in activity areas beyond the general education curriculum of the Division. (F,W)

1100 Swimming: Elementary. Cr. 2 (Max. 4)
Fundamental skills and knowledge in aquatics for beginners. (T)

1190 Lifeguard Training. Cr. 2
Prereq: level IV swimming skills. Lifeguarding and water safety procedures. Leads to lifeguard training certification. (F,W)

1200 Theory and Practice of Aquatics: Water Safety Instructor. Cr. 2
Prereq: lifeguard certification. Instructional methods and techniques in aquatics, water safety and survival; swimming program development; pool and waterfront administration and management. Can lead to American Red Cross Lifeguard Instructor and Water Safety Instructor certifications. (F,W)

1220 Cardio-Fit Kickboxing. Cr. 2
Time-efficient workout that stimulates the cardiorespiratory and musculoskeletal systems. Structured routines for all fitness levels (basic, intermediate, advanced); utilizes only basic kickboxing techniques. (T)

1230 Sculpt, Stretch, and Tone. Cr. 2 (Max. 6)
Total-body resistance exercise program using hand weights, ankle weights, rubber tubing, adjustable step, and other flexible sources of resistance. High-repetition exercises concentrating on proper technique, body alignment, muscular development, sound biomechanical principles. (T)

1240 Step and Tone. Cr. 2
Cardiovascular and muscular endurance and strengthening program using the adjustable step, rubber tubing, and hand-held weights. Low-impact, high-intensity workout. Energy cost controlled by step height, music tempo, tubing tension, size of weights. (T)
Step Aerobics. Cr. 2 (Max. 4)
Cardiovascular and muscular endurance program using the adjustable step; designed for a low-impact, high-intensity workout. Energy cost as controlled by step height, music tempo, choreography. (Y)

Aquaerobics. Cr. 2 (Max. 4)
Cardiovascular and muscular endurance program using water resistance exercises performed to music; shallow water, low-impact; variable workout intensity, controlled by music tempo, choreography, and optional use of additional resistance devices. Swimming skills not necessary. (Y)

High/Low Aerobics. Cr. 2 (Max. 4)
Rhythmic exercise designed to improve cardiovascular capability. Emphasis on popular dance routines. Includes theoretical components concerned with monitoring heart rate, significance of oxygen uptake, establishing appropriate aerobic training zones, and implications for cardiovascular health. (F,W)

Running: Techniques and Training. Cr. 2 (Max. 8)
Carefully controlled, personalized program activities designed to maintain or improve the level of cardio-respiratory conditioning of the participant; prescription for future levels of activity from the class experience. (T)

Rock Climbing: Basic. Cr. 1
Prereq: good physical condition. Two Friday field trips required. Introduction to the basic principles and techniques of technical rock climbing. Field trips. (F)

Bowling. Cr. 2 (Max. 4)
Bowling lane rental fee: $25. Analysis and practice of skills. Information on scoring procedures, rules, tournament play. (F,W)

Golf. Cr. 2 (Max. 4)
Analysis and practice of fundamentals focused on development of correct form in the use of different clubs. (F,W)

Yoga. Cr. 2 (Max. 4)
Yoga physical exercises to shape and strengthen the human body. Psychosomatic influences used to develop resistance against stress and to train the body and mind to relax. Utilization of autosuggestion to influence lifestyle. (F,W)

Racquetball: Beginning. Cr. 2 (Max. 4)
Basic strokes, history, rules, equipment and game courtesy. Introduction to singles and doubles game competition. (T)

Basketball: Fundamental Skills. Cr. 2 (Max. 4)
Analysis and practice of fundamental skills, team play, and rules of basketball. (I)

Basketball: Shooting Skills and Strategies. Cr. 2 (Max. 6)
Analysis and practice of intermediate and advanced shot-making skills and game strategies. (I)

Tennis: Beginning. Cr. 2 (Max. 4)
Analysis and practice of basic strokes, singles and doubles play, strategy, rule interpretation. (T)

Weightlifting and Training. Cr. 2 (Max. 4)
Analysis and practice of approved lifting techniques and use of weight training for conditioning purposes. (T)

Fencing: Beginning. Cr. 2 (Max. 4)
Analysis and practice of skills, rules, strategy, conduct of competitive means. (F,W)

Fencing: Intermediate/Advanced. Cr. 2 (Max. 8)
Prereq: basic fencing skills. (F,W)
Assistant Dean: Sharon Elliott  
Office: 241 Education Building; 577-0902  
Website: http://www.coe.wayne.edu/org/TED/index.html

Professors  
Janice Hale, Leonard Kaplan, Michael Peterson, R. Craig Roney, Gary R. Smith, David Whitin

Associate Professors  
Navez Bhavangri, John S. Camp, Ann Cavallo, Jazlin Ebenezer, Thomas Edwards, Sharon Elliott, Karen Feathers, Steve Ilmer, John T. Norman, Jr., Gerald Oglan, Joseph Sales, Sr., Jacqueline Tilles, Phyllis Whitin, Paula Wood

Assistant Professors  
Gina DeBlase, Holly Feen, Maria Ferreira, Mark Larson, Randy Lattimore, Michael Muise, Sally K. Roberts, Marc H. Rosa, Jo-Ann Snyder, Marshall Zumberg

Senior Lecturer  
Bob Pettapiece

Lecturers  
Elsie Babcock, Anne Williamson, Hal Dittenber, Placidia Frierson, Carole Hamilton, Anna Miller, Janet Windemuth

Degree and Certificate Programs

**BACHELOR OF ARTS in Education**  
with majors in the following areas:  
Art Education  
Career and Technical Education  
Elementary Education  
English Education—Secondary  
Mathematics Education  
Science Education  
Social Studies Education—Secondary  
Special Education—with concentrations in:  
  - Speech Impaired  
  - Mentally Impaired  
Speech Education—Secondary

**BACHELOR OF SCIENCE in Education**  
with majors in the areas listed above

All of the baccalaureate degree programs listed above lead to Michigan Provisional Certification.

**MASTER OF ARTS IN TEACHING**  
with majors in:  
Elementary Education—with concentrations in:  
  - Bilingual-Bicultural Education  
  - Early Childhood Education  
  - General Elementary Education  
Secondary Education—with concentrations in:  
  - Art Education  
  - Bilingual-Bicultural Education (Minor)  
  - Career and Technical Education  
  - English Education  
  - Foreign Language Education  
  - Mathematics Education  
  - Science Education  
  - Social Studies Education

**MASTER OF EDUCATION**  
with majors in:  
Art Education  
Bilingual-Bicultural Education—with a concentration in:  
  - Bilingual Education  
  - English as a Second Language  
Career and Technical Education  
Early Childhood Education  
Elementary Education—with concentrations in:  
  - Early Childhood Education  
  - Language Arts and Reading  
  - Literature for Children  
  - Mathematics Education  
  - Science Education  
  - Social Studies Education  
English Education—Secondary—with concentrations in:  
  - English Education  
  - English as a Second Language  
Foreign Language Education—Secondary—with concentrations in:  
  - Foreign Language  
  - English as a Second Language  
Mathematics Education  
Reading  
Science Education  
Social Studies Education—Secondary  
Special Education—with concentrations in:  
  - Cognitive Impairment  
  - Early Childhood  
  - Emotionally Impaired  
  - Learning Disabilities

**EDUCATION SPECIALIST CERTIFICATE**  
Curriculum and Instruction—with concentrations in:  
  - Art Education  
  - Bilingual-Bicultural Education (Ed.D. only)  
  - Career and Technical Education  
  - Early Childhood Education  
  - Elementary Curriculum and Instruction  
  - Mathematics Education  
  - Middle Level Education  
  - Science Education  
  - Secondary Curriculum and Instruction  
  - Reading, Language and Literature  
  - Special Education

**ED.D. AND PH.D. DEGREE MAJORS**  
Curriculum and Instruction—with concentrations in:  
  - Art Education  
  - Bilingual-Bicultural Education (Ed.D. only)  
  - Career and Technical Education  
  - Early Childhood Education  
  - Elementary Education  
  - English Education—Secondary  
  - Foreign Language Education—Secondary  
  - General Education  
  - K-12 Curriculum  
  - Mathematics Education  
  - Science Education  
  - Secondary Education  
  - Social Studies Education—Secondary  
  - Reading, Language and Literature (Ed.D. only)  
  - Special Education

* For specific requirements, see the Wayne State University Graduate Bulletin.
Post-degree programs are also available to those who wish to qualify for elementary or secondary certification (with the exception of special education) in the above named areas but who do not wish to enter a Master of Arts in Teaching degree program.

Combined programs in secondary education are available in the following curriculum areas in which students complete requirements leading to baccalaureate degrees in the College of Liberal Arts, the College of Science, or the College of Fine, Performing and Communication Arts, and the teaching certificate requirements in the College of Education:

COLLEGE OF LIBERAL ARTS
Economics, English, French, Geography, German, History, Italian, Latin, Political Science, Russian, Spanish

COLLEGE OF FINE, PERFORMING and COMMUNICATION ARTS
Communication, Dance, Music

COLLEGE OF SCIENCE
Biology, Chemistry, Geology, Mathematics, Physics

BACHELOR’S DEGREES

Admission — Freshmen and Sophomores
— entering with less than two years of college credit
All students intending to pursue a teaching curriculum (except in the fields of art education or kinesiology) who enter the University directly from high school, or transfer from other colleges with less than fifty-three semester credits, are admitted by the University Admissions Office into the College of Liberal Arts for pre-education course work.

Students intending to prepare for teaching in any of the areas cited as exceptions above, with less than fifty-three semester credits, are admitted directly to the College of Education. Admission for each of these groups is through the University Office of Admissions, Welcome Center, 42 W. Warren Ave., P.O. Box 02759, Detroit, Michigan 48202; telephone: 577-3577.

For information regarding application procedures, admission requirements and fees please refer to the General Information section of this bulletin, page 15.

Admission — Juniors and Above
— entering with two or more years of college credit

The standards listed below apply to those students entering the College of Education for the first time with junior year or higher standing, those working for a secondary or elementary school teaching certificate, those in a combined degree program, and those previously admitted at the freshman or sophomore level to the College of Education in the fields listed above.

Eligibility for admission is based on the following criteria:

1. Satisfactory Completion of Two Years of College Work: A minimum of fifty-three semester or eighty quarter credits of work must be completed with an overall grade point average of 2.5 or above. In addition, the grade point average for any course work taken at Wayne State University must also be 2.5 or above. This work should generally conform to the two years of pre-professional work prescribed by the College for students who expect to prepare for teaching. The quality of work, especially in the major area, must indicate a strong potential for success in a teacher-education program.

2. English and Mathematics Competency Examinations: All Education students must satisfactorily complete the University English Proficiency Examination and fulfill the University Mathematics Proficiency Requirements prior to admission to the College of Education (see page 24).

3. State Basic Skills Test: All students must pass the Michigan State Basic Skills Test prior to admission. For information and test dates, contact 469 Education Building (telephone: 313-577-1601).

4. Physical Health: Definite standards of health must be met by all students entering the College. All students are required to pass a T.B. test prior to admission to the College.

5. Group Work Experience: All students must have verifiable successful group work experience with children.

6. Specific Prerequisites or other special requirements of the curriculum area for which the student is applying.

College Admission Application

Upon completion of two years of college course work (a minimum of fifty-three semester credits) at Wayne State University, students who intend to teach should apply to the College of Education for admission. Applicants who have completed college work in institutions other than Wayne State must first apply for admission through the University Office of Admissions, Welcome Center, 42 W. Warren Ave., P.O. Box 02759, Detroit, Michigan 48202; telephone: 577-3577.
Students who intend to receive degrees from other colleges in the University and a teaching certificate from the College of Education must apply to the Combined Program through Academic Services, 469 Education Building. All applicants to the College of Education must attend an orientation session.

**BACHELOR’S DEGREE REQUIREMENTS**  
**Leading to Michigan Provisional Certification**

Candidates for the Bachelor of Arts or Bachelor of Science degree in Education must complete at least 124 credits in course work with a minimum grade point average of 2.5. No grade below a ‘C’ may be used to meet requirements specific to elementary education, the major, the minor (including the planned minor), or professional education courses; a grade of ‘C-minus’ is not acceptable.

The following outline presents the general distribution of credits to be used to meet requirements specific to elementary education, the major, the minor (including the planned minor), or professional education courses; a grade of ‘C-minus’ is not acceptable.

1. Forty credits in pre-professional coursework including 6-8 credits in English (ENG 1020, plus one course at the 2000 level or above) and courses specified by individual program areas.
2. Completion of the appropriate professional education sequence.
3. Completion of majors and minors appropriate to the student’s intended level of certification.
4. Three credits in hygiene, first aid, health of the school child, or comprehensive school health education.
5. Completion of University General Education and Competency requirements (see page 23).
6. Michigan Test for Teacher Certification:
   a. Elementary Education: Elementary Education Test. Examination in major subject area is also recommended in order to teach grades 6-8.
   b. Secondary Education: Tests in major and minor subject areas.

**Bachelor of Arts in Education Language Requirement:** In addition to the above requirements, the Bachelor of Arts degree requires twelve credits in a foreign language.

**Bachelor’s Degree Programs in Elementary Education**  
**Leading to K-8 Certification**

The elementary certificate qualifies the holder to teach all subjects in kindergarten through grade five and all K-8 subjects in a self-contained classroom. Additionally, the major and minor subjects may be taught in the sixth through eighth grade.

**Admission Requirements:** see above, page 102.

**DEGREE REQUIREMENTS:** The following requirements in various curricular areas supplement the degree requirements outlined above.

**PRE-PROFESSIONAL REQUIREMENTS:** The following courses and course options are required of all students seeking K-8 certification, regardless of selection of major and minor studies. Some of these courses may also satisfy the University General Education Requirements (see page 23), but the dual application of any course to both College and University General Education categories cannot be reduced to the total degree requirement below 124 credits. No grade below ‘C’ may be used to meet requirements specific to elementary education, the major, the minor (including the planned minor), or professional education courses; a grade of ‘C-minus’ is not acceptable.

**ENGLISH (Two Courses)**
- ENG 1020 -- (BC) Introductory College Writing: Cr. 4
- Intermediate Composition (IC) -- see General Education Requirements, page 23

**FOREIGN CULTURE (see General Education Requirements, page 23)**

**HEALTH (One Course)**
- H E 3300 -- Health of the School Child: Cr. 3
- HEA 2310 -- Dynamics of Personal Health: Cr. 3
- HEA 2330 -- First Aid and CPR: Cr. 3
- H E 6500 -- Comprehensive School Health Education: Cr. 3

**HISTORICAL STUDIES (One Course)**
- HIS 1100 -- (HS) The Ancient World: Cr. 3-4
- HIS 1200 -- (HS) The Medieval World: Cr. 3-4
- HIS 1300 -- (HS) Europe and the World: 1500-1945: Cr. 3-4
- HIS 1400 -- (HS) The World Since 1945: Cr. 3-4
- HIS 1600 -- (HS) African Civilizations to 1800: Cr. 4
- HIS 1610 -- (HS) African Civilizations Since 1800: Cr. 4
- HIS 1800 -- (HS) The Age of Islamic Empires: 600-1600: Cr. 3
- HIS 1810 -- (HS) (NE 2040) The Modern Middle East: Cr. 3
- HIS 1995 -- (HS) Society and the Economic Transition: Cr. 3
- ANT 3200 -- (HS) Lost Cities and Ancient Civilizations: Cr. 3

**HUMANITIES (see General Education Requirements, page 23)**

**NATURAL SCIENCE (Three Courses, one of which must include an approved laboratory, which is associated with all of the following courses when elected for maximum credit, except BIO 1030)**

**PHYSICAL SCIENCES (select one)**
- AST 2010 -- (PS) Descriptive Astronomy: Cr. 4
- CHM 1000 -- (PS) Chemistry and Your World: Cr. 3-4
- CHM 1020 -- (PS) General Chemistry I: Cr. 4
- CHM 1220 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 4
- CHM 1230 -- Chemical Principles in the Lab: Cr. 1
- CHM 1410 -- (PS) Chemical Principles I: General/Organic: Cr. 6
- GEL 1010 -- (PS) Geology: The Science of the Earth: Cr. 4
- PHY 1020 -- (PS) Conceptual Physics: The Basic Science: Cr. 3-4
- PHY 1040 -- (PS) Einstein, Relativity & Quanta: Intro.: Cr. 3-4
- PHY 2130 -- (PS) General Physics: Cr. 3
- PHY 2131 -- General Physics Lab: Cr. 1
- PHY 2170 -- (PS) General Physics: Cr. 4
- PHY 2171 -- General Physics Lab: Cr. 1
- PHY 3100 -- (PS) The Sounds of Music: Cr. 4

**LIFE SCIENCES (elect two):**
- PSY 1010 -- (LS) Introductory Psychology (Required Course): Cr. 4
- BIO 1510 or BIO 1030 or BIO 1050 or BIO 1500
  -- (LS) Basic Life Mechanisms: Cr. 3-4
  -- (LS) Biology Today: Cr. 3-4
  -- (LS) An Introduction to Life: Cr. 3-4
  -- Basic Life Diversity: Cr. 4

**MATHEMATICS (Two Courses)**
- MAE 5050 and 5060 -- Math. for Elem. School Teachers I & II: Cr. 6

**SOCIAL STUDIES (Three Courses)**

**AMERICAN SOCIETY AND INSTITUTIONS:**
- P S 1010 or P S 1030
  -- (AI) American Government: Cr. 4
  -- (AI) The American Governmental System: Cr. 3

**BASIC SOCIAL SCIENCES:**
- GPH 1100 -- (SS) World Regional Patterns: Cr. 4
- HIS 2040 or HIS 2050
  -- United States to 1877: Cr. 3-4
  -- United States since 1877: Cr. 3-4

**SPEECH (One Course)**
- COM 1010 -- (OC) Oral Communication: Basic Speech: Cr. 3
INFORMATION POWER: Required of all newly-matriculated undergraduate students who transfer twelve or fewer credits to Wayne State, prior to completion of thirty credits at Wayne State, preferably during the first semester in residence:
UGE 1000 -- (GE) Information Power: Cr. 1

PROFESSIONAL EDUCATION REQUIREMENTS: The following courses are required of all students seeking K-8 certification, regardless of selection of major or minor studies. Courses must be completed with a grade of ‘C’ or above.
The following courses may be taken while in the College of Liberal Arts:

One Health (HEA) course
PSY 1010 -- (LS) Introductory Psychology: Cr. 4
One Biology course from: BIO 1030, 1050, 1500, or 1510
MAT 1110 -- Math. for Elem. School Teachers I: Cr. 3
MAT 1120 -- Math. for Elem. School Teachers II: Cr. 3
HIS 2040 or HIS 2050
-- History of the U.S. to 1877: Cr. 3
-- History of the U.S. Since 1877: Cr. 3
P S 1010 or 1030
-- (AI) American Government: Cr. 4
-- (AI) American Governmental System: Cr. 3
GPH 1100 -- (SS) World Regional Patterns: Cr. 4
ELE 3200 -- Literature for Children: Cr. 3
SCE 5010 or SCE 5020
-- Biological Sci. for Elem. & Middle School Teachers: Cr. 3
-- Physical Sci. for Elem. & Middle School Teachers: Cr. 3

The following courses, except those marked with an asterisk (*), may be taken only after admission to the College of Education:

CAMPUS COURSES
BBE 5000 -- Multicultural Education in Urban America*: Cr. 2
EDP 3310 -- Educational Psychology: Cr. 3
ELE 3300 -- Teaching Language Arts: Preprimary-9: Cr. 3
ELE 3400 -- Teaching Mathematics: Preprimary-9: Cr. 3
ELE 3500 -- Teaching Science: Preprimary-9: Cr. 3
ELE 3600 -- Teaching Social Studies: Preprimary-9: Cr. 3
RDG 4430 -- Tochg. Reading in Subj. Matter Areas: Cr. 3
SED 5010 -- Exceptional Child in the Regular Classroom*: Cr. 2
TED 6020 -- Computer Applications in Teaching I*: Cr. 3
ELE 6070 -- Family, Community, and School Partnerships: Cr. 3

FIELD COURSES (Off-Campus): Courses listed below are taken in public schools in the Detroit metropolitan area. They must be completed in the order given. All of the courses in the professional sequence must be completed before entering TED 5780.

TED 3550 -- (WI) Teaching: Research, Theory & Practice: Cr. 5
ELE 3320 -- Teaching Reading I: Emergent Literacy: Cr. 3
ELE 3300 -- Teaching Language Arts: Preprimary-9: Cr. 3

FINAL FIELD EXPERIENCE
TED 5780 -- Directed Teaching and Conference: Cr. 10

EARLY CHILDHOOD FIELD EXPERIENCE
All students enrolling in the Early Childhood program must have a Minor in Early Childhood.
TED 5790 -- Student Teaching & Conference: Special Groups: Cr. 5
ELE 6080 -- Preprimary Goals and Practices: Cr. 3

EARLY CHILDHOOD FINAL FIELD EXPERIENCE
TED 5780 -- Directed Teaching and Conference: Cr. 8

MAJOR AREAS OF STUDY: Students seeking a K-5 certification must complete a major and a minor, or three minors:

ENGLISH MAJOR (Minimum Thirty Credits)
ENG 2200 -- (PL) Shakespeare: Cr. 3

PHILMAJOR (Minimum Forty Credits)

MATHEMATICS MAJOR (Minimum Thirty Credits)

FOREIGN LANGUAGE MAJOR (Thirty to Thirty-five Credits)
French, Italian, and Spanish are the only languages in which Major concentrations are offered. Computation of the thirty required credits includes any and only courses taken at the university level. Courses taught in English translation will not apply toward fulfilling major.

MATHMATICS MAJOR (Minimum Thirty Credits)
The following courses plus all of the courses listed under the Mathematics Minor (see below, under ‘Minor Areas of Study’):

MAT 1110 -- Math. for Elementary School Teachers I: Cr. 3
MAT 1120 -- Math. for Elementary School Teachers II: Cr. 3
MAE 5100 -- Math. for Middle/High School Teachers: Cr. 3
MAE 5120 -- Number Theory/Algebra: Middle School Teachers: Cr. 3
MAT 1800 -- Elementary Functions 1*: Cr. 4
MAT 2010 -- Calculus I*: Cr. 4
STA 1020 or MAT 2210
-- Elementary Statistics: Cr. 3
-- Probability and Statistics for Teachers: Cr. 4

Plus ONE of the following Options:

Option I:
MAT 1860 -- Discrete Mathematics for Computer Science: Cr. 4
MAE 5130 -- Problem Solving for Middle School Teachers: Cr. 3

Option II:
MAT 2020 -- Calculus II: Cr. 4
MAT 2860 -- Discrete Mathematics for Teachers: Cr. 4

NATURAL SCIENCE GROUP MAJOR (Thirty-six Credits)

PSY 1010 -- (LS) Introductory Psychology: Cr. 4
One Biology course from: BIO 1030, 1050, 1500, or 1510
ENG 2310 or ENG 3140 or ENG 5450

ENG 2390 or ENG 5480
-- (IC) Intro. to African American Lit. (AFS 2390): Cr. 4
-- Topics in African American Literature: Cr. 3

ENG 2530 or ENG 2540
-- Literature and Identity: Cr. 3
-- Literatures of the World: Cr. 3

ENG 2310 or ENG 3140 or ENG 5450
-- Major American Books: Cr. 3
-- (PL) Survey of American Literature: Cr. 3
-- Modern American Literature: Cr. 3

ENG 2600 or ENG 2110 or ENG 2800
-- Intro. to Folklore: Cr. 3
-- (IC) Introduction to Drama: Cr. 3
-- Techniques of Imaginative Writing: Cr. 4

ENG 3110 -- (PL) English Literature to 1700: Cr. 3
ENG 3120 -- (PL) English Literature after 1700: Cr. 3
ENG 5720 -- Topics in Language: Linguistics and Education: Cr. 3

LANGUAGE ARTS GROUP MAJOR (Minimum Thirty-six Credits)

ENG 2390 or ENG 5480
-- (IC) Intro. to African-American Lit. (AFS 2390): Cr. 4
-- Topics in African American Literature: Cr. 3

EED 6210 -- Language, Literacy & Learning: Cr. 3
ENG 2800 -- Techniques of Imaginative Writing: Cr. 4
ENG 3010 -- (IC) Intermediate Writing: Cr. 3
ENG 3110 -- (PL) Techniques of Imaginative Writing: Cr. 4
ENG 3120 -- (PL) English Literature to 1700: Cr. 3
ENG 3140 -- (PL) English Literature after 1700: Cr. 3
ENG 6310 -- Young Adult Literature: Cr. 3
EED 6310 -- Survey of Mass Communications: Cr. 3
COM 2500 -- Oral Interpretation of Literature: Cr. 3

Speech Elective: Cr. 3

FRENCH, ITALIAN, AND SPANISH are the only languages in which Major concentrations are offered. Computation of the thirty required credits includes any and only courses taken at the university level. Courses taught in English translation will not apply toward fulfilling major.

MATHMATICS MAJOR (Minimum Thirty Credits)
The following courses plus all of the courses listed under the Mathematics Minor (see below, under ‘Minor Areas of Study’):

MAT 1110 -- Math. for Elementary School Teachers I: Cr. 3
MAT 1120 -- Math. for Elementary School Teachers II: Cr. 3
MAE 5100 -- Math. for Middle/High School Teachers: Cr. 3
MAE 5120 -- Number Theory/Algebra: Middle School Teachers: Cr. 3
MAT 1800 -- Elementary Functions 1*: Cr. 4
MAT 2010 -- Calculus I*: Cr. 4
STA 1020 or MAT 2210
-- Elementary Statistics: Cr. 3
-- Probability and Statistics for Teachers: Cr. 4

MAT 1860 -- Discrete Mathematics for Computer Science: Cr. 4
MAE 5130 -- Problem Solving for Middle School Teachers: Cr. 3

MAT 2020 -- Calculus II: Cr. 4
MAT 2860 -- Discrete Mathematics for Teachers: Cr. 4

NATURAL SCIENCE GROUP MAJOR (Thirty-six Credits)

AST 2010 -- (PS) Descriptive Astronomy: Cr. 4
PHY 1020 -- (PS) Conceptual Physics: The Basic Science: Cr. 3-4
BIO 1500 -- Basic Life Diversity: Cr. 4
BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 4
GEL 1010 -- (PS) Geology: The Science of the Earth: Cr. 4
CHM 1020 -- (PS) General Chemistry I: Cr. 4

1. May be elected while in the College of Liberal Arts.
CHM 1030 -- General Chemistry II: Cr. 4
SCE 5010 -- Biol. Sci. for Elem. & Middle School Teachers: Cr. 3
SCE 5020 -- Physical Sci. for Elem. & Middle School Teachers: Cr. 3
SCE 5040 -- Field Course Exploring the Natural Environment: Cr. 3

SOCIAL STUDIES GROUP MAJOR (Thirty-six Credits)
P S 1010 or P S 1030
-- (AI) American Government: Cr. 4
-- (AI) The American Governmental System: Cr. 3
P S 3070 -- Michigan Politics: Cr. 4
GPH 1100 -- (SS) World Regional Patterns: Cr. 4
GPH 2200 -- Geography of Michigan: Cr. 3
HIS 2050 -- United States Since 1877: Cr. 3-4
HIS 2240 -- History of Michigan: Cr. 3-4
HIS 1100 -- (HS) The Ancient World: Cr. 3-4
HIS 1200 -- (HS) The Medieval World: Cr. 3-4
HIS 2040 -- United States to 1877: Cr. 3-4
ECO 2010 -- (SS) Principles of Microeconomics: Cr. 3-4
ECO 2020 -- (SS) Principles of Macroeconomics: Cr. 3-4

MINOR AREAS OF STUDY: Additional endorsement areas available to elementary students:

BILINGUAL-BICULTURAL MINOR (Twenty-four Credits)
Note: The student must take the language proficiency examination by the time he/she has completed twelve credits; the exam must be satisfactorily passed before completion of the program.
BBE 5000 -- Multicultural Education in Urban America: Cr. 2
BBE 5020 -- Involvement of Parents in School & Community: Cr. 3
BBE 5500 -- Introduction to Bilingual/Bicultural Education: Cr. 3
BBE 6560 -- Teaching Methods in Bilingual/Bicultural Ed.: Cr. 3
BBE 6590 -- Culture and Language in BBE: Cr. 3
BBE 6800 -- Internship in Bilingual/Bicultural Teaching: Cr. 4
BBE 6850 -- Applied Linguistics: Issues in Bilingual Education: Cr. 3
LED 6520 -- Teaching English as Second/Foreign Language: Cr. 3

DANCE MINOR (Twenty-seven Credits)
DNC 2000 -- (VP) Introduction to Dance: Cr. 4
DNC 2010 -- Technique Laboratory I: Part I: Cr. 2
DNC 2020 -- Technique Laboratory I: Part II: Cr. 2
DNC 2210 -- Ballet III: Cr. 2
DNC 2310 -- (VP) History of Dance from 1800: Cr. 3
DNC 3010 -- Technique Laboratory II: Cr. 2
DNC 2500 -- Choreography I: Cr. 2
DNC 5610 -- Dance Company I: Cr. 1
DNE 4810 -- Methods in Modern Dance & Ballet: Cr. 3
DNE 5810 -- Creative Dance for Children: Cr. 3

A Dance Minor carries K-12 certification. For information, contact Professor Eva Powers, 577-4273.

EARLY CHILDHOOD MINOR (Minimum Twenty-four Credits)
Note: With the exception of ELE 3200 and PSY 3430, these courses may not be taken prior to admission to the College of Education.
ELE 3200 -- Literature for Children: Cr. 3
ELE 6020 -- Seminar in Early Childhood: Cr. 3
ELE 6040 -- Content Areas in Early Childhood Education: Cr. 3
ELE 6070 -- Family, Community and School Partnerships: Cr. 3
ELE 6080 -- Preprimary Goals and Practices: Cr. 3
ELE 6340 -- Teaching Reading in Early Childhood Education: Cr. 3
PSY 3430 -- Infant Development: Cr. 3
Early Childhood Electives: Cr. 3-4

ENGLISH MINOR (Minimum Twenty Credits)
ENG 2200 -- (PL) Shakespeare: Cr. 3
ENG 3120 -- (PL) English Literature after 1700: Cr. 3
ENG 3140 -- (PL) Survey of American Literature: Cr. 3

ENG 2390 or ENG 5480
-- (IC) Intro. to African American Lit. (AFS 2390): Cr. 4
-- Topics in African American Literature: Cr. 3
ENG 2530 or ENG 2540
-- Literature and Identity: Cr. 3
-- Literatures of the World: Cr. 3

ENG 5720 -- Topics in Language: Linguistics and Education: Cr. 3
ENG 2600 or ENG 2110 or ENG 2800
-- Intro. to Folklore: Cr. 3
-- (IC) Introduction to Drama: Cr. 3
-- Techniques of Imaginative Writing: Cr. 4

PLUS English electives (e.g., ENG 2100, 2310, 2600, 3100 [highly recommended], 5450, etc.)

LANGUAGE ARTS GROUP MINOR (Twenty-four Credits)
ENG 2800 -- Techniques of Imaginative Writing: Cr. 4
ENG 2390 -- (IC) Intro. to African-American Lit. (AFS 2390): Cr. 4
ENG 3010 -- (IC) Intermediate Writing: Cr. 3
ENG 3140 -- (PL) Survey of American Literature: Cr. 3
EED 6210 -- Language, Literacy and Learning: Cr. 3
COM 1500 -- Survey of Mass Communications: Cr. 3
COM 2500 -- Oral Interpretation of Literature: Cr. 3

FOREIGN LANGUAGE MINOR (Twenty to Twenty-four Credits)
French, Italian, Latin, and Spanish are the only languages in which Minor concentrations are offered. Computation of the twenty required credits includes any and only courses taken at the university level. Courses in literature in English translation cannot be used to fulfill foreign language requirement.

HEALTH EDUCATION MINOR (Twenty-four Credits)
BIO 1050 -- (LS) An Introduction to Life: Cr. 3
HEA 2310 -- Dynamics of Personal Health: Cr. 3
HEA 2330 -- First Aid and CPR: Cr. 3
H E 3300 -- Health of the School Child: Cr. 3
H E 3440 -- Nutrition and Health Education: Cr. 3
H E 3330 -- School Health Education: Cr. 3
H E 4340 -- Family and Reproductive Health: Cr. 3
H E 5440 -- Mental Health and Substance Abuse: Cr. 3

MATHEMATICS MINOR (Minimum Twenty Credits)
MAT 1110 -- Mathematics for Elementary School Teachers I: Cr. 3
MAT 1120 -- Mathematics for Elementary School Teachers II: Cr. 3
MAT 1500 -- Math. for Middle & Junior High School Teachers I: Cr. 3
MAT 5120 -- Number Theory & Algebra for Middle School Tchrs: Cr. 3
MAT 1800 -- Elementary Functions: Cr. 4
MAT 2010 -- Calculus I: Cr. 4

MIDDLE-SCHOOL LEVEL PROFESSIONAL SPECIALIZATION (Minimum Twenty-four Credits plus Field Experience)
EDP 5480 -- Adolescent Psychology: Cr. 3
CED 6700 -- Role of Teacher in Guidance: Cr. 2
TED 5250 -- Teaching the Emerging Adolescent: Middle Level: Cr. 3

Phase II or pre-student teaching in Grades 6-8:
ELE 3320 or TED 5160
-- Teaching Reading: Emergent Literacy: Cr. 3
-- (WI) Analysis of Middle and Secondary School Tchng.: Cr. 3
RDG 6400 -- Practicum in Developmental Reading
(with Middle-level students): Cr. 3

Two Methods courses from two different teaching areas
Field experience (credit does not count toward endorsement):
TED 5780 -- Directed Tchng. & Conference (in Grades 6-8): Cr. 1-10

NATURAL SCIENCE GROUP MINOR (Twenty-four Credits)
AST 2010 -- (PS) Descriptive Astronomy: Cr. 4
BIO 1050 -- (LS) An Introduction to Life: Cr. 4
PHY 1020 -- (PS) Conceptual Physics: The Basic Science: Cr. 3-4
CHM 1000 -- (PS) Chemistry and Your World: Cr. 3
GEL 1010 -- (PS) Geology: The Science of the Earth: Cr. 4

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1. May be elected while in the College of Liberal Arts.
SCE 5020 -- Physical Sci. for Elementary & Middle School Teachers: Cr. 3

KINESIOLOGY MINOR (Twenty-one Credits)

REQUIRED CORE (Fifteen Credits):
KIN 5440 -- Physical Education for Elem. School Children I: Cr. 3
KIN 5450 -- Physical Education for Elem. School Children II: Cr. 3
KIN 2580 -- KIN in Secondary Schools I: Cr. 3
KIN 2590 -- KIN in Secondary Schools II: Cr. 3
KIN 2010 -- Psycho/Psychological Foundations of Phys. Activity: Cr. 3

Plus two courses (six credits) from the following:
KIN 3400 -- Lifespan Growth and Development: Cr. 3
KIN 3550 -- (WI) Motor Learning and Control: Cr. 3
KIN 5570 -- Physiology of Exercise I: Cr. 3
KIN 3980 -- Biomechanics (Prereq: BIO 2870 or equiv.): Cr. 3

Students must contact the Kinesiology Department for advising: appointments may be made by calling 577-4265. Courses may be taken only after admission to the College of Education.

SOCIAL STUDIES GROUP MINOR (Twenty-four Credits)

P S 1010 or P S 1030
-- (AI) American Government: Cr. 4
-- (AI) The American Governmental System: Cr. 3
P S 3070 -- Michigan Politics: Cr. 4
GPH 1100 -- (SS) World Regional Patterns: Cr. 4
GPH 2200 -- Geography of Michigan: Cr. 3
HIS 1100 or HIS 1200
-- (HS) The Ancient World: Cr. 3
-- (HS) The Medieval World: Cr. 3
HIS 2040 or HIS 2050
-- United States to 1877: Cr. 3
-- United States Since 1877: Cr. 3
ECO 1000 -- (SS) Survey of Economics: Cr. 4
ECO elective (ECO 2010 or 2020) (SS): Cr. 3-4

Bachelor's Degree Programs in Secondary Education Leading to Grades 7 - 12

Certification

The secondary education curriculum leads to a bachelor's degree in education and secondary school teaching certification in the major and minor areas listed below. Whereas this degree is granted by the College of Education, students also have the option of earning secondary school certification in conjunction with a bachelor's degree from the College of Liberal Arts, the College of Fine, Performing and Communication Arts, or the College of Science. For information regarding these combined degree programs, see page 174 and 383, respectively.

Admission Requirements: see page 102.

DEGREE REQUIREMENTS: The following requirements in various curricular areas supplement the degree requirements outlined above (see page 103).

PRE-PROFESSIONAL REQUIREMENTS: The following courses and course options are required of all students seeking secondary (grades 7-12) certification regardless of selection of major or minor studies. Some of these courses may also satisfy the University General Education Requirements, but the dual application of any course to both College and University General Education categories cannot be used to reduce the total degree requirement below 124 credits.

No grade below 'C' may be used to meet requirements specific to secondary education, the major, the minor (including the planned minor), or professional education courses; a grade of 'C-minus' is not acceptable.

GENERAL COURSE REQUIREMENTS

ENG 1020 -- (BC) Introductory College Writing: Cr. 4
Intermediate Composition (IC) course: Cr. 3-4

One 2000-level (or above) English course: Cr. 3-4

COM 1010 -- (OC) Oral Communication: Basic Speech: Cr. 3

HEA 2330 or H E 3300 or HEA 2310 or H E 6500
-- First Aid and CPR: Cr. 3
-- Health of the School Child: Cr. 3
-- Dynamics of Personal Health: Cr. 3
-- Comprehensive School Health Education: Cr. 3

TED 2250 -- Introduction to Education (optional): Cr. 3

FOREIGN CULTURE (see General Education, page 23)

HISTORICAL STUDIES (One Course)

ANT 3200 -- (HS) Lost Cities and Ancient Civilizations: Cr. 3
HIS 1100 -- (HS) The Ancient World: Cr. 3-4
HIS 1200 -- (HS) The Medieval World: Cr. 3-4
HIS 1300 -- (HS) Europe and the World: 1500-1945: Cr. 3-4
HIS 1400 -- (HS) The World Since 1945: Cr. 3-4
HIS 1600 -- (HS) African Civilizations to 1800: Cr. 4
HIS 1610 -- (HS) African Civilizations Since 1800: Cr. 4
HIS 1800 -- (HS) The Age of Islamic Empires: 600-1600: Cr. 3
HIS 1810 -- (HS) (N E 2040) The Modern Middle East: Cr. 3
HIS 1995 -- (HS) Society and the Economic Transition: Cr. 3
ANT 3200 -- (HS) Lost Cities and Ancient Civilizations: Cr. 3

HUMANITIES (see General Education, page 23)

NATURAL SCIENCE (Three Courses, one of which must include an approved laboratory, which is associated with all of the following courses when elected for maximum credit, except BIO 1030)

PHYSICAL SCIENCES (elect one):
AST 2010 -- (PS) Descriptive Astronomy: Cr. 4
CHM 1020 -- (PS) General Chemistry I: Cr. 4
CHM 1220 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 4
CHM 1230 -- Chemical Principles in the Laboratory: Cr. 1
CHM 1240 -- General/Organic Chemistry: Cr. 4
CHM 1250 -- General/Organic Chemistry Lab: Cr. 1
GEL 1010 -- (PS) Geology: The Science of the Earth: Cr. 4
PHY 1020 -- (PS) Conceptual Physics: The Basic Science: Cr. 3-4
PHY 1040 -- (PS) Einstein, Relativity & Quanta: Intro.: Cr. 3-4
PHY 2130 -- (PS) General Physics: Cr. 3
PHY 2170 -- (PS) General Physics: Cr. 4
PHY 3100 -- (PS) The Sounds of Music: Cr. 4

NOTE: The four courses marked with an asterisk (*) in the following sections must be completed with a grade of 'C' or above.

LIFE SCIENCES (select two):
*PSY 1010 -- (LS) Introductory Psychology (Required Course): Cr. 4
*BIO 1510 or BIO 1030 or BIO 1050
-- (LS) Basic Life Mechanisms: Cr. 4
-- (LS) Biology Today: Cr. 3-4
-- (LS) An Introduction to Life: Cr. 3-4

SOCIAL STUDIES (Two Courses)

AMERICAN SOCIETY and INSTITUTIONS:
* P S 1010 or P S 1030
-- (AI) American Government: Cr. 4
-- (AI) The American Governmental System: Cr. 3

BASIC SOCIAL SCIENCES (SS) COURSE (elect one):
ANT 2100 -- (SS) Introduction to Anthropology: Cr. 4
ECO 1000 -- (SS) Survey of Economics: Cr. 4
ECO 2020 -- (SS) Principles of Macroeconomics: Cr. 4
GPH 1100 -- (SS) World Regional Patterns: Cr. 4
SOC 2000 -- (SS) Understanding Human Society: Cr. 3
SOC 2020 -- (SS) Social Problems: Cr. 3

HEALTH (One Course)

*HEA 2330 or H E 3300 or HEA 2310 or H E 6500
-- First Aid and CPR: Cr. 3
-- Health of the School Child: Cr. 3
-- Dynamics of Personal Health: Cr. 3
-- Comprehensive School Health Education: Cr. 3

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PROFESSIONAL EDUCATION REQUIREMENTS: The following courses may be taken only after admission to the College of Education and are required of all students seeking secondary (grades 7-12) certification. The selection of courses to fulfill the methods requirements I and II is predicated on the student's choice of major.

SEMMESTER I
TED 5160 -- (WI) Analysis of Middle and Secondary School Teaching (Coreq: TED 5650): Cr. 3
TED 5650 -- Pre-Student Teaching Field Experience for Secondary Majors (Coreq: TED 5160): Cr. 5

The following courses may be elected at any time after admission to the College of Education and must be completed prior to TED 5780:
RDG 4430 -- Teaching Reading in Subject Matter Areas: Cr. 3
EDP 5480 -- Adolescent Psychology: Cr. 3
EHP 3600 -- Intro. to Philosophy of Education: Cr. 3

Teaching methods in the major: Cr. 3
Teaching methods in the major: Cr. 3
Teaching methods in the minor: Cr. 3

The following courses may be elected at any time after admission to the College of Education:
SED 5010 -- Exceptional Child in the Regular Classroom: Cr. 2
TED 6020 -- Computer Applications in Teaching I: Cr. 3
BBE 5000 -- Multicultural Ed. in Urban America: Cr. 2

The Academic Major and Minor and MTTC subject area tests must be completed prior to student teaching.

FINAL FIELD EXPERIENCE
TED 5780 -- Directed Teaching and Conference: Cr. 10

TEACHING METHODS (Two Courses)

CAREER AND TECHNICAL EDUCATION
CTE 5410 -- Career and Technical Education: Cr. 3
CTE 6993 -- Special Problems in Career and Technical Education: Cr. 3

COMPUTER SCIENCE EDUCATION
IT 5110 -- Technology Applications in Education & Training: Cr. 3
IT 5120 -- Producing Technology-Based Instr. Materials: Cr. 2-3

ENGLISH EDUCATION
EED 5200 -- Methods of Teaching English: Grades 7-12: Cr. 3
EED 6120 or EED 6330
-- English Composition in Secondary Schools: Cr. 3
-- Teaching Literature in Secondary Schools: Cr. 3

FOREIGN LANGUAGE EDUCATION
LED 6520 -- Tchg. English as Second/Foreign Lang.: Meth. I: Cr. 3
LED 6530 -- Tchg. English as Second/Foreign Lang.: Meth. II: Cr. 3

MATHEMATICS EDUCATION
Consult a Mathematics Education adviser for possible substitutions and additional courses.
MAE 5150 -- Methods & Matsls. of Instruction -- Sec. Sch. Math.: Cr. 3
MAE 6050 -- Teaching Mathematics in Middle Grades: Cr. 3

MATHEMATICS MAJOR (Forty Credits)
MAT 2010 -- Calculus I: Cr. 4
MAT 2020 -- Calculus II: Cr. 4
MAT 2030 -- Calculus III: Cr. 4
MAT 2250 -- Elementary Linear Algebra: Cr. 3
MAT 5000 -- Foundation Concepts of Math. & Proof Writing: Cr. 3

MAT 2210 or MAT 5700
-- (MAT 6150) Probability and Statistics for Tchrs.: Cr. 4

MAT 2350 -- Elementary Differential Equations: Cr. 3
MAT 5070 -- Advanced Calculus: Cr. 4
MAT 5400 or MAT 5520
-- Elementary Theory of Numbers: Cr. 3
-- Introduction to Topology: Cr. 3

MAT 5420 -- Algebra I: Cr. 4
MAT 5610 -- Intro. to Analysis II: Cr. 4
MAT 6130 -- Discrete Math. for Teachers: Cr. 3
MAT 6140 -- Geometry: An Axiomatic Approach: Cr. 3

SECONDARY MATHEMATICS MINOR (Minimum 22-23 credits)
MAT 2010 -- Calculus I: Cr. 4
MAT 2020 -- Calculus II: Cr. 4
MAT 2030 -- Calculus III: Cr. 4
MAT 2250 -- Elementary Linear Algebra: Cr. 3

MAT 6130 -- Discrete Math. for Teachers: Cr. 3
MAT 6140 -- Geometry: An Axiomatic Approach: Cr. 3
MAT 6150 -- Probability and Statistics for Teachers: Cr. 4

SECONDARY SCIENCE MAJOR — SINGLE DISCIPLINE
Students who major in biology (thirty-six credits), chemistry (thirty-four credits), or physics (thirty-two credits) must follow the minimum requirements in the major that are designated for a Bachelor of Arts degree by the appropriate department in the College of Science. Students who major in chemistry must complete CHM 5600. Students who major in geology must complete

SPEECH EDUCATION
S E 6060 -- Teaching Communication at the Secondary Level: Cr. 3
EED 5200 -- Methods of Teaching English: Grades 7-12: Cr. 3

MAJOR AREAS OF STUDY: Students seeking secondary certification for grades 7-12 must complete one of the following majors:

ENGLISH MAJOR (Thirty Credits)
ENG 2200 -- (PL) Shakespeare: Cr. 3
ENG 2390 -- (IC) Intro. to African American Lit. (AFS 2390): Cr. 4
ENG 2530 or ENG 2540
-- Literature and Identity: Cr. 3
-- Literatures of the World: Cr. 3
ENG 3110 -- (PL) English Literature to 1700: Cr. 3
ENG 3120 -- (PL) English Literature after 1700: Cr. 3
ENG 2310 or ENG 3140 or ENG 5450
-- (IC) Major American Books: Cr. 3
-- (PL) Survey of American Literature: Cr. 3
-- Modern American Literature: Cr. 3
ENG 2600 or ENG 2110 or ENG 2800
-- Intro. to Folklore: Cr. 3
-- (IC) Introduction to Drama: Cr. 3
-- Techniques of Imaginative Writing: Cr. 4
ENG 5720 -- Topics in Language: Linguistics and Education: Cr. 3

FOREIGN LANGUAGE MAJORS (Thirty Credits)
Secondary certification is offered with majors in the following languages: French, German, Italian, Latin, Russian, and Spanish. Requirements for these majors are determined by the appropriate department in the College of Liberal Arts. Students who major in a foreign language are advised to minor in English or in a second foreign language.

MATHEMATICS MAJOR (Forty Credits)
MAT 2010 -- Calculus I: Cr. 4
MAT 2020 -- Calculus II: Cr. 4
MAT 2030 -- Calculus III: Cr. 4
MAT 2250 -- Elementary Linear Algebra: Cr. 3
MAT 5000 -- Foundation Concepts of Math. & Proof Writing: Cr. 3

MAT 2210 or MAT 5700
-- (MAT 6150) Probability and Statistics for Tchrs.: Cr. 4

MAT 2350 -- Elementary Differential Equations: Cr. 3
MAT 5070 -- Advanced Calculus: Cr. 4
MAT 5400 or MAT 5520
-- Elementary Theory of Numbers: Cr. 3
-- Introduction to Topology: Cr. 3

MAT 5420 -- Algebra I: Cr. 4
MAT 5610 -- Intro. to Analysis II: Cr. 4
MAT 6130 -- Discrete Math. for Teachers: Cr. 3
MAT 6140 -- Geometry: An Axiomatic Approach: Cr. 3

SECONDARY MATHEMATICS MINOR (Minimum 22-23 credits)
MAT 2010 -- Calculus I: Cr. 4
MAT 2020 -- Calculus II: Cr. 4
MAT 2030 -- Calculus III: Cr. 4
MAT 2250 -- Elementary Linear Algebra: Cr. 3

MAT 6130 -- Discrete Math. for Teachers: Cr. 3
MAT 6140 -- Geometry: An Axiomatic Approach: Cr. 3
MAT 6150 -- Probability and Statistics for Teachers: Cr. 4

SECONDARY SCIENCE MAJOR — SINGLE DISCIPLINE
Students who major in biology (thirty-six credits), chemistry (thirty-four credits), geology (thirty-four credits), or physics (thirty-two credits) must follow the minimum requirements in the major that are designated for a Bachelor of Arts degree by the appropriate department in the College of Science. Students who major in chemistry must complete CHM 5600. Students who major in geology must complete

1. Replaces SCE 5070 for Unified Science Group majors only.
AST 2010 and GEL 1370. Students who major or minor in biology must complete BIO 2870.

The following courses outside the major are also required and may be used to fulfill a Group Science Minor:

**BIO 1050 -- (LS) An Introduction to Life: Cr. 4**
**CHM 1220 -- (PS) Chemical Structure, Bonding, & Reactivity: Cr. 4**
**CHM 1230 -- Chemical Principles in the Laboratory: Cr. 1**
**CHM 8740 -- Laboratory Safety: Cr. 2**
**GEL 1010 -- (PS) Geology: The Science of the Earth: Cr. 4**
**PHY 2130 -- (PS) General Physics: Cr. 3**
**PHY 2131 -- General Physics Laboratory: Cr. 1**
**MAT 1020 -- Calculus I: Cr. 4**
**MAT 2210 or STA 1020 -- Probability & Statistics for Teachers: Cr. 4**
**Elementary Statistics: Cr. 3**

All science majors must complete a total of fifty semester credits in science.

**UNIFIED SCIENCE GROUP SECONDARY MAJOR primarily for grades 7 - 9 (Fifty Credits)**

NOTE: North Central Association accreditation requires that new or reassigned science teachers have at least twelve semester credits in any science subject that they teach.

Unified Science majors are required to have a total of fifty semester credits in natural science courses, unless their minor is also science. If their minor is natural science they must complete thirty-six credits.

**BIOLOGY (12 credits):**
**BIO 1500 -- Basic Life Diversity: Cr. 4**
**BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 4**
**BIO elective: Cr. 3-4**

**EARTH SCIENCE (11 credits):**
**AST 2010 -- (PS) Descriptive Astronomy: Cr. 4**
**GEL 1010 -- (PS) Geology: The Science of the Earth: Cr. 4**
**GEL 1370 -- Meteorology: The Study of Weather: Cr. 3**

**CHEMISTRY (12 credits):**
**CHM 1220 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 4**
**CHM 1230 -- Chemical Principles in the Laboratory: Cr. 1**
**CHM 1240 -- General/Organic Chemistry: Cr. 4**
**CHM 1250 -- General/Organic Chemistry Lab: Cr. 1**
**CHM 6740 -- Laboratory Safety: Cr. 2**

**PHYSICS (3 courses plus labs):**
**PHY 2130 -- (PS) General Physics: Cr. 3**
**PHY 2131 -- General Physics Lab: Cr. 1**
**PHY 2140 -- General Physics: Cr. 3**
**PHY 2141 -- General Physics Lab: Cr. 1**
**PHY elective: Cr. 2-4**

Additional Science Electives (to total 50 credits): 5

In addition to the above major courses, the following courses are required:

**MAT 1800 -- Elementary Functions: Cr. 4**
**MAT and/or CSC elective: Cr. 2**

**SECONDARY SOCIAL STUDIES — Individual Disciplines:  
ECONOMICS MAJOR (Thirty-two Credits)  
See an adviser in Academic Services, College of Education, for specific course requirements.  
GEOGRAPHY MAJOR (Thirty-two Credits):  
See an adviser in Academic Services, College of Education, for specific course requirements.  
HISTORY MAJOR (Thirty-three Credits):  
See an adviser in Academic Services, College of Education, for specific course requirements.**

**POLITICAL SCIENCE MAJOR (Thirty-two Credits):**

See an adviser in Academic Services, College of Education, for specific course requirements.

**SECONDARY SOCIAL STUDIES GROUP MAJOR  
(Thirty-six Credits)**

This major includes four disciplines: economics, geography, history, and political science. The major must include at least two courses from each of these areas. (Note that opportunities for teaching social studies at the secondary level are very limited.) The recommended distribution of courses is as follows:

**HIS 1100 -- (HS) The Ancient World: Cr. 3**
**HIS 2050 -- United States since 1877: Cr. 3**
**HIS 2240 -- History of Michigan: Cr. 3**
**HIS 1200 -- (HS) The Medieval World: Cr. 3-4**
**HIS 2040 -- The United States to 1877: Cr. 3-4**
**GPH 1100 -- (SS) World Regional Patterns: Cr. 4**
**GPH 2200 -- Geography of Michigan: Cr. 3**
**P S 1010 or P S 1030 -- (AI) Principles of American Government: Cr. 4**
**-- The American Governmental System: Cr. 3**
**P S 3070 -- Michigan Politics: Cr. 4**
**ECO 2010 -- (SS) Principles of Microeconomics: Cr. 3**
**ECO 2020 -- (SS) Principles of Macroeconomics: Cr. 3**

**SPEECH COMMUNICATION EDUCATION MAJOR  
(Thirty-four Credits)**

A Minor in English is required with this major. In addition, the methods course COM 6060 (three credits) is also required.

**Required Courses:**
**COM 1010 -- (OC) Oral Communication: Basic Speech: Cr. 3**
**COM 1500 -- Survey of Mass Communication: Cr. 3**
**COM 2170 -- Persuasive Speaking: Cr. 3**
**COM 2200 -- Interpersonal Communication: Cr. 3**
**COM 3400 -- (WI) Theories of Communication: Cr. 4**
**COM 3250 -- Intro. to Organizational Communication: Cr. 3**
**COM 3270 -- Group Communication and Human Interaction: Cr. 3**
**COM 4210 -- Intro. to Research Methods in Communication: Cr. 3**
**COM 5030 -- Communication Ethics: Cr. 3**
**COM 5030, the Capstone Course, must be taken in the final 21 credits of study.**
**COM 4040 -- Diversity in Interpersonal Communication: Cr. 3**

**Methods Course:**
**COM 6060 -- Teaching Communication at the Secondary Level: Cr. 3**

**Electives (three credits):**

An additional three credits must be elected from the following, in consultation with a departmental adviser:

**COM 2110 -- (CT) Argumentation and Debate: Cr. 3**
**COM 2160 -- (PL) Contemporary Persuasive Campaigns: Cr. 3**
**COM 2190 -- Rhetoric in Western Thought: Cr. 3**
**COM 3200 -- Nonverbal Communication: Cr. 3**
**COM 4030 -- Gender and Communication: Cr. 3**
**COM 5180 -- Family Communication: Cr. 3**
**COM 6070 -- Directing Forensics: Cr. 3**
**COM 1600 -- Intro. to Audio-Television-Film Production: Cr. 3**

**SPEECH -- RADIO/TELEVISION MAJOR (Thirty-six Credits)**

This major must be combined with an English Minor (see below).

**COM 2100 -- Persuasive Speaking: Cr. 3**
**COM 3400 -- (WI) Theories of Communication: Cr. 4**
**COM 2040 -- Voice and Articulation: Cr. 3**
**COM 1500 -- Survey of Mass Communication: Cr. 3**
**COM 2230 -- Radio and Television Reporting & Announcing: Cr. 3**
**COM 2210 -- Writing for Radio, Television and Film: Cr. 3**
**COM 4310 -- Audio Production: Cr. 4**
**COM 4410 -- Television Production: Cr. 4**

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MINOR AREAS OF STUDY: Students seeking secondary certification for grades 7-12 must complete one of the following minors:

**BILINGUAL/BICULTURAL MINOR (Twenty-four Credits)**
The student must take the Language Proficiency examinations by the time he/she has completed twelve credits; the student must satisfactorily pass the proficiency exams before completion of the program.

BBE 5000 -- Multicultural Education in Urban America: Cr. 2
BBE 5500 -- Introduction to Bilingual/Bicultural Education: Cr. 3
BBE 6560 -- Teaching Methods in Bilingual/Bicultural Education: Cr. 3
BBE 6600 -- Internship in Bilingual/Bicultural Teaching: Cr. 4
BBE 6700 -- Seminar in Cultural Awareness: Cr. 3
BBE 6850 -- Applied Linguistics: Issues in Bilingual Education: Cr. 3
BBE 6590 -- Culture and Language in BBE: Cr. 3
LED 6520 -- Tchg. English as Second/Foreign Lang.: Meth. I: Cr. 3

**COMPUTER SCIENCE MINOR (Twenty-three Credits)**
CSC 1100 -- (CL) Problem Solving and Programming: Cr. 4
CSC 1500 -- (CL) Fundamental Structures in Computer Sci.: Cr. 3
CSC 2110 -- (CL) Intro. to Data Structures and Abstraction: Cr. 4
CSC 2200 -- Data Structures and Algorithm Analysis: Cr. 4
TED 6020 -- Computer Applications in Teaching I: Cr. 3
TED 6030 -- Computer Applications in Teaching II: Cr. 3

**ELECTIVES (three credits):**
CSC 3750 -- Intro. to the Internet (recommended): Cr. 3

**DANCE MINOR (Twenty-seven Credits)**
DNC 2000 -- (VP) Introduction to Dance: Cr. 4
DNC 2010 -- Technique Laboratory I: Part I: Cr. 2
DNC 2020 -- Technique Laboratory I: Part II: Cr. 2
DNC 2210 -- Ballet III: Cr. 2
DNC 2310 -- (VP) History of Dance from 1800: Cr. 2
DNC 3010 -- Technique Laboratory II: Cr. 4
DNC 2500 -- Choreography I: Cr. 2
DNC 5610 -- Dance Company I: Cr. 1
DNE 4810 -- Methods in Modern Dance & Ballet: Cr. 3
DNE 5810 -- Creative Dance for Children: Cr. 3

**ENGLISH MINOR (Twenty Credits)**
ENG 2200 -- (PL) Shakespeare: Cr. 3
ENG 2390 -- (IC) Intro. to African American Lit. (AFS 2390): Cr. 4
ENG 2530 or ENG 2540 -- Literature and Identity: Cr. 3
ENG 6010 -- Tutoring Practicum: Cr. 3
ENG 3110 or ENG 3120 -- (PL) English Literature after 1700: Cr. 3
ENG 3140 or ENG 5450 -- (PL) Survey of American Literature: Cr. 3
ENG 5720 -- Topics in Language: Linguistics and Education: Cr. 3

**FOREIGN LANGUAGE MINORS (Twenty to Twenty-six Credits)**
Secondary certification is offered with minors in the following languages: French, German, Italian, Latin, Russian, and Spanish. Requirements for these minors are determined by the appropriate department in the College of Liberal Arts. Computation of the twenty credits begins at the intermediate level.

**HEALTH EDUCATION MINOR (Twenty-four Credits)**
BIO 1050 -- (LS) An Introduction to Life: Cr. 3
HEA 2310 -- Dynamics of Personal Health: Cr. 3
HEA 2330 -- First Aid and CPR: Cr. 3
HE 3330 -- Health of the School Child: Cr. 3
HE 3340 -- Nutrition & Health Education: Cr. 3

**MATHEMATICS MINOR (Twenty-two to Twenty-three Credits)**
MAT 2010 -- Calculus I: Cr. 4
MAT 2020 -- Calculus II: Cr. 4
MAT 2030 -- Calculus III: Cr. 4
MAT 2250 -- Elementary Linear Algebra: Cr. 3

**EDUCATION MINOR (Minimum Twenty-four Credits)**
EDP 5380 -- Adolescent Psychology: Cr. 2-3
CED 6700 -- Role of the Teacher in Guidance: Cr. 2
TED 5250 -- Teaching the Emerging Adolescent: Middle Level: Cr. 3
RDG 6400 -- Practicum in Developmental Reading: Cr. 3

**KINESIOLOGY MINOR (Twenty Credits)**
Required Courses:
KIN 2010 -- Psycho-Physiological Foundations of Phys. Activity: Cr. 3
KIN 2580 -- Phys. Ed. in Secondary Schools I: Racquet: Cr. 3
KIN 2590 -- Phys. Ed. in Secondary Schools II: Softball: Cr. 3
KIN 2590 -- Phys. Ed. in Secondary Schools II: Soccer: Cr. 3
KIN 2580 -- Dance Company I: Cr. 1
KIN 3400 -- Lifespan Growth and Development: Cr. 3
KIN 3550 -- (WI) Motor Learning and Control: Cr. 3
KIN 3570 -- Phys. of Exercise I (Prereq: BIO 2870 or equiv.): Cr. 3
KIN 3580 -- Biomechanics (Prereq: BIO 2870 or equiv.): Cr. 3

**SCIENCE MINOR —SINGLE DISCIPLINE (Twenty Credits)**
For the science minor, students must complete twenty credits in one of the following disciplines in which the student has NOT accrued major credit: biology, chemistry, geology, and physics. Additionally, students must complete MAT 1800 or its equivalent. Consult a College of Education adviser for specific course requirements.

**UNIFIED SCIENCE GROUP MINOR (Twenty-four Credits)**
Basic course work in science areas other than the major:
BIO 1050 -- (LS) An Introduction to Life: Cr. 4
CHM 1220 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 4
CHM 1230 -- Chemical Principles in the Laboratory: Cr. 1
GEL 1010 -- (PS) Geology: The Science of the Earth: Cr. 4
PHY 2130 -- (PS) General Physics: Cr. 3
PHY 2131 -- General Physics Laboratory: Cr. 1

**SOCIAL STUDIES SINGLE SUBJECT MINOR (Twenty Credits)**
For a social studies minor in a single subject, twenty credits must be completed in history, geography or political science, and twenty-two credits in economics. The minor in history must include at least two
courses each in United States history and world history. Consult a College of Education adviser for specific course requirements.  

SOCIAL STUDIES GROUP MINOR (Minimum Twenty-four Credits)  
This minor includes four social studies disciplines: economics, geography, history, and political science. The minor must include at least two courses from each area in which the student has not accrued major credits.  

P S 1010 or P S 1030  
-- (AI) American Government: Cr. 4  
-- (AI) The American Governmental System: Cr. 3  
P S 3070 -- Michigan Politics: Cr. 3  
HIS 1100 or HIS 1200 or HIS 1300  
-- (HS) The Ancient World: Cr. 3-4  
-- (HS) The Medieval World: Cr. 3-4  
-- (HS) Europe and the World: 1500-1945: Cr. 3-4  
HIS 2040 or HIS 2050  
-- History of the U.S. to 1877: Cr. 3  
-- History of the U.S. Since 1877: Cr. 3  
ECO 1000 -- (SS) Survey of Economics: Cr. 4  
ECO elective (ECO 2010 or 2020) (SS): Cr. 3-4  
GPH 1100 or (SS) World Regional Patterns: Cr. 4  
GPH 2200 -- Geography of Michigan: Cr. 3  

SPEECH MINOR (Twenty Credits)  
COM 1010 -- (OC) Oral Communication: Basic Speech: Cr. 3  
COM 2040 -- Voice and Articulation: Cr. 3  
COM 2170 -- Persuasive Speaking: Cr. 3  
COM 2110 -- (CT) Argumentation and Debate: Cr. 3  
COM 2200 -- Interpersonal Communication: Cr. 3  
COM 2500 -- Oral Interpretation of Literature: Cr. 3  
COM 1500 -- Survey of Mass Communication: Cr. 3  

Bachelor's Degree Programs in Special Education Leading to Elementary or Secondary Endorsement  
The special education curriculum leads to a bachelor’s degree in education and certification in the areas of mentally impaired or speech impaired. The mentally impaired concentration prepares teachers to work with children who have a mental impairment. The speech impaired concentration (master’s degree required for certification) prepares teachers to work with children who have speech and language disorders.  

Admission Requirements: see page 102.  

DEGREE REQUIREMENTS: The following requirements in various curricular areas supplement the degree requirements outlined above (see page 103). The entire program in Special Education requires a minimum of 140 credits.  

PRE-PROFESSIONAL REQUIREMENTS: The following courses are required of all students seeking special education certification. Some of these courses may also satisfy the University General Education Requirements (see page 23), but the dual application of any course to both College and University General Education categories cannot be used to reduce the total degree requirement below 124 credits. College and special education planned minor requirements must be completed prior to entering this program.  

No grade below ‘C’ may be used to meet any requirement specific to Special Education, the Special Education major, or the professional sequence. All courses below marked with an asterisk (*) must be completed with a grade of ‘C’ or above.  

* BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 4  
* BIO 2870 -- Anatomy and Physiology: Cr. 5  
ENG 1020 -- (BC) Introductory College Writing: Cr. 4  
* HEA 2330 -- First Aid and CPR: Cr. 3  
* MAT 1110 -- Mathematics for Elementary School Teachers I: Cr. 3  
* PSY 1010 -- (LS) Introductory Psychology: Cr. 4  
* PSY 2300 -- Psychology of Everyday Living: Cr. 4  
COM 1010 -- (OC) Oral Communication: Basic Speech: Cr. 3  
* ELE 3200 -- Literature for Children: Cr. 3  
Computer Literacy (CL) course: Cr. 3-4  
Critical Thinking (CT) course:  
PHI 1050 or COM 2110  
-- (CT) Critical Thinking: Cr. 3  
-- (CT) Argumentation and Debate: Cr. 3  

Foreign Culture (FC) course:  
Historical Studies (HS) course:  
Humanities (VP,PL) -- two courses  
Intermediate Composition (IC) course:  
Physical Sciences (PS) course:  
Social Science (AI, SS) -- two courses  
*P S 1010 or *P S 1030  
-- (AI) American Government: Cr. 4  
-- (AI) The American Governmental System: Cr. 3  
* GPH 1100 or *SOC 2000  
-- (SS) World Regional Patterns: Cr. 4  
-- (SS) Understanding Human Society: Cr. 3  

INFORMATION POWER: Required of all newly-matriculated undergraduate students who transfer twelve or fewer credits to Wayne State, prior to completion of thirty credits at Wayne State, preferably during the first semester in residence:  
UGE 1000 -- (GE) Information Power: Cr. 1  

PROFESSIONAL EDUCATION REQUIREMENTS: The following courses are required of all students seeking special education endorsements and may be taken only after admission to the College of Education.  

PHASE I FIELD EXPERIENCE  
TED 3550 -- (WI) Teaching: Research, Theory and Practice: Cr. 5  
ELE 3320 -- Teaching Reading: Emergent Literacy: Cr. 3  
The following courses may be elected at any time after admission to the College of Education and must be completed prior to TED 5780:  
RDG 4430 -- Tching. Reading in Subj. Matter Areas: Cr. 3  
EDP 3310 -- Educational Psychology: Cr. 3  
ELE 3300 -- Teaching Language Arts: Preprimary-9: Cr. 3  
ELE 3400 -- Teaching Mathematics: Preprimary-9: Cr. 3  
ELE 3500 -- Teaching Science: Preprimary-9: Cr. 3  
ELE 3600 -- Teaching Social Studies: Preprimary-9: Cr. 3  
The following courses may be elected at any time after admission to the College of Education:  
BBE 5000 -- Multicultural Education in Urban America: Cr. 2  
TED 6020 -- Computer Applications in Teaching I: Cr. 3 (optional)  

ELEMENTARY FIELD EXPERIENCE  
TED 5780 -- Directed Teaching and Conference: Cr. 5  

FINAL FIELD EXPERIENCE  
TED 5790 -- Student Tchg. & Conference for Special Groups: Cr. 8  
SED 6010 -- Seminar in Special Education Teaching: Cr. 2  

MAJOR AREAS OF STUDY: Students pursuing a bachelor’s degree in education leading to an endorsement in special education must complete one of the following majors. The courses cited in the mentally impaired program with the exception of SED 5060, 5030, 5040, and 5600 can be taken only after admission to the Special Education Program.  

MENTALLY IMPAIRED (Thirty-six Credits)  
SED 5060 -- Observation & Assessment, Skills -- Lab/Sem.: Cr. 3  
SED 5090 -- Special Education & Transitional Services: Cr. 3  
SED 5030 -- Education of Exceptional Children: Cr. 3  
SED 5040 -- Speech Improvement in the Classroom: Cr. 2  
SED 5110 -- Mental Impairments and the Cognitive Process: Cr. 3  
SED 5130 -- Curriculum Development: Mental Impairments: Cr. 3  
SED 5140 -- Behavior Management: Positive Support: Cr. 3
SE D 5260 -- Instructional Strategies for Exceptional Learners: Cr. 4
SE D 5600 -- Support for Students with Special Needs: Cr. 3
SE D 6010 -- Seminar in Special Education Teaching: Cr. 3
ELE 6070 -- Family, Community & School Partnerships: Cr. 3
ECE 6100 -- Enabling Technology: Cr. 3 (College of Engineering)

SPEECH IMPAIRED: Course requirements for this major are prescribed by the Department of Communication Disorders and Sciences in the College of Science and are the same as the major requirements for the Bachelor of Arts with a Major in Communication Disorders and Sciences; see page 389.

PLANNED MINOR: Students pursuing a bachelor’s degree in education leading to an endorsement in Special Education must complete the following minor requirement.

PLANNED MINOR (Nineteen to Twenty-one Credits)

BIO 2870 or PSY 2400  
-- Anatomy and Physiology: Cr. 5  
-- Developmental Psychology: Cr. 4

If PSY 2400, Developmental Psychology, is elected, one course from the following group of three is also required:

PSY 3060 or PSY 3080 or PSY 3120  
-- Psych. of Learning & Memory: Fundamentals: Cr. 3  
-- Cognitive Psychology: Fundamentals: Cr. 3  
-- Brain and Behavior: Cr. 3

PSY 2300 -- Psychology of Everyday Living: Cr. 4
SOC 2000 or GPH 1100  
-- (SS) Understanding Human Society: Cr. 3  
-- World Regional Patterns: Cr. 4

P S 1010 -- (AI) American Government: Cr. 4
ELE 3200 -- Literature for Children: Cr. 3
MAT 1110 -- Mathematics for Elementary School Teachers I: Cr. 3

Students who plan to pursue additional minors, such as early childhood education, must consult advisers in the program areas.

Bachelor’s Degree Programs in Art Education
Leading to Grades K-12 Endorsement

The program in art education is designed to provide undergraduates and post-degree students with learning experiences that will enable them to become successful artist-teachers. This curriculum leads to a bachelor’s degree and a Michigan Provisional Teaching Certificate which enables the holder to teach art in all grades, kindergarten through grade twelve, and subjects for which the holder has minor certification, in grades seven through twelve.

The art education program admits both undergraduate and post-bachelor students. Undergraduate students are encouraged to begin art coursework as freshmen and to apply to the College of Education after the completion of fifty-three semester credits. Those who have received a bachelor’s degree with an art major can enter the program after the completion of fifty-three semester credits. Those who have been admitted to the College of Education to take the following courses:

AED 5000 -- Intro. to Art Education: Cr. 3
AED 5100 -- Topics in Art Education: Cr. 3
AED 5150 or AED 6150  
-- Computer Graphics in the School Art Room: Cr. 3  
-- Instructional Applications of Computer Graphics: Cr. 3

AED 5650 -- Art Teaching Laboratory: Cr. 2
EDP 3310 or EDP 5450 or EDP 5480  
-- Educational Psychology: Cr. 3  
-- Child Psychology: Cr. 3  
-- Adolescent Psychology: Cr. 3

AED 5160 -- Theory and Practice in Art Education: Cr. 3
RDG 4430 -- Teaching Reading in Subject Matter Areas: Cr. 3
TED 5780 -- Directed Teaching and Conference: Cr. 5
TED 5790 -- Student Teaching and Conference for Special Groups: Cr. 8
EHP 3600 -- Introduction to the Philosophy of Education: Cr. 3
ELE 3200 or EED 6310  
-- Literature for Children: Cr. 3  
-- Literature for Adolescents: Cr. 3

ELE 3300 -- Tchg. Lang. Arts: Preprimary - 9: Cr. 3
TED 3550 -- (WI) Tchg. Processes: Cr. 5
SED 5010 -- Exceptional Child in the Regular Classroom: Cr. 2
BB E 5000 -- Multicultural Education in Urban America: Cr. 2
AED electives: Cr. 6

MAJOR REQUIREMENTS: Students pursuing a bachelor’s degree in art education must complete thirty-six credits in art/art education major courses distributed as follows:

Required Courses:  
(1) Choose one course from a 3-D area:  
AED 5070, 5170, 5230, 5360.

(2) Choose one course from a Painting area: AED 5020, 6220.

(3) Choose one course from a Film/Printmaking area:  
AED 5190, 5280.

The following courses should be elected as early as possible:
A D E 1200, A DE 1210, A DR 1050, A DR 1060, A DR 2070, A H 1110,  
A H 1120, APA 2100, ASL 2150.

A DE 1200 -- Design I: Cr. 3
A DE 1210 -- Design II: Cr. 3
A DE 5070 -- Methods and Materials of Sculptural Expression: Cr. 3
A DE 5020 -- Painting: Methods and Materials: Cr. 3
A DE 5190 -- Light, Sound, Space, and Motion: Cr. 3
A DE 5230 -- Ceramics Education I: Cr. 3
A DE 5360 -- Wood, Metal, and Plastic: Methods and Materials: Cr. 3
A DE 5280 -- Printmaking: Methods and Materials: Cr. 3
A DE 6220 -- Drawing & Watercolor: Field Studies: Cr. 3
A DR 1050 -- Drawing I: Cr. 3
A DR 1060 -- Drawing II: Cr. 3
A DR 2070 -- Beginning Life Drawing: Cr. 3

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MINOR REQUIREMENTS: Students pursuing a bachelor’s degree in art education may complete a sufficient number of credits to constitute a minor. Minor concentrations are of two kinds: a single subject minor consisting of twenty credits in one subject area; and a group minor consisting of twenty-four credits distributed among various, but related, subject areas. Students anticipating teaching at the secondary level are strongly advised to complete an academic minor rather than a fine arts minor for certification. For the selection of minor areas of study and their requirements, see page 109.

Post-Baccalaureate Program in Art Education

Admission: Applicants to the post-degree certification program in art education must have earned a Bachelor’s Degree in Studio Art and must submit an acceptable portfolio prior to admission to the art education program. Students must consult with an adviser for verification that the Art Education Major (thirty-six credits) has been completed, for certification purposes. This program can usually be completed within two years if the applicant begins in the fall semester. Art Teaching Laboratory and Student Teaching in Elementary and Secondary levels follow in sequence. Art Teaching Laboratory is offered only in the fall semester. Student Teaching can only be arranged during the regular school year. Applications for student teaching may be obtained in Room 223 Education.

PROGRAM REQUIREMENTS consist of an art education major (thirty-six credits), a professional education sequence (thirty-six credits), a methods and materials sequence (twenty-four credits), and either a single subject minor (twenty credits) or a group minor (twenty-four credits). Students anticipating teaching at the secondary level are strongly advised to complete an academic minor rather than a fine arts minor for certification. For the selection of minor areas of study and their requirements, see page 109.

PROFESSIONAL EDUCATION (Thirty-six Credits)

AED 5560 -- Art Teaching Laboratory: Cr. 2
AED 5160 -- Theory & Practice in Art Ed. (Coreq: AED 5650): Cr. 3
AED 5000 -- Introduction to Art Education: Cr. 3
AED 5100 -- Topics in Art Education: Cr. 3
SED 5010 -- The Exceptional Child in the Regular Classroom: Cr. 2
ELE 3200 or EED 6310
-- Literature for Children: Cr. 3
-- Young Adult Literature: Cr. 3
ELE 3300 -- Tchg. Lang. Arts: Preprim. - 9 (Coreq: TED 3560): Cr. 3
TED 3550 -- Tchg. Research, Theory & Practice: Cr. 5
BBE 5000 -- Multicultural Education in Urban America: Cr. 2
AED electives: Cr. 6
EDP 3310 or EDP 5450 or EDP 5480
-- Educational Psychology: Cr. 3
-- Child Psychology: Cr. 3
-- Adolescent Psychology: Cr. 3
EHP 3600 -- Introduction to the Philosophy of Education: Cr. 3
RDG 4430 -- Reading in Subject Matter Areas: Cr. 3
TED 5780 -- Directed Teaching and Conference: Cr. 5
TED 5790 -- Student Tchg. and Conference for Special Groups: Cr. 8
AED 5150 or AED 6150
-- Computer Graphics in the School Art Room: Cr. 3
-- Instructional Applications of Computer Graphics: Cr. 3

Bachelor’s Degree Programs in Career and Technical Education

Career and Technical education programs are offered in four curricular areas: business education, health occupations, home economics related occupations, and trade and industry. All of the programs offered under these generic headings lead to two kinds of certification: secondary school certification, and vocational certification with required work experience.

All students in career and technical education must complete a vocationally-certifiable major, a teaching minor, and the baccalaureate degree, and have acquired two years or 4,000 clock hours of recent relevant work experience in the area of the major.

Admission Requirements: In addition to the regular admission procedures (see page 102), each applicant must have a personal interview with a career and technical education adviser and complete a Plan of Work.

DEGREE REQUIREMENTS: Career and technical education programs follow the degree requirements outlined on page 103.

PRE-PROFESSIONAL REQUIREMENTS: Students seeking a bachelor’s degree in career and technical education must complete the pre-professional requirements outlined on page 106.

PROFESSIONAL EDUCATION REQUIREMENTS: Students in career and technical education programs must complete the professional education requirements outlined on page 107.

SPECIALIZATIONS: Programs in career and technical education are grouped under four curricular areas:

BUSINESS EDUCATION:
Accounting and Computing
Business Information Systems
Marketing Education

HEALTH OCCUPATIONS:
Dental Occupations
Medical Laboratory Occupations
Medical Assisting Occupations
Nursing Occupations

TRADE AND INDUSTRY:
Auto Mechanics
Electricity/Electronics
Graphics and Printing
Heating and Air Conditioning
Small Engine Repair
Welding
(For additional concentrations in this area, consult a career and technical education adviser.)

These specializations are offered as majors in community colleges. The major in the area of specialization should be completed at a community college, prior to admission to the College of Education. For further information, consult a career and technical education adviser in the College of Education.

MINOR AREAS OF STUDY: Students seeking certification in career and technical education must complete an academic minor; see minor areas of study, page 109.

CREDIT BY EXAMINATION: Credit in some occupational areas may be earned through competency examinations. Consult a career and technical education adviser for further information.

MICHIGAN TEACHING CERTIFICATES

The Michigan Department of Education issues two basic teaching certificates: elementary and secondary. The elementary certificate authorizes an individual to teach all subjects in grades kindergarten through five, and major and minor subject areas in grades six through eight. The secondary certificate authorizes an individual to teach his/her major and minor subject areas in grades seven through twelve. Some majors such as art, kinesiology, and music cover all grades, kindergarten through twelve.

Teaching endorsements may be added to any certificate. An individual may add up to six endorsements by completing requirements for academic majors and/or minors in accordance with State regula-
ions. An individual holding an elementary certificate may also earn an endorsement to teach at the secondary level, and vice versa. When adding an additional endorsement, the individual must also pass the Michigan Test for Teacher Certification in that subject area.

Elementary and secondary certificates are issued in two stages. The provisional certificate is issued first and is valid for five and a half to six years after the date of issuance. After three years of successful teaching and the completion of a master's degree or accumulation of eighteen semester hours in a planned program of study, a teacher may apply for a professional certificate which must be renewed every five years. The teacher must complete six semester hours of approved college credit or eighteen State-approved Continuing Education Units (CEUs) during each five-year period in order to retain professional certification.

**Certification Requirements**

All secondary certificates require an academic major and an academic minor in subject areas such as English, mathematics, or science, approved for teaching in grades seven through twelve by the State Board of Education. Elementary certificates require one academic major and one minor.

Students are recommended for certification after earning a bachelor's degree from a regionally-accredited institution and completing a specified sequence of professional courses in the College of Education. Holders of a bachelor's degree may also earn a teaching certificate in a post-bachelor certification program or Master of Arts in Teaching program. Additional information about these programs can be obtained from the Office of Academic Services in rooms 469 or 489 Education.

**Provisional Certificates**

Teaching certificates as listed below are granted with the bachelor's degree upon the completion of the four-year program. Application for the provisional certificate must be submitted within five years after certification requirements have been met. (In exceptional circumstances, the degree may be granted without the teachers certificate if the student meets all degree requirements but is unable to meet all requirements for the certificate.) They are also granted to students who hold a bachelor's or master's degree upon completion of a specified professional sequence, and to holders of either of the provisional certificates listed below who wish to qualify for the other.

**Elementary Provisional Certificate for Kindergarten through Grade Eight**

1. The candidate must have graduated with a bachelor's degree from an approved or accredited teacher education institution.
   - The academic background must include a single subject major; or a group major, and one minor; or three minors. A single subject major is defined as a minimum of thirty credits and a group major as a minimum of thirty-six credits. A single subject minor is a minimum of twenty credits, and a group minor is a minimum of twenty-four credits. Majors and minors must correspond to disciplines listed on the State of Michigan Approved List of Majors and Minors.
   - Completion of a professional education sequence is required.

**Secondary Provisional Certificate for Grades Seven through Twelve**

1. The candidate must have graduated with a bachelor's degree from an approved or accredited teacher education institution.
   - The academic background must include a single subject major or a group major, and one minor (may be a group minor) in subjects or subject fields in which the applicant expects to teach. A single subject major is defined as a minimum of thirty credits and a group major as a minimum of thirty-six credits. A single subject minor is a minimum of twenty credits and a group minor is a minimum of twenty-four credits.
   - The student must meet all specific requirements.

2. Application for a teaching certificate by completing a Master of Arts in Teaching degree program, or by completing a recognized post-degree program. See the Wayne State University Graduate Bulletin for general requirements for the Master of Arts in Teaching degree. The student may need to supplement previous degree work in order to satisfy major and minor provisions of the Michigan certification code.

3. Completion of a professional education sequence is required.

**Additional Endorsements**

Holders of certificates who wish to add an additional teaching endorsement must consult a counselor in the Division of Academic Services, 469 or 489 Education Building.

Application for an endorsement must be made within five years after endorsement requirements have been met. State examinations must be passed for all new endorsements.

**Certification for Post-Baccalaureate Students**

A college graduate holding the bachelor's or master's degree may qualify for a teaching certificate by completing a Master of Arts in Teaching degree program, or by completing a recognized post-degree program. See the Wayne State University Graduate Bulletin for general requirements for the Master of Arts in Teaching degree. The student may need to supplement previous degree work in order to satisfy major and minor provisions of the Michigan certification code.

**Five-Year Professional Certificate**

This certificate is for holders of provisional certificates who have taught successfully for three years after the issue date of their provisional certificate and have completed eighteen credits in a planned course of study after the issue date of their provisional certificate or have a master's degree. (For a student who is admitted to a program leading to a master's degree, the first eighteen credits are considered a planned program. Students not seeking a master's degree should consult with a counselor in 469 Education Building regarding an appropriate planned course of study.)

Teachers of K-12 subjects: art, dance, music and kinesiology may present experience at any grade level from kindergarten through grade 12.

Five year professional certification with vocational endorsement requires a planned program. Students should consult the appropriate area adviser regarding certification for an approved program leading to five year professional certification with a vocational endorsement.

All candidates for an elementary five year professional certificate must have completed in their undergraduate or post-graduate preparation six credits in reading instruction, three of which must be reading in the content areas, in order to qualify for a five year professional certificate. Consult a counselor in Room 469 Education Building for specific requirements.

All candidates for a secondary five year professional certificate must have completed in their undergraduate or post-graduate preparation a three-credit course in reading in the content areas, in order to qualify for this certification.

**Bilingual/Bicultural Endorsement**

The Bilingual/Bicultural Endorsement certifies a teacher who is qualified to teach classes of bilingual children. Students holding existing certificates may add a bilingual endorsement by completing an eighteen credit planned program. Information and referral to the appropriate adviser on requirements for this endorsement may be obtained in Room 469, Education Building.

**Early Childhood Endorsement**

The Early Childhood Endorsement certifies a teacher who is qualified to teach children ages birth to eight years. Students holding existing certificates may add an early childhood endorsement by completing a twenty-credit planned program. The endorsement is limited to those individuals holding an elementary certification. Information on requirements for this endorsement and referral to the appropriate adviser may be obtained in Room 469 or 489 Education Building.

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Middle Level Endorsement
The Middle Level Endorsement is a twenty-credit planned program which adds an area of expertise for teachers who already hold a Michigan elementary or secondary teaching certificate. The endorsement extends Michigan teacher subject area certification to include grades five through nine. Information on this endorsement and referral to an adviser may be obtained in Room 489 Education Building.

English as a Second Language Endorsement
The English as a Second Language (ESL) Endorsement certifies a teacher who is qualified to teach learners with limited English proficiency. Students holding existing certificates may add an ESL endorsement by completing an eighteen-credit planned program. Information and referral to the appropriate adviser may be obtained in Room 489, Education Building.

Student Teaching
**Prerequisite** requirements for student teaching eligibility are:
1. Admission to the College of Education.
2. Completion of course work in teaching major and minor(s) with grades of ‘C’ or better.
3. Passing of appropriate tests on the Michigan Test for Teacher Certification (MTTC).
4. Satisfactory completion of required courses in the professional education sequence with grades of ‘C’ or better.
5. Current negative tuberculosis test result.

**Application Procedures:**
1. Submit completed application forms in person to the Student Teaching Office, 223 Education Building, prior to the deadline of the appropriate application period (approximately six months prior to the expected date of assignment; see below).
2. Submit a completed eligibility form, signed by a faculty adviser, to the Student Teaching Office.

**Application Deadlines:**
- **Fall semester:** November 30 prior to student teaching
- **Winter semester:** May 31 prior to student teaching

**Advising Offices**
Information, written descriptions of programs, and referrals to advisers may be obtained from the following advising offices: Art Education, Room 163, Art Building; Kinesiology, Room 260, Matthaei Building; Speech Impaired, 563 Manoogian; Music Education, 208 Schaver Music Building; all other programs, Room 489, Education Building. Pre-Education students are advised by University Advising, 2 East, Helen Newberry Joy Student Services Building.

UNDERGRADUATE COURSES
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

TEACHER EDUCATION DIVISION COURSES (TED)

2250  **Introduction to Education.** Cr. 3
Exploration of teaching and schools in today’s and tomorrow’s society. Open to all students interested in discipline of professional education as a tool to understanding our multicultural society. (T)

3550  **(WI) Teaching: Research, Theory and Practice.** Cr. 5
Prereq: admission to College of Education; coreq: ELE 3320. Offered for S and U grades only. Structure, function and purposes of schools in society and how they are affected by various philosophies of education, organization and management of classrooms, development of instructional goals, use of tests and other measures, and utilization of professional resources in the community. Coursework includes laboratory experiences in schools. (F,W)

4300  **(H E 3300) Health of the School Child.** Cr. 3
Prereq: HEA 2310. Health status and problems of school-age children. Role of teacher in health promotion and protection; teacher observation and classroom first aid. (F,W)

5150  **Analysis of Elementary School Teaching.** Cr. 3-6
Prereq: admission to M.A.T program. Organization and management of classrooms. Lesson planning, teaching strategies and testing procedures. Work in classroom assigned by both an experienced public school teacher and a University faculty member. (F,W)

5160  **(WI) Analysis of Middle and Secondary School Teaching.** Cr. 3

5250  **Teaching the Emerging Adolescent in Middle Level Education.** Cr. 3
Prereq: admission to College of Education. Opportunities to examine best practices, curriculum and strategies of middle level education. (F)

5650  **Pre-Student Teaching Field Experience for Secondary Majors.** Cr. 3-5
Prereq: admission to College of Education; coreq: TED 5160. Offered for S and U grades only. Field experience in secondary school settings prior to full-time student teaching. (F,W)

5740  **(D E 5740) Problems in Driver Education and Traffic Safety.** Cr. 3
Prereq: TED 5994. Issues and concerns in professional preparation to meet traffic safety needs of schools and communities. (F,S)

5750  **(D E 5750) Seminar in Driver Education and Traffic Safety.** Cr. 3
Prereq: TED 5740. Behavioral, administrative, and professional aspects of the teaching role in driver and traffic safety education. (W,S)

5780  **Directed Teaching and Conference.** Cr. 1-10
Offered for S and U grades only. Prereq: admission to College of Education. Directed teaching in schools at level for which students are preparing for certification. Includes regular conference in which teaching methods in various fields are explored. (F,W)

5790  **Student Teaching and Conference for Special Groups.** Cr. 1-10
Prereq: admission to College of Education; admission to student teaching. Offered for S and U grades only. Directed teaching in schools at level for which advanced students are preparing for certification; discussion of educational issues. For students seeking
endorsements in special areas; for example: special education, early childhood, art. (F,W)

5810  (DNC 5810) Creative Dance for Children. (DNE 5810) Cr. 3
Approaches to creative dance experiences for children stressing the development of aesthetic and kinesthetic awareness. Focus on comprehensive arts and curriculum related materials. (F)

5820  (DNC 5820) Creative Movement for the Pre-School Child I. Cr. 3
Creative dance activities; manipulative, musical, imaginative and kinesthetic approaches to movement. (F,W)

5830  (DNC 5830) Field Work in Creative Dance. Cr. 2-8
Prereq: DNC 5830 or consent of instructor. Supervised professional study in field settings. (T)

5994  (D E 5730) Teaching Driver Education and Traffic Safety. Cr. 3
Prereq: valid Michigan driver’s license. Teacher preparation to organize and teach driver education and traffic safety. (F,W)

6020  Computer Applications in Teaching I. Cr. 3
Variety of experiences with computer applications for K-12 instruction using Macintosh and Dos/Windows platforms. Development of skills using telecommunication, videodiscs, CD-ROMs, and other multimedia resources. (T)

6030  Computer Applications in Teaching II. Cr. 3
Prereq: TED 6020 or equiv. Use of computing resources to develop problem-solving strategies and multimedia applications for students in specific K-12 curriculum areas. (F,W)

6130  Developing Curriculum in the Affective Domain. Cr. 3
Philosophy and theory underlying the affective domain; the impetus and means of evaluative and analytical thinking used as a vehicle that provides teachers with instructional strategies in building K-12 curriculum. (F,W)

6140  Local School Curriculum Planning. Cr. 1-6 (Max. 12)
For classroom teachers and teacher educators. Consideration of local problems in elementary and secondary school programs. Planning for better teaching and learning. (Y)

ART EDUCATION COURSES (AED)

5000  Introduction to Art Education. Cr. 3
Prereq: admission to College of Education. Study and analysis of the two-dimensional art process related to individual development and response. Examination of observation and image formation, including the collection of visual information for two-dimensional production. Investigation of geometric perspective and visual illusion. Children’s developmental use of symbols and related research in creativity, visual thinking and brain organization and function. Selected examples of drawings and paintings from various cultures examined in relation to learning and teaching. Material fee as indicated in the Schedule of Classes. (F,W)

5020  Painting: Methods and Materials. Cr. 3 (Max. 9)
Methods, materials and processes suitable for teaching painting in the schools. Subject selection, composition, surface selection and preparation, mixing and application of paint, finishing, and presentation. Students develop basic skills in painting for personal artistic expression. Material fee as indicated in the Schedule of Classes. (F,W)

5070  Methods and Materials of Sculptural Expression. Cr. 3
Required for certification in art education and prior to student teaching. Exploration of three-dimensional forms using various media; emphasis on sculptural concepts, materials, tools and techniques related to teaching sculpture on the elementary and secondary level. Material fee as indicated in the Schedule of Classes. (F)

5100  Topics in Art Education. Cr. 1-3 (Max. 9)
Prereq: admission to College of Education. Art experiences designed for the specific needs of special groups. Topics to be announced in Schedule of Classes. Material fee as indicated in the Schedule of Classes. (I)

5150  Computer Graphics in the School Art Room. Cr. 3
Instruction and laboratory experiences in the production of computer graphics, primarily using the Apple IIE and Apple GS. Explorations in HIRES, LORES, drawing, color-filling, painting, lettering, and animation. Students use basic programming, software systems, digitizers, printers, and video generation equipment. (Y)

5160  Theory and Practice in Art Education. Cr. 3 (Max. 9)
Prereq: admission to College of Education; AED 5650; prereq. or coreq: student teaching. Development and analysis of instructional objectives in art education; organization and management of art classrooms; teaching strategies and assessment practices. (W)

5170  Fibers: Methods and Materials. Cr. 3 (Max. 9)
Comprehensive exploration of fiber-fabric art forms: applique, trapunto, stitchery, dyeing, soft sculpture, weaving, wrapping, hooking, and others. Student learns basic techniques and selects several areas for in-depth study. Safety, special tools, materials, techniques and resources for teaching. For both beginning and advanced students; individual creative self-direction is essential for advanced study. Material fee as indicated in the Schedule of Classes. (F)

5190  Light, Sound, Space and Motion. (I T 5190) Cr. 3 (Max. 9)
Laboratory experiences in planning and producing animated films, instructional video, and slide/sound presentations. Students prepare storyboards, write scripts, prepare titles and credits, mark on film and slides, produce Super-8 animation, use 35mm camera on a copy stand, edit, splice film, record and synchronize sound tracks, and produce single-camera instructional video. Methods and materials for teaching film and video in schools, producing video aids, or producing film/slides/video for artistic expression. Material fee as indicated in the Schedule of Classes. (F)

5230  Ceramics Education I. Cr. 3
An overview of handbuilding processes, various firing procedures including blackware and raku, decorating, glazing and equipment maintenance. Emphasis placed on the educational benefits and procedures for working with people of various ages and the management of materials for teaching. Material fee as indicated in the Schedule of Classes. (Y)

5280  Printmaking: Methods and Materials Cr. 3 (Max. 9)
Studio exploration of relief, planographic, intaglio, and stencil processes as methods of reproduction for artistic expression. Examination of tools, methods and processes suitable for the classroom. Includes study in lithography, dry point, etching, calligraphy, woodcut, linocut, and photo screen processes. Material fee as indicated in the Schedule of Classes. (Y)

5360  Wood, Metal and Plastic: Methods and Materials. Cr. 2-3 (Max. 9)
Planning and production in wood, metal and plastic using power and hand tools. Processes suitable for production of adaptive devices or therapeutic activity. Materials and methods appropriate for schools. Work in a shop setting using power saws, torches, kiln, wood lathe, and a variety of hand tools. Material fee as indicated in the Schedule of Classes. (W,S)

5650  Art Teaching Laboratory. Cr. 3
Prereq: admission to College of Education; AED 5000. Laboratory experience in teaching art to elementary, middle, and high school students. (W,S)

6120  Art for Special Groups: Animation. Cr. 1-3 (Max. 9)
Prereq: AED 5190. Planning and production of video and 16mm animation films. Various techniques: cel, pixilation, cutout, claymation,
etch, drawing, video, kinestasis, light box, stop motion, computer. History and trends. Material fee as indicated in the Schedule of Classes.

6150  Instructional Applications of Computer Graphics.
      (I T 6150) Cr. 3
Instruction and laboratory experiences in the design, production, and application of computer graphics in the classroom and other educational settings. Programming experiences in animation, charts and graphs, and simple drawing techniques. Material fee as indicated in the Schedule of Classes.

6220  Drawing and Watercolor - Field Studies. Cr. 3 (Max. 9)
For beginning and advanced students’ growth and development in watercolor techniques and the painting process. Field trip/work sessions at rural and urban sites to develop vital awareness and ability to select visual information for image formation. Slide lectures, demonstrations, critiques, discussions, individual assistance, analysis of the two-dimensional art process and study of unique approaches to teaching watercolor. Material fee as indicated in the Schedule of Classes.

6230  Ceramics Education II. Cr. 3 (Max. 9)
Emphasis is placed on throwing procedures, the use of various clay bodies, firing at various temperatures, making and using tools, ceramic history and its use and benefits in a school curriculum. Material fee as indicated in the Schedule of Classes.

6250  Aspects of Ceramics. Cr. 3-9 (Max. 9)
Various aspects of ceramics chosen to develop the students’ understanding of the potential for ceramic education. Topics to be announced in Schedule of Classes. Material fee as indicated in the Schedule of Classes.

6300  Explorations in Art Therapy. Cr. 3
Provides non-majors with introduction to art therapy, its history and development, and major approaches. Basic theory and practice; emphasis on drawing, lesson plans, history of art education in the United States, state and national standards and research agenda of National Art Education Association. Material fee as indicated in the Schedule of Classes.

6320  Introduction to Art Therapy. Cr. 3
Slides, lectures, studio experiences and field observations on definition, theory, goals, research and ethics of art therapy; the role and duties of the art therapist in various settings; crosscultural mores.

6340  Theory of Art Therapy. Cr. 3
Slide lectures, studio experiences, assigned readings, discussions, and critical evaluations in the history and literature of art therapy and closely-related fields.

6360  Aspects of Art Therapy. Cr. 1-12
Aspects of the use of art therapy chosen to develop students’ breadth or depth in art therapy practice with various groups and settings.

BILINGUAL/BICULTURAL EDUCATION COURSES (BBE)

5000  Multicultural Education in Urban America. Cr. 2
Cultural, social, political, and economic realities of our complex, pluralistic society in relation to our educational system. Development of analytical and evaluative abilities of teachers to deal with racism, sexism, value clarification, and the parity of power. Strategies for multicultural education.

5020  Effective Involvement of Parents in School and Community. Cr. 3
Concepts of parenting and parent intervention. Determination of methods to maximize parent participation in the educational process of bilingual/bicultural students.

5500  Introduction to Bilingual/Bicultural Education. Cr. 3

5530  The Socio-Psychological Needs of Ethnocultural Communities. Cr. 3
Assessments of issues of concern to ethnocultural communities as a background for social services delivery and intervention.

5550  Urban Education. Cr. 3
Language program implementation within the urban culture of the school, community, and state.

6560  Teaching Methods in Bilingual/Bicultural Education. Cr. 3
Prereq: admission to a bilingual endorsement program. Utilization of traditional and innovative materials, techniques and methods in teaching elementary and secondary school subjects in a bilingual education program.

6590  Culture and Language in Bilingual/Bicultural Education. Cr. 1-3
Research and application of multicultural activities for designing processes to bring language and culture, and instruction in English, into the classroom.

6600  Internship in Bilingual/Bicultural Teaching. Cr. 2-12
Offered for S and U grades only. Internship in a bilingual, multicultural setting; assessment of the cultural, educational, and linguistic needs of students of limited English-speaking ability.

6700  Seminar in Cultural Awareness. Cr. 3
Understanding intergroup relations and the appreciation of cultural diversity in a multicultural society such as the United States. Selected topics offered on a semester or yearly basis.

6850  Applied Linguistics: Issues in Bilingual Education. Cr. 3
Current major models of applied English linguistics, contrasting linguistics with special reference to the comparison of English and linguistic minority languages.

CAREER and TECHNICAL EDUCATION COURSES (CTE)

5410  Career and Technical Education. Cr. 3
Prereq: admission to College of Education. Strategies and materials for the teaching of career/technical education subjects in a competency-based education setting. Teaching techniques, basic assessment, and evaluation as well as community and technological influences on teaching.

6010  History and Principles of Career and Technical Education. Cr. 3
Overview of organization and administration at the federal, state, and local levels. Recent developments and their significance for school reform and improvement; business and industry linkages.

6993  Special Problems in Career and Technical Education. Cr. 3
Prereq: admission to College of Education; CTE 5410. Special workshops and short term seminars in career and technical education subjects.
6999  Coordination of Cooperative Occupational Education. Cr. 3
Philosophy and objectives of educational programs that provide for work experience. Student selection, on-the-job and in-school instruction, placement, coordination, advisory committees, and administration of such programs. (F)

EDUCATION COURSES (ED )
3990  Directed Study. Cr. 1-6 (Max. 6)
Prereq: written consent of adviser. Offered for S and U grades only. (T)
5998  Field Studies. Cr. 1-8 (Max. 8)
Prereq: consent of adviser or instructor. Supervised professional study in field settings. (T)
3310  Educational Psychology. Cr. 3
Prereq: admission to College of Education. Introductory course in educational psychology. Topics include, but are not limited to: child and adolescent development, cognitive and behavioral learning theories, information processing, motivation and evaluation. Includes study of exceptional children and those with cultural differences. (Y)
5450  Child Psychology. Cr. 2-3
Prereq: admission to College of Education. Basic concepts, research findings and problems regarding child, pre-adolescent and early adolescent developmental needs as they apply to school and home environments; includes study of exceptional children and those with cultural differences. (T)
5480  Adolescent Psychology. Cr. 2-3
Prereq: admission to College of Education. Basic concepts, research findings and problems regarding early adolescent and adolescent developmental needs as they apply to school and home environments; includes study of exceptional children and those with cultural differences. (T)
6210  Foundations of Educational Psychology. Cr. 3
Introduction to current issues in educational psychology. Topics include, but are not limited to: child and adolescent development, learning, motivation, information processing and evaluation. Includes study of the exceptional child and those with cultural differences. (F,W)
6220  Psychology of Exceptional Children. Cr. 3-4
Psychological aspects of cognitive and physical deficits in children; laboratory experience in differential diagnosis. Material fee as indicated in the Schedule of Classes. (F,W)

ELEMENTARY EDUCATION COURSES (ELE)
3200  Literature for Children. Cr. 3
Literature appropriate for use with children from preprimary through middle school age. (T)
3300  Teaching Language Arts: Preprimary-9. Cr. 3
Prereq: admission to College of Education. Developing communication skills in the elementary and middle school classrooms: thinking, listening, speaking, and writing. Implications of multiculturalism and bilingualism. Teaching children with special needs. Reporting to and collaborating with parents. (F,W)
3320  Teaching Reading: Emergent Literacy. Cr. 3
Prereq: admission to College of Education; coreq: TED 3550. Theoretical foundations for literacy. Beginning reading and writing process; teaching strategies and instructional material. Organization and management of beginning reading programs. Evaluating literacy ability through formal and informal measures; reporting to parents and professionals. Implications of multiculturalism, special needs, and English-language learners. (F,W)
3400  Teaching Mathematics: Preprimary-9. Cr. 3
Prereq: admission to College of Education. Objectives, curriculum content, teaching strategies, evaluation of instruction materials. Teaching children with special needs. Reporting to and collaborating with coworkers and parents. (F,W)
3500  Teaching Science: Preprimary-9. Cr. 3
Prereq: admission to College of Education; TED 3550. Goals and significant areas of study in the elementary school science curriculum. Introduction to teaching resources including science activities, field trips, print and non-print materials. Material fee as indicated in the Schedule of Classes. (F,W)
3600  Teaching Social Studies: Preprimary-9. Cr. 3
Prereq: TED 3550; admission to College of Education. Objectives, curriculum content and organization, teaching strategies, instructional materials. Evaluation of learning. Utilization of community resources. (T)
6010  Family Centered Collaboration in Early Childhood Intervention. (OT 6150) (PSY 6010) (SW 6100) Cr. 3-4
Theories, concepts and practices of family centered intervention services for young children with special needs. Team-building and cross-disciplinary communication and collaboration with families. (F)
6020  Seminar in Early Childhood. Cr. 3
Prereq: admission to College of Education. Educational programs for young children in child care centers, kindergartens, and the primary grades. Improved human relationships, choices for children, play as a way of learning. (Y)
6030  Assessment of Young Children in Educational Settings. Cr. 3
Strategies for authentic assessments of young children in school and family educational settings. (Y)
6040  Role of Content Areas in Early Childhood Education. Cr. 2-8
Prereq: admission to College of Education. Child growth and development as related to the content areas within the early childhood years (birth to eight years). Appropriate subject matter, field experience, reference materials, audio-visual resources in the lives of young children. Topics to be announced in Schedule of Classes. (S)
6060  Community Contacts: Working with Families in Urban Settings. Cr. 3
Programs and services within the community that assist families in improving educational services for the child. (Y)
6070  Family, Community and School Partnerships: Supporting Children’s Learning. Cr. 3
Theory and practice in joining families, communities, and schools in promoting children’s learning, development and success in school. Strengths and needs of families in a diverse, multicultural society, teachers’ roles in concert with other disciplines in supporting families and building partnerships, and connection with community resources. (Y)
6080  Preprimary Goals and Practices. Cr. 3
Prereq: admission to College of Education; coreq: TED 5790 or ED 5998. Topics related to development and learning of preschool child, role of teacher as facilitator, impact of family and community. (F,W)
6090  Introduction to Infant Mental Health Theory and Practice. Cr. 1
Concepts of infant mental health theory and practice as a developmental framework for the observation, assessment and understanding of infant-parent behaviors and interactions as indicators of strengths and risks in the security of the attachment relationship. (Y)
Planning and Implementing Nursery School Curriculum. Cr. 3
Prereq: admission to MAT program or Limited License to Instruct program. Survey of literature for use with PS-8 children; literary and artistic aspects of children's literature and strategies for integrating literature into school curriculum. 

Children's Literature for New and Prospective Teachers. Cr. 3
Prereq: admission to MAT program or Limited License to Instruct program. Survey of literature for use with PS-8 children; literary and artistic aspects of children's literature and strategies for integrating literature into school curriculum. 

Language Arts Instruction: Preprimary-9. Cr. 3
Prereq: admission to MAT degree program. Developing thinking, listening, speaking and writing skills in elementary and middle schools. Students plan, implement and evaluate learning experience with children under professional guidance.

Language Arts Curriculum: Preprimary-9. Cr. 3
Prereq: admission to teacher certification program. Content of language arts programs. Objectives, procedures, materials, and organizational patterns.

Reading Instruction: Preprimary-9. Cr. 3
Prereq: admission to College of Education. Developing reading skills in elementary and middle schools. Students plan, implement and evaluate learning experience with children under professional guidance.

Reading Curriculum: Preprimary-9. Cr. 3
The reading process; procedure, materials and organizational patterns used when teaching reading.

Teaching Reading in Early Childhood Education. Cr. 3
Prereq: admission to College of Education. Rationale for teaching reading and various reading skills to young children. Materials and methods for initial reading instruction.

Mathematics Instruction: Preprimary-9. Cr. 3
Prereq: admission to MAT degree program. Developing mathematics skills in elementary and middle schools. Students plan, implement and evaluate learning experience with children under professional guidance.

Science Curriculum: Preprimary-9. Cr. 3
Prereq: admission to teacher certification program. Role of learning in science in the curriculum. Objectives, plans of organization for learning, resources materials. Overview of balanced program. Experiences with appropriate experiments, field trips, reference materials, audio-visual resources. Material fee as indicated in the Schedule of Classes.

Social Studies Curriculum: Preprimary-9. Cr. 3
Social studies program in elementary and middle schools emphasizing intellectual, social and affective development. Designing programs based on social priorities, modern socioeconomic, cultural, ethnic, political concepts.
6530 Teaching English as a Second Language/Foreign Language: Methods II. Cr. 2-3
Prep: admission to College of Education. Methods and techniques; English as an international/intranational language. Students micro-teach lessons and prepare teaching materials which emphasize the reading and writing language skills. (Y)

6580 Culture as the Basis for Language Teaching. Cr. 2-4
Prep: admission to College of Education. Culture examined in a multidisciplinary theoretical framework, to provide students with objective relativistic and holistic attitude about human diversity, enabling them to relate to pupils in urban areas. (B)

MATHEMATICS EDUCATION COURSES (MAE)

5050 (MAT 1110) Mathematics for Elementary School Teachers I. Cr. 3
Undergrad, prep: one of following within previous two semesters: satisfactory score on placement exam; or at least C-minus in MAT 1050 or grade of S in MAT 0995; post-baccalaureate students: satisfy the undergraduate placement or completion of college math course at level of pre-Calculus or above. Undergrads. and post-baccalaureate students must register for MAT 1110, not MAE 5050; grad. students must register for MAE 5050, not MAT 1110, with consent of instructor. No degree credit in Colleges of Science or Liberal Arts. Offered for graduate credit only. Sets and Venn diagrams; mathematical systems, including group, ring, and field properties; set of real numbers and its common subsets: their properties, algorithms, and applications; number theory, including fundamental theorem of arithmetic; ratio, proportion, and percents; introduction to the complex number system. (F,W)

5060 (MAT 1120) Mathematics for Elementary School Teachers II. Cr. 3
Prep: MAT 1110 or MAE 5050. Undergrad. and post-baccalaureate students must register for MAT 1120, not MAE 5060; grad. students must register for MAE 5060, not MAT 1120. No degree credit in Colleges of Science or Liberal Arts. Open only to students in teacher preparation curricula. Geometry, with emphasis on inductive investigations and conjecturing; measurements of two- and three-dimensional figures; introduction to probability and descriptive statistics; relations and functions; elements of algebra; analytic geometry of the line. (F,W)

5100 (MAT 5180) Geometry for Middle School Teachers. Cr. 3
Prep: MAE 5060 or MAT 1120. No credit toward a major or minor for secondary mathematics teaching. MAE 5100 may be taken for undergraduate credit only. Development of Euclidean geometry as a mathematical system; related historical topics; introduction to other geometries; selected topics such as transformations and tessellations. (F)

5110 (MAT 5190) Number Theory for Middle School Teachers. Cr. 3
No credit toward a major or minor for secondary mathematics teaching. MAE 5110 may be taken for graduate or undergraduate credit; MAT 5190 may be taken for undergraduate credit only. Prep: MAT 1800, MAE 5060 or MAT 1120. Elementary functions and their applications; analytical geometry; intuitive concepts of differential and integral calculus; computer applications in middle and junior high school mathematics. (W)

5120 (MAT 5210) Number Theory and Abstract Algebra for Middle School Teachers. Cr. 3
No credit toward major in mathematics or secondary mathematics. MAT 5120 may be taken for undergraduate or graduate credit; MAT 5120 may be taken for undergraduate credit only. Prep: MAT 1120 or MAE 5060, and MAT 1800. Topics from elementary theory of numbers and abstract algebra underpinning middle school mathematics curriculum. (F,W)

5130 (MAT 5130) Problem Solving for Middle School Teachers. Cr. 3
Prep: MAT 1120 or MAE 5060, and MAT 1800. No credit towards a mathematics major or secondary mathematics education major; MAE 5130 may be taken for graduate or undergraduate credit; MAT 5130 may be taken for undergraduate credit only. Development of mathematical problem solving in middle grades mathematics education; study of non-routine problems; problem solving strategies; historical connections; connections to selected mathematics content and topics in other disciplines. (S)

5150 Methods and Materials of Instruction — Secondary School Mathematics. Cr. 3
Prep: admission to College of Education; 19 credits toward secondary mathematics major or minor. To be elected before student teaching. Mathematics in secondary school; major concepts of secondary school mathematics; methods and instructional materials; classroom administration; modern trends. (Y)

6050 Teaching Mathematics in the Middle Grades. Cr. 3
Prep: admission to College of Education. Creative use of resources and materials for improving the mathematics competencies of middle school and junior high school students; organizing the mathematics classroom for effective instruction; promising trends; related research. (Y)

6150 Special Topics. Cr. 1-6 (Max. 12)
Current issues and trends; areas of neglected content; curriculum proposals; related research. Topics to be announced in Schedule of Classes. (I)

6200 (MAT 6220) Teaching Arithmetic, Algebra and Functions from an Advanced Perspective. Cr. 3
Prep: MAT 5120, 6170, or 6180, or consent of instructor. Students gain profound understanding of K-12 mathematics. Concepts underlying topics and procedures; their connections to higher mathematics. Teaching with Simplify; application of mathematical understanding to teaching practices. (Y)

6210 (MAT 6210) Teaching Geometry, Probability and Statistics, and Discrete Mathematics from an Advanced Perspective. Cr. 3
Prep: completion of a major in mathematics or secondary mathematics education. Historical perspectives, common conceptions and misconceptions, applications, technology, and mathematical connections relative to teaching geometry (including trigonometry), probability and statistics, and discrete mathematics in secondary school. (Y)

6400 Elementary School: Mathematics Curriculum and Assessment. Cr. 3
Prep: admission to M.Ed. program. Developing competence in school mathematics programs: objectives, procedures, materials, organizational patterns, evaluation. (T)

READING EDUCATION COURSES (RDG)

4430 Teaching Reading in Subject Matter Areas. Cr. 3
Prep: admission to College of Education. Consideration of reading in relation to subject matter instruction. Strategies for teaching comprehension, study and application skills in the content areas. Informal diagnostic procedures. Techniques for meeting individual needs. (T)

6400 Practicum in Developmental Reading. Cr. 1-4
Prep: admission to College of Education. Identifying and solving field problems in developmental reading, management of reading instruction, the importance of reading in the content areas. (T)

READING, LANGUAGE and LITERATURE

College of Education 119
EDUCATION COURSE (RLL)

6120  Reading in the Content Areas. Cr. 3
Practical approach to the problems of reading disability as they affect the subject matter teacher in social studies, science, mathematics and other areas.  (T)

SCIENCE EDUCATION COURSES (SCE)

5010  Biological Sciences for Elementary and Middle School Teachers. Cr. 3-4
Significant biological principles, generalizations and understandings with relation to their use with children. Appropriate learning activities: experiments, field trips, text and reference materials, audio-visual resources, evaluation. Material fee as indicated in the Schedule of Classes.  (F,W)

5020  Physical Sciences for Elementary and Middle School Teachers. Cr. 3-4
Significant principles, generalizations and understandings in the physical and earth sciences with relation to their use with children. Appropriate learning activities including experiments, field trips, reference materials, audio-visual resources. Material fee as indicated in the Schedule of Classes.  (F,W)

5040  Field Course Exploring the Natural Environment. Cr. 1-6
Field and laboratory study of local plants, animals, and the physical environment, including climate, geology and astronomy. Interrelationships emphasized; techniques for using the out-of-doors as a learning laboratory.  (W)

5060  Methods and Materials of Instruction in Secondary School Science I. Cr. 3
Prereq: admission to College of Education. Role of science in the secondary curriculum. Problems and techniques of teaching science in the secondary schools; objectives, planning laboratory experiments, demonstrations, directed study, student projects, text and reference material, audio-visual resources, evaluation. Material fee as indicated in the Schedule of Classes.  (F)

5070  Methods and Materials of Instruction in Secondary School Science II. Cr. 3
Prereq: admission to College of Education; SCE 5060 recommended. Problems of selecting and organizing teaching-learning materials in secondary school science. Development of illustrative instructional units. Resources for professional growth of science teachers; professional literature and organizations.  (W)

5080  Teaching Environmental Studies. Cr. 3-6
For teachers of all academic disciplines and from all school levels, as well as persons of other occupational interests. Environmental problems, possible solutions, and their implications for classroom teaching and curriculum. Material fee as indicated in the Schedule of Classes.  (S)

SOCIAL STUDIES EDUCATION COURSES (SSE)

6710  Methods and Materials of Instruction in Secondary Social Studies. Cr. 3
Prereq: admission to College of Education. Foundations of social studies instruction and curriculum; methods of teaching in middle, junior, and senior high school.  (T)

6730  New Perspectives in Social Studies Education. Cr. 3
Prereq: admission to College of Education. Development of curricular lesson plans, unit plans, and other teaching strategies utilizing current approaches in social studies education.  (W,S)

SPECIAL EDUCATION COURSES (SED)

5100  Inclusive Education. Cr. 2
Open only to undergraduate nonmajors. Strategies and techniques for teaching children and youth with differing academic, social-emotional, and sensory-physical abilities together in general education, using best instructional practices.  (Y)

5030  Education of Exceptional Children. Cr. 3
Prerequisite or corequisite to all SED courses taken for major credit. General background and overview information concerning various classifications of exceptional children, youth and young adults, their role in society, and their education.  (T)

5040  Speech Improvement in the Classroom. Cr. 2
Identification of the speech characteristics and needs of teachers and pupils; deviations from normal speech; integration of speech improvement in classroom activities.  (S)

5060  Developing Observation and Assessment Skills: Laboratory/Seminar. Cr. 3
Prereq: SED 5030. Investigation and application of appropriate evaluative techniques for use with learners with mental impairments in an educational setting.  (Y)

5090  Special Education and Transition Services for Students with Disabilities. Cr. 3
Prereq: SED 4060; admission to College of Education. Characteristic abilities in secondary programs leading to the development of skills necessary for functioning as an adult within communities.  (Y)

5110  Mental Impairments and the Cognitive Process. Cr. 3
Prereq: SED 5030; admission to College of Education. Characteristics, classifications, etiologies, evaluation and learning strategies for the improvement of the cognitive processes in learners with a mental impairment.  (F,W)

5130  Curriculum Development: Mental Impairments. Cr. 3
Prereq: SED 5030 and 5110; admission to College of Education. Specialized instructional approaches, evaluation, techniques, curriculum and instructional aids for educating children, youth, and young adults with mental impairments within the school and community.  (Y)

5140  Behavior Management: Positive Behavior Support. Cr. 3
Prereq: SED 5030 or equiv; admission to College of Education. Proactive approaches to dealing with behavioral challenges and social-emotional needs of children and youth; functional behavior analysis, behavior intervention plans.  (Y)

5260  Effective Instructional Strategies for Exceptional Learners. Cr. 4
Prereq: SED 5030 or equiv; admission to College of Education. Effective instructional strategies for students with special needs; multi-level and differentiated instruction, scaffolding, multi-modal instruction.  (F)
Collaborative Support for Inclusive Education of Students with Special Needs. Cr. 3
Prereq: SED 5030, 5010, or 7050. Methods of organizing and implementing educational and behavioral support services for students with special needs, to facilitate successful inclusive education in K-12 schools.

Problems in Special Education: Critical Epochs in Exceptionality. Cr. 1-6 (Max. 8)
Prereq: successful completion of at least five credits in anatomy and physiology, including laboratory. For teachers, supervisors, and administrators. Seminars and workshops dealing with problems in educating handicapped children in pre-school, elementary, and secondary programs. Topics to be announced in Schedule of Classes.

Seminar in Special Education Teaching and Disabilities. Cr. 2-3
Prereq: admission to College of Education; coreq: student teaching in special education. Selected topics, problem solving, and reflection on experiences as a student teacher facilitating the learning of children with a mental and/or related disability.

Introduction to Early Childhood Special Education. Cr. 3
History, philosophy, legislation, and ‘best practice’ of early intervention and educational programs for young children, birth to eight years old, who have developmental delays or disabilities.

Teaching Communication at the Secondary Level. Cr. 3
Prereq: admission to College of Education; fifteen credits in speech. Philosophy, pedagogical issues, and methods for teaching speech in secondary schools.

Technology Applications in Education and Training. (LIS 6360) Cr. 3
Prereq: admission to College of Education. Technological applications to education, training, and instruction within educational, industrial, and human services settings. Students examine, develop, and/or evaluate unique instructional programs. For educators and non-educators interested in exploring technological applications in education.

Producing Technology-Based Instructional Materials. (LIS 6370) Cr. 2-3
Prereq: admission to College of Education. Design and development of instructional media and materials for use in educational, industrial, and/or human services programs; development of computer-generated instructional materials.

Light, Sound, Space, and Motion. Cr. 3
Required for certification in Art Education. Laboratory experiences in planning and producing animated films, instructional video, and slide/sound presentations. Students prepare storyboards, write scripts, prepare titles and credits, mark on film and slides, produce Super-8 animation, use 35mm camera with copy stand, edit, splice film, record and synchronize sound tracks, and produce single camera instructional video. Methods and materials for teaching film and video in schools, producing visual aids, or producing film/slides/video for artistic expression. Material fee as indicated in the Schedule of Classes.

Foundations of Instructional Systems Design. (LIS 6350) Cr. 4
Alternative systems models of instructional design; basic design principles, methods and techniques of pre-design analysis; instructional strategy selection and sequencing.

Designing Web Tools for the Classroom. Cr. 3
No credit for I T students after I T 7140. Design, development and evaluation of learning experiences using the World Wide Web. Student creates and evaluates learning activities using the Web; creation of personal learning portal. Basics of HTML and common authoring tools.

Instructional Applications of Computer Graphics. Cr. 3
Instruction and laboratory experiences in the design, production, and application of computer graphics in the classroom and other educational settings. Programming experiences in animation, charts and graphs, and simple drawing techniques. Material fee as indicated in the Schedule of Classes.

Internet in the Classroom. Cr. 4
Developing problem-based instruction by integrating the Internet into the curriculum and lessons. Students examine models for lesson development and investigate how the Internet may be used as a resource in those lessons.

Role of the Counselor in Substance Abuse. Cr. 2
Prereq: graduate standing. An overview of counseling principles, procedures, and methods unique to substance abuse settings. Use of specific counseling strategies and treatment models with substance abusers.
5090 Family Education and Counseling: Substance Abusers. Cr. 3
Prereq: CED 5030 or graduate standing. Analysis of the structure and functioning of family systems in which there is substance abuse; effective therapeutic strategies in working with chemically-abusive families. (L)

6070 Introduction to Counseling. Cr. 3
Prereq: admission to master’s program in counseling. Overview of counseling profession, including: helping process, theories of counseling and consulting, training, credentialing, ethical and legal standards, professional organizations, history and trends of basic research. (T)

6080 Theories of Counseling. Cr. 3
Prereq: admission to master’s program in counseling. Major theories of counseling: client-centered, rational-emotive, Gestalt, Adlerian, reality, psychoanalytic, behavioral, cognitive. Ethical, legal, multicultural factors in conceptualization and delivery of counseling services in school, rehabilitation and community agency settings. (T)

6700 The Role of the Teacher in Guidance. Cr. 2
Prereq: admission to College of Education. Introduction to guidance principles, techniques and roles, with stress on classroom application. Experiential laboratory sessions required to sensitize educators to the basic ideas and skills involved in being a helper. Primarily for school personnel other than counselors. (T)

6710 Professional Seminar: Contemporary Issues. Cr. 1
Principles, procedures and methods specific to a critical contemporary issue, such as: child abuse, sexual abuse, bereavement, stress management, infectious diseases, self-esteem, self-efficacy, conflict management. (T)

6720 Workshop in Counseling. Cr. 2-4 (Max. 18)
For counselors, teachers, and pupil personnel workers. Consideration of counseling issues in school, agency and community settings. Counseling, consultation, and coordination dimensions of counseling in substance abuse, family groups, and human sexuality issues. (T)

6730 Counseling of Special Populations. Cr. 3-9
A study of the uniqueness of several special populations such as adults, women and minorities to provide an awareness of their special influences on the counseling process. (T)

EDUCATIONAL HISTORY and PHILOSOPHY (EHP)

3600 Introduction to the Philosophy of Education. Cr. 3
Prereq: admission to College of Education. Leading philosophies of education as they bear upon education as a profession and as a discipline. (T)

EDUCATIONAL PSYCHOLOGY (EDP)

3310 Educational Psychology. Cr. 3
Prereq: admission to College of Education. Introductory course in educational psychology. Topics include, but are not limited to: child and adolescent development, cognitive and behavioral learning theories, information processing, motivation and evaluation. Includes study of exceptional children and those with cultural differences. (Y)

5430 School Violence and Conflict Resolution. Cr. 3
Conflict resolution and school violence as they relate to child growth and development and school organization and policies. (F)

5450 Child Psychology. Cr. 2-3
Prereq: admission to College of Education. Basic concepts, research findings and problems regarding child, pre-adolescent and early adolescent developmental needs as they apply to school and home environments; includes study of exceptional children and those with cultural differences. (T)
COLLEGE OF ENGINEERING

INTERIM DEAN: Ralph H. Kummler
Foreword

College Mission Statement
The College of Engineering has three important missions: teaching, research and outreach — serving the region, state and nation as part of an urban comprehensive research university. Students are prepared for professional practice, graduate study, and lifelong learning, and to lead society. Faculty members develop the scientific and technological base for the engineering profession, and disseminate advanced technical knowledge to engineers, other professionals, and the public. A balance among the three missions is sought through a partnership built among students, faculty, staff, alumni, government, and private industry. This can be achieved by maintaining an academic environment that is both intellectually stimulating and supportive of all of its constituents regardless of race, gender, or ethnic background.

College Organization
The academic programs of the College of Engineering are organized in two Divisions: Engineering and Engineering Technology. The Division of Engineering includes six academic Departments: Biomedical Engineering (graduate degrees), Chemical Engineering and Materials Science, Civil and Environmental Engineering, Electrical and Computer Engineering, Industrial and Manufacturing Engineering, and Mechanical Engineering. Programs leading to the Bachelor of Science, Master of Science, and Doctor of Philosophy degrees in engineering are offered by the six departments in the Division of engineering. Five programs leading to a Bachelor of Science in Engineering Technology degree are offered in the Division of Engineering Technology. A Master of Science in Engineering Technology degree is also offered in this Division.

The Profession of Engineering
Engineering requires men and women of imagination who can plan and create. Their creations include the laser, the transistor, communication networks, automotive safety devices, systems of spacecraft telemetry and aids for the handicapped. Engineers design, simplify, refine and economize. They are pragmatists serving the needs of society through continual reconstruction and improvement of human surroundings. Engineers are responsible for the design and construction of energy generating and distribution systems, air and water pollution control projects, as well as transportation systems and the vehicles required by our mobile society. From the engineers must come anti-skid devices for hard-braked automobiles, synthetic materials, biochemicals, fire-resistant homes and ‘eyes’ for the blind. The engineer’s resources include an intimate knowledge of scientific laws and their applications to engineering problems. An ability to use mathematics and computers and, above all, an imaginative and an inquiring mind are primary tools.

Engineers do not devote their attention solely to innovations in technology. They look beyond their inventions and conceptions to consider the societal effect of their work, including its economic, aesthetic, safety, and environmental aspects.

Engineers can start their careers in many functional roles — designer, test engineer, manufacturing engineer, sales engineer, researcher, or a combination of these and other roles. Engineering has become a profession which often leads to executive management positions. As more and more of the decisions of management in government and business are based on technical considerations, engineers with the necessary background are called upon to make these decisions.

At present, the minimum education required for general competence in the practice of engineering is a four-year collegiate program leading to a bachelor’s degree in one of the fields of engineering. However, many engineering positions require an additional year of education at the graduate level leading to the master’s degree. Whenever possible, students are urged to continue their education to this point. For engineering research or teaching, and in some areas of practice, the doctoral degree is recommended. For further information about graduate programs in engineering, consult the Wayne State University Graduate Bulletin.

For all engineers, continuing professional competence in the midst of our constantly changing technology requires educational renewal and a life-long dedication to continuing education. The College offers seminars, institutes and off-campus programs designed to meet this need. In addition, regular College courses are available on an elective post-degree basis.

The Engineering Technologist
The evolution of our civilization has always been closely associated with technology and science. Now, and in the future, this association will become even more important. New knowledge has inspired advances in technology, resulting in new career opportunities: far-reaching developments have been made in communications and instrumentation technology; highly sophisticated machine tools and manufacturing processes have come into being; new energy sources and new man-made materials have been developed; and computer applications have revolutionized the techniques of industrial manufacturing and management.

This on-going expansion of scientific and engineering knowledge has changed the make-up of the engineering team with the inclusion of the engineering technologist. The engineering technologist, in cooperation with the engineer, organizes people, materials and equipment to design, construct, operate, maintain and manage technical engineering projects. He/she should have a commitment to that technological progress which will create a better life for everyone. Because of the increasing challenges in this information age, it is no longer possible for one person to master all the knowledge and skills necessary to execute technical projects. Quite often a team effort is required, with each member of the team highly trained in a specific area. Today’s engineering teams involve engineers and engineering technologists and may also include technicians, scientists, physicians, craftsmen, and other specialists.

Engineering technology supports engineering activities through a combination of scientific and professional knowledge with technological skills, and concentrates on the industrial applications of engineering. Because of the extensive variety of functional opportunities, and the wide variety of the industrial enterprises available to the engineering technologist, there has been a great deal of specialization. An engineering technologist can specialize in three related ways: disciplinary, function and industry. For example, the discipline could be mechanical, the function could be design and the industry could be automotive; or the discipline could be electrical, the function field installation and the industry electric power generation.

College Facilities
With the completion of the Manufacturing Engineering Building, College facilities now include four separate buildings with over 214,000 square feet of classroom, office, and laboratory space. Among those facilities are multimedia classrooms, a comprehensive computer center, electronics and machine shops, dedicated teaching laboratories, and sophisticated research laboratories. The four multimedia classrooms support innovative course delivery techniques, including interactive distance learning with classrooms at a variety of sites within Wayne State, at other colleges and universities, and at industrial sites. The computer facilities include dedicated computer graphics, design, and personal computing hardware and software.

The Division of Engineering Technology is housed in a separate building of approximately 24,000 square feet, located at 4855 Fourth Street.
The undergraduate laboratories provide facilities in such areas as computer graphics, fluid mechanics, thermal sciences, system dynamics, statistical computation and materials science. Some specific laboratories associated with departmental engineering specializations include: chemical measurements; chemical unit operations; materials testing and processing; electron microscopy; optical metrology; soil mechanics; environmental and hydraulic engineering; roadway and building materials; structural modeling; analog and digital communications systems; computer systems; control systems; analog circuits; digital systems; microcomputers and microprocessor applications; power systems; electronics; optics; computer vision; artificial neural networks; integrated circuits fabrication; automotive engineering; human factors engineering; computer aided manufacturing; robotics; sand casting and testing; and stress analysis. These laboratories are used for instructional and research purposes along with such research facilities as a molecular beam laboratory; a clean room facility for device materials research; a biomechanics accelerator and impact laboratory; an acoustics and noise control laboratory; and a structural behavior laboratory. All of these are available for experimentation and research in connection with the undergraduate curricula on a college-wide basis.

The College provides support for the various instructional and research laboratories in the construction, modification, repair, calibration and installation of experimental equipment. In addition, the College offers sophisticated assistance in the design of electronic and instrumentation equipment and devices. Qualified students are encouraged to use these facilities under the supervision of trained professionals.

Many undergraduate and graduate students pursue their studies in the College while working in local industry, either full-time or part-time, where unique research facilities unavailable on campus may be found. In such situations, students are encouraged to pursue their college-credit research at the employment site, where they work under the joint supervision of their faculty adviser and a company representative. Such research can take the form of undergraduate directed study courses, Master of Science theses, or Ph.D. dissertations.

Accreditation

In addition to accreditation of Wayne State University by the North Central Association of Colleges and Secondary Schools, all of the undergraduate curricula of the Division of Engineering leading to a Bachelor of Science degree are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). The Electrical/Electronic Engineering Technology program, and the Mechanical Engineering Technology program, offered by the Division of Engineering Technology, are accredited by the Technology Accreditation Commission (TAC) of ABET. Curriculum accreditation is based upon careful periodic appraisal of the faculty, educational program, and facilities of the College. This approval provides assurance of an up-to-date, high quality education pertinent to the engineering profession. Such accreditation is recognized by other universities, prospective employers, and state professional licensing agencies.

Location of the College

The College is located in the heart of Detroit, Michigan, renowned as a center of automotive engineering and production. This industrial center provides a wealth of examples of modern engineering practice and opportunities to explore the latest in vehicle design and production, automation design, steel production, transportation planning, telemetry, hydraulic and pneumatic controls, electric power generation, and computer design and production. The many industries of southeastern Michigan provide engineering students with rich and varied work experiences through full or part-time employment or through the Cooperative Education Program described on page 132.

The College is affiliated with thirteen other schools and colleges of Wayne State University. The University setting, with its 30,000 students, provides a broad selection of educational opportunities on an interdisciplinary basis.
**DEGREE PROGRAMS**

**Division of Engineering**

*BACHELOR OF SCIENCE in*
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering

*MASTER OF SCIENCE in*
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Hazardous Waste Management
- Industrial Engineering
- Manufacturing Engineering
- Materials Science and Engineering
- Mechanical Engineering

*DOCTOR OF PHILOSOPHY in*
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Electromechanical Engineering
- Manufacturing/Industrial Engineering
- Materials Science and Engineering
- Mechanical Engineering

*GRADUATE CERTIFICATE Programs in*
- Environmental Auditing
- Hazardous Materials Management on Public Lands
- Hazardous Waste Control
- Polymer Engineering

**Division of Engineering Technology**

*BACHELOR OF SCIENCE in Computer Technology*

*BACHELOR OF SCIENCE in Engineering Technology with a major in*
- Electrical/Electronic Engineering
- Electromechanical Engineering
- Manufacturing/Industrial Engineering
- Mechanical Engineering
- Product Design Engineering

*BACHELOR OF SCIENCE in Manufacturing Engineering Technology*

*MASTER OF SCIENCE in Engineering Technology*

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* For requirements, consult the Wayne State University Graduate Bulletin.

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**COLLEGE OF ENGINEERING DIRECTORY**

Dean: Room 1150, Engineering Building; 577-3775
Assistant Dean—Student Affairs and Minority Programs: Room 1170, Engineering Building; 577-3780
Associate Dean—Research: Room 1164, Engineering Building; 577-3861
Associate Dean—Academic Affairs: Room 1172, Engineering Building; 577-3040
Director of Alumni and Corporate Relations: Room 1158, Engineering Building; 577-1306
Business Manager: Room 3100, Engineering Building; 577-3817
Engineering Technology: 4855 Fourth Street; 577-0800
Coordinator, Cooperative Education: Career Planning and Placement, 1001 Faculty/Administration Building; 313-577-3390
Biomedical Engineering: 818 West Hancock; 577-1344
Chemical Engineering and Materials Science: Room 1100, Engineering Building; 577-3800
Civil and Environmental Engineering: Room 2100, Engineering Building; 577-3789
Electrical and Computer Engineering: Room 3100, Engineering Building; 577-3920
Graduate Certificate Program in Polymer Engineering: Room 1100, Engineering Building; 577-3800
Hazardous Waste Management: Room 1100, Engineering Building; 577-3800
Industrial and Manufacturing Engineering: Room 2143, Manufacturing Engineering Building; 577-3821
Mechanical Engineering: Room 2100, Engineering Building; 577-3845
Center for Automotive Research: Room 2121, Engineering Building; 577-3887

Website: http://www.eng.wayne.edu/

**The Engineering Building** is located at 5050 Anthony Wayne Drive.

**The Engineering Technology Building** is located at 4855 Fourth Street.

**The Manufacturing Engineering Building** is located at 4815 Fourth Street.

Mailing address for all offices:
College of Engineering
Wayne State University
5050 Anthony Wayne Drive
Detroit, MI 48202

*FOR REQUIREMENTS, CONSULT THE WAYNE STATE UNIVERSITY GRADUATE BULLETIN.*


**STUDENT ORGANIZATIONS and FINANCIAL AID**

Organizations

The **Engineering Student-Faculty Board** coordinates and is responsible for all organized student activities in the College. In addition, it sponsors certain college-wide programs including the College of Engineering Open House.

**Chi Epsilon**, a national civil engineering honor fraternity, was founded at the University of Illinois in 1922. The forty-eighth chapter of the fraternity was installed at Wayne State University on May 11, 1956. Election to membership is based on scholarship, character, practicality, and sociability for undergraduate and graduate students, and professional eminence for members of the profession.

The **Engineering Technology Student Organization** is an umbrella organization representing all the students in the Division of Engineering Technology. It was founded in Fall 1987.

**Eta Kappa Nu**, a national electrical engineering honorary society, was founded at the University of Illinois in 1904. Election to this society is based on demonstrated outstanding ability, as evidenced by scholarship and individual achievement. Delta Alpha Chapter was installed at Wayne State University on January 18, 1960.

**Pi Tau Sigma** is a national mechanical engineering honorary society founded in 1915 at the University of Illinois and at the University of Wisconsin to ‘foster the high ideals of the engineering profession.’ Students who have given promise of becoming outstanding leaders in the mechanical engineering field are elected to membership. The Tau Phi Chapter was installed at Wayne State University on May 20, 1960.

**Tau Alpha Pi** is a national honor society for engineering technology, extending recognition and honor to the highest four per cent of an institution’s total engineering technology students. The Beta Michigan Chapter of Tau Alpha Pi was founded in Winter 1989.

The **Tau Beta Pi Association** is a national honorary engineering society which was founded at Lehigh University in 1885. By election to membership the society recognizes that the member has conferred honor on his/her Alma Mater by distinguished scholarship and exemplary character as an undergraduate or by attainments in the field of engineering after graduation. The Michigan Epsilon Chapter of Tau Beta Pi was installed at Wayne State University on March 10, 1951.

The **Society of the Sigma Xi** is a national society devoted to the encouragement of research in science, pure and applied, and to the recognition of achievement in those fields. Undergraduates of high scholastic standing in two or more departments of pure or applied science who have shown promise of ability to conduct original investigations in those fields may be nominated by the faculty for election to associate membership in the Wayne State University Chapter. Graduate students may be nominated to membership on the basis of demonstrated research ability and high scholarship.

**Theta Tau**, a national professional engineering fraternity, was established at the University of Minnesota in 1904. Epsilon Beta, the twenty-seventh student chapter, was founded on May 19, 1951, at Wayne State University.

The **Association of Black Engineers and Applied Scientists (ABEAS)**, founded in 1969, was established to encourage the choice of engineering and science as career fields for black students. ABEAS is a chartered chapter of the National Society of Black Engineers (NSBE).

The **Society of Hispanic Professional Engineers (SHPE), Inc.**, is a non-profit organization dedicated to increasing the participation of Hispanic professionals and college students in the fields of engineering and science.

The **Society of Women Engineers** student chapter is an educational service organization dedicated to making known the need for women engineers and encouraging young women to consider an engineering profession. The Wayne State University student chapter was founded in 1973.

The **Engineering Graduate Students Association** provides engineering graduate students with both educational and recreational activities through technical seminars, plant tours, and cultural and other events. Its Website is: http://www.egsa.wayne.edu/

**Student Branches of Professional Societies** add much to the education of their members. Many outstanding engineers from the community come to the campus each year to address meetings of the branches. Other activities include social meetings and trips to important engineering projects. Student branches of the following professional societies have been active on the campus for many years:

American Institute of Chemical Engineers
American Institute of Mining, Metallurgical, and Petroleum Engineers
American Society of Civil Engineers
American Society of Mechanical Engineers
American Society of Metallurgists
Engineering Society of Detroit, Student Chapter
Institute of Electrical and Electronics Engineers
Michigan Society of Professional Engineers
Society of Automotive Engineers
Society of Manufacturing Engineers

**Scholarships and Financial Aid**

An increasing number of scholarships are granted each year to undergraduate students in the College of Engineering. The scholarships differ greatly in their specifications: some stress high scholarship, others place emphasis on financial need or campus citizenship. Engineering students are also eligible for some of the general University scholarships granted each year.

Numerous loans and grants as well as work study programs are available through the Office of Scholarships and Financial Aid. Grants in Aid as well as National Direct Student Loans are available through the Office of Scholarships and Financial Aid.

From time to time, scholarships and other opportunities are opened to undergraduate students on other than a continuing basis. Inquiries about the College scholarships below, as well as about other opportunities, should be directed to the Assistant Dean of the College of Engineering.

**Timothy Alexander Scholarship**: Award to engineering students in the co-op program with a minimum 2.7 g.p.a. and demonstrated financial need and outstanding leadership qualities.

**Murray and Helen Altman Scholarship**: Award to full-time undergraduate majoring in engineering, with demonstrated financial need and outstanding scholastic and leadership qualities.

**The American Metal Climax Foundation Scholarship—Climax Molybdenum**: Award open to materials science and engineering students.

**Anderson Consulting Scholarship**: Awarded to full-time engineering undergraduate juniors and seniors who have a 3.5 g.p.a. or above and who have demonstrated leadership in student organizations and interest in information systems and technology.

**Dr. Robert Banasik, P.E., Endowed Scholarship for Mechanical Engineering**: Awarded to full-time mechanical engineering juniors and seniors who have desirable qualities of character and leadership, demonstrated academic merit and financial need.
Arthur R. Carr Memorial Scholarship: Awarded to any full-time undergraduate of at least sophomore ranking, with demonstrated financial need, and outstanding scholarship and leadership qualities.

Dow Engineering Scholarship and Minority Recruitment: Awarded to full-time undergraduate students of at least junior standing with a minimum 3.0 g.p.a.

Professor Ernest B. Drake Scholarship: Awarded to full-time student with junior or senior standing, majoring in chemical engineering, who has demonstrated financial need, outstanding leadership qualities, and a minimum 2.5 g.p.a.

Engineering Undergraduate Scholarship: Awarded to any undergraduate engineering student of at least junior standing and minimum 3.0 g.p.a.

Fiftieth Anniversary Engineering Alumni Scholarship Fund: Awarded to full-time junior undergraduate engineering students who are U.S. citizens or permanent residents with a minimum 3.0 g.p.a. and demonstrated financial need. Preference given to those demonstrating exceptional research work on an engineering project.

Wayne State University College of Engineering / Ford Motor Company / Detroit Urban League Minority Engineering Scholarship: Awarded $15,000 to incoming freshmen to engineering students who graduated from a public high school in the cities of Detroit, Hamtramck, Highland Park, Inkster, or Pontiac. Candidates must have a minimum g.p.a. of 3.0 and be enrolled full-time in an engineering program at Wayne State University.

General Motors Minority Engineering and Science Scholarship: Awarded to a full-time undergraduate minority engineering student with a minimum 3.2 g.p.a.

Jason Guzik Memorial Scholarship: Awarded to a senior level chemical engineering student with demonstrated academic leadership, and desirable qualities of leadership, with a minimum 3.0 g.p.a.

The Howard M. Hess Scholarship for Engineering Technology Students: Award of $500 open to engineering technology students with outstanding scholarship and leadership qualities.

William R. Kales Memorial Scholarship: Awarded to any full-time undergraduate engineering student with a minimum 3.2 g.p.a. and demonstrable financial need.

Gregory Kosmowski Memorial Scholarship: Awarded to any full or part-time undergraduate engineering student who is resident of Michigan, natural born U.S. citizen or of Polish-American descent.

Charles Lewitt Memorial Scholarship: Awarded to any full-time graduating senior in civil engineering with outstanding scholarship and leadership qualities.

The Lubrizol Scholarship Program: Award of $1,000 open to junior or senior chemical engineering majors with outstanding scholarship and leadership qualities.

Mercier Corporation Scholarship in Materials Science and Engineering: Awarded to any full-time junior with demonstrable financial need, outstanding scholarship, and majoring in materials science and engineering.

James E. and Christina L. Orr Scholarship: Awarded to a full-time engineering undergraduates with demonstrated financial need, outstanding scholastic achievement and leadership qualities.

Joseph N. Prentis Scholarship in Engineering: Awarded to a full-time undergraduate engineering students of junior or senior standing, with a minimum 3.0 g.p.a.

Jay T. Strausbaugh Memorial Scholarship: Full one-year tuition awarded to a full-time mechanical engineering undergraduate with demonstrated financial need, high qualities of character and leadership, and a minimum 3.5 g.p.a.

Frank G. Viscomi Memorial Scholarship: Awarded to a full-time materials science and engineering student in good standing with the University and College, who submits the best senior research paper.

Werner F. Vogel Endowed Scholarship in Mechanical Engineering: Awarded to mechanical engineering undergraduates with preference given to part-time students who have financial need, at least a 3.0 g.p.a., and desirable qualities of character and leadership.

Wilso and Blaurock Scholarship for Mechanical Engineering: Awarded to full-time mechanical engineering juniors, with preference given to qualified African-American or female students who have financial need, qualities of leadership, professional activities and demonstrated academic promise.

Robert G. Wingerter Awards: Award of $750 open to a graduating senior demonstrating outstanding scholarship and leadership qualities. This is the most prestigious award recognized by the College.

John G. Wright Memorial Scholarship: Awarded to a full-time mechanical engineering student who demonstrates financial need and outstanding scholarship and leadership qualities.
DIVISION OF
ENGINEERING
Bachelor of Science

Undergraduate Program Goals

The overall goal of the undergraduate engineering degree programs at Wayne State University is to prepare students for success in their immediate and long-term professional careers as engineering practitioners as well as for pursuing graduate and professional studies and lifelong learning. Therefore the programs seek to ensure that all Wayne State engineering students:

1) Possess a fundamental understanding of mathematics, basic sciences, discipline-specific engineering sciences, and engineering design, and that they will have the ability to apply this knowledge to identify, formulate, and solve complex engineering problems.
2) Have practical engineering laboratory experiences in which they will design and conduct experiments.
3) Are able to use computers as communications, computational, and design tools.
4) Have an understanding of the uncertainties involved in engineering systems and the role of the probabilistic and statistical techniques in dealing with uncertainty.
5) Possess strong skills in written and oral communication.
6) Have a strong design experience throughout the curriculum that includes identification, formulation and solution of open-ended problems. This design experience will enable them to work in a multidisciplinary team environment.
7) Have an understanding of ethics and professionalism as well as of the professional issues germane to engineering practice.
8) Be educated in a variety of social sciences, arts, and humanities in order to broaden their horizons, to sensitize them to contemporary issues, to enable them to better understand the global and societal context of technical issues, and to prepare them for effective interaction with others.

Recommended High School Preparation

In order to place sufficient emphasis on the English, mathematics, physics, and chemistry required for normal progress in engineering, restrictions are placed on the fifteen acceptable units of high school credit. The recommended high school preparation for admission to the College of Engineering is:

- English: 4 units
- Algebra: 2 units
- Plane and Solid Geometry: 1.5 units
- Trigonometry: 0.5 unit
- Physics: 1 unit
- Chemistry: 1 unit
- Social Science or Foreign Language: 2 units
- Elective: 3 units

An incoming freshman with this background enters the regular scheduled program if he/she earns satisfactory scores on the qualifying examinations in mathematics, chemistry and English (see below). Students having only two of the above units in mathematics and one unit of physics, chemistry, or biology may also be admitted to the College of Engineering. Proficiency in the areas of the missing units can be obtained by supplementary course work before entering the courses normally scheduled for freshman engineering students. Further, admission may be granted with fewer than four units of English provided evidence of competency in English can be shown.

Admission

Admission to the undergraduate professional programs in the Division of Engineering, College of Engineering, is dependent upon high school grade point average (g.p.a.) and ACT or SAT scores for those students entering directly from high school, and upon grade point average and level of curriculum completion for transfer students from community colleges or other universities. The following admission criteria are used to place students in the professional or pre-professional programs. Students who do not meet the minimum requirements for admission to a professional program may be admitted to the pre-professional program. The purpose of the pre-professional program is to permit students who are not qualified for entry into a professional program the opportunity to enroll in a restricted set of courses which are included in professional programs. Permission to transfer to a professional program will be granted to students who successfully complete this set of courses in accordance with the rules governing such matriculation as described below.

Freshman Criteria: All freshmen with a 3.5 or above high school g.p.a., and either an ACT score of 26 or above or an SAT score of 1200 or above, are admitted to a professional engineering program.

Freshmen with a high school g.p.a. of 2.75 or above but less than 3.5 are admitted to the pre-professional program.

Freshmen with a g.p.a. of 2.0 or above but less than 2.75, and with an ACT score of 21 or above or an SAT score of 850 or above, are admitted to the pre-professional program.

Transfer Student Criteria: Transfer students who have completed fifty semester credit hours or more of college-level studies, with a cumulative g.p.a. of 3.0 or above, and who have completed the calculus (MAT 2010, 2020, 2030 and 2150), chemistry (CHM 1225 and 1230), and physics (PHY 2170 and 2180) sequences with a g.p.a. of 3.0 or better and no grade lower than a ‘C’ will be admitted to a professional engineering program.

Transfer students who do not meet the above requirements but who have completed a minimum of twelve semester credit hours of college-level studies with a g.p.a. of 2.0 or better, and have completed the equivalent of MAT 1800 with a grade of ‘C’ or better will be admitted to the pre-professional program.

Matriculation

Entering Freshmen: Upon the receipt of notification of admission by the University Admissions Office, entering freshmen should contact the Office of the Assistant Dean for Student Affairs should questions arise regarding their obligations and activities prior to the beginning of classes for the semester in which they propose to enter the program.

An inspection of the various engineering curricula will reveal that the first two years in all of the programs are quite similar, thus affording students some opportunity to postpone commitment to a specific degree program without subsequent loss of credit, although variations do begin to appear in the sophomore year. In general, entering freshmen are encouraged to register in one of the degree granting departments. However, if undecided as to a particular curriculum, the student may register as an ‘undecided student’. If the undecided status is elected, the student is monitored by the Assistant Dean and encouraged to pursue career counseling during the freshman year. When a decision is reached, the student is assigned to the appropriate department. Students are strongly encouraged to reach a decision prior to the completion of the freshman year. The planning of a program of studies is carried out in conference with a departmental adviser. Students are encouraged to meet with their adviser whenever there may be a need to do so. This contact should be sought at least once each term for registration purposes.

During the freshman and sophomore years, the student acquires a firm foundation in the basic sciences, mathematics, and the engineering sciences. Throughout the entire program, a continuing general education in the social science and humanities areas is included.
Students must qualify in mathematics, chemistry and English to begin their programs of study as specified in the various curricula (see Qualifying examinations below).

On occasion, students may find it convenient or necessary to strengthen their background in English, chemistry, and mathematics through the election of courses which do not count toward the engineering degree. Students should consult their departmental adviser for guidance in this matter.

Transfer Students: For the student who has attended another institution and who has been found admissible to the Division of Engineering, the amount of advanced standing will be determined by the College and will depend upon the quantity and quality of the degree work completed prior to enrollment in this institution. Whether all, or only part, of such transferred credit may be applied toward a degree at Wayne State will depend on the requirements of the curriculum chosen. No grade below a ‘C’ in technical courses may be transferred into the College. The student should consult the department chairperson or the Associate Dean on this matter.

An engineering transfer program to be taken at a community college acceptable to each of the engineering colleges in Michigan has been prepared by the Engineering College — Community College Liaison Committee. A brochure describing this transfer program is available from any community college or from the Office of the Dean of any of the engineering colleges. Further, course equivalency tables are available at most southeastern Michigan community colleges.

Any request for reconsideration of the evaluation of transfer credits accepted by the College of Engineering should be made in writing within one year of the date of the student’s first enrollment in the College of Engineering, or within one year of the date of the evaluation if the latter is made subsequent to the student’s enrollment in the College of Engineering.

Transfer of Credit after Matriculation: After enrolling in Wayne State University, all technical courses and prerequisites to technical courses must be taken at the University. Other selected courses may qualify for transfer credit; advance approval via a Michigan Uniform Guest Permit is required. Consult the adviser for specific departmental rules for transfer of credit.

Transfer of College within the University: A student in another college of Wayne State University who wishes to transfer to the College of Engineering makes application directly to the Division of Engineering. The transfer form is available in the Dean’s office. This application for transfer should be made as soon as the student decides to work toward an engineering degree and as soon as all admission requirements are met, since delay may cause serious prerequisite problems and loss of credit.

Pre-Professional Program: Students enrolled in a pre-professional engineering program must maintain a minimum g.p.a. of 2.3 in the pre-professional program courses and earn a minimum grade of ‘C-’ minus in each of the courses. Specific departments may include additional courses designated as pre-professional. Students should meet with an academic adviser to obtain the list of applicable pre-professional requirements. Students who do not satisfy these pre-professional requirements will become ineligible to enter the professional program and are prohibited from enrolling in professional level courses. Students will be required to repeat courses, in compliance with Division rules, to demonstrate greater academic mastery and thereby elevate their g.p.a. Courses will be identified by the departmental academic adviser, with the approval of the Associate Dean of Academic Affairs, and must be taken at Wayne State University. Students who earn transfer credit for some of the above courses must complete a minimum of sixteen credits before applying for transfer to a professional program.

Students enrolled in the pre-professional program who fail to meet the 2.3 g.p.a. requirement after completion of the pre-professional requirements will be required to meet with the Associate Dean and the academic adviser to develop a Plan of Work. Such students may be required to repeat certain courses and/or may be required to complete additional courses which may NOT count for credit toward an engineering degree. These additional requirements are designed to improve the student’s mathematics, science, engineering science, and English abilities. If, after completion of the agreed-upon Plan of Work, the student’s cumulative grade point average has not increased to at least 2.3, his/her record will be subject to review by the Academic Standards Committee for continuance in the College of Engineering.

Students enrolled in the pre-professional program are not permitted to enroll in any engineering courses except those included on a list specifically identified for pre-professional students. Students must complete the pre-professional program before enrolling in any professional program courses.

Qualifying Examinations

All entering freshmen must take the qualifying examinations in mathematics, chemistry and English. Transfer students must take the English qualifying examination and if they do not have transfer credit to the College of Engineering in mathematics and chemistry, they are required to take qualifying examinations in mathematics and chemistry. Consult the Schedule of Classes for information regarding the schedule for the examinations or contact the Testing, Evaluation, and Student Life Research Services Office, 698 Student Center; 577-3400.

— Chemistry

The sequence of chemistry courses for the engineering student normally begins with Chemistry 1225 and 1230. Qualification for Chemistry 1225 and 1230 requires a satisfactory score on the Chemistry Qualification Examination. If a student is not properly prepared to consider placement in Chemistry 1225 and 1230, direct entry into Chemistry 1040 is permissible.

— English

All entering freshmen and transfer students shall determine their aptitude in English composition by taking the English Placement Examination. Students whose score on the English Placement Examination indicates need for additional instruction and practice in writing must elect and pass English 1010 before they can enroll in English 1020. This examination is not a replacement for the English Composition Proficiency Examination (see page 132).

— Mathematics

The sequence of mathematics courses for the engineering student normally begins with Mathematics 1090. For admission to Mathematics 1090, a qualifying examination must be passed. Failure to qualify for Mathematics 1090 may result in the student being placed in a lower level course such as Mathematics 0993, 0995/1050 or 1800, depending upon the student’s performance. Engineering students who qualify at the 0995/1050 level are encouraged to take MAT 1050 instead of MAT 0995. Students may apply to take the Qualifying examination in either Mathematics 1800 or 2010 depending upon their preparation in mathematics. The Mathematics 1800 Qualifying Examination is based upon one and one-half units of high school algebra and one unit of high school geometry. The Mathematics 2010 Qualifying Examination is based upon a total of three and one-half to four units of college preparatory mathematics covering algebra, plane and solid geometry and trigonometry. Engineering students who do not take the Mathematics Qualifying Examination prior to registration for the first semester of the freshman year must enroll in MAT 0993.

Degree Requirements

The normal program of study for each of the degrees awarded in the Division of Engineering requires from 130 to 136 credits. Of the total
credits for the degree, at least the last thirty-four credits must be completed as resident credits in the degree program of the College. Departments may impose additional requirements.

Although the curriculum plans shown in the departmental sections indicate a four-year program, many students will require additional time to complete all degree requirements. The national average time required for students to complete an engineering degree is approximately 4.5 years. Since Wayne State University students frequently pursue degrees on a part-time basis, many require much more than 4.5 years to complete all degree requirements. The actual amount of time required will depend upon the student’s ability and the amount of time available for academic activities. Students who do not follow the sequence as outlined by their department must make sure that all course prerequisites are satisfied.

Completion of the degree requirements in four years requires the election of an average of seventeen credits each term during the academic year. A student who elects the Cooperative Education Program may require five years. Students may attend the University on either a full-time or part-time basis (twelve credits are considered by the University as a minimum full-time load). The maximum load that a student carries should be consistent with the student’s ability and available time. However, since a credit hour (credit) is defined as one class hour requiring about two hours of preparation per week carried through a semester, the fifteen to twenty-one credit programs shown in the curricular plans represent a full forty-hour academic work week. A three-hour laboratory period is generally regarded as the equivalent of one credit. Students who wish to graduate in four calendar years but who wish to schedule sixteen or fewer credits per semester may accomplish this by deferring certain courses until the spring or summer term. Recommendations on which courses to defer are designated by a footnote in the curricular plans shown in the departmental sections. Specific requirements for these degrees may be found in the departmental sections for this College. These requirements are in effect as of the publication date of this Bulletin; however, students should consult an academic adviser for verification of current requirements. The following general discussion concerns generic aspects common to all Bachelor of Science engineering programs.

— General Education Requirements

All students must satisfy the General Education Requirements of the University, as described on page 23. In many cases the College prescribes a more limited set of alternatives than permitted by the University. Students are cautioned to observe College restrictions when selecting courses to satisfy General Education Requirements.

Type: College Requirement

AI: Any AI course (Only 3 credits count towards degree requirement)
BC: ENG 1020 or 1050
CL: B E 1010; or competency exam (See program requirements)
CT: Competency exam (Or pass PHI 1050)
EP: Competency Exam (Or pass ENG 1080)
FC: ANT 3150; or intermediate foreign language (FC) course
HS: Any HS course
IC: ENG 3050
LS: BIO 1510 for all programs except CHE; BIO 2200 for CHE
MC: Competency exam (for students required to take MAT 0993)
OC: ENG 3060
PL: PHI 1100
PS: CHM 1225/1230 (and lab) (also meets lab sci. and ABET sci. reqts.)
SS: ECO 2100; or ECO 2020
VP: Any VP course
WI: Program-specific capstone course (See program requirements)

— Critical Thinking Requirement

All undergraduates must satisfy the General Education Critical Thinking requirement. Engineering students are encouraged to satisfy this requirement by taking the Critical Thinking Examination. Students who fail this examination are required to pass PHI 1050; however, credit earned by successful completion of this course will not count toward the total credits required for an engineering degree.

— Mathematics Requirement

Engineering students use mathematics as a tool in all engineering and science courses in their college curricula, as well as later upon entry into the engineering profession. All prospective engineering students are encouraged to complete the number of units of mathematics stipulated in the section entitled Recommended High School Preparation, page 129. Ideally, engineering students elect the first course in calculus in their first freshman term; however, many incoming students are not prepared to begin the mathematics program with calculus and additional remedial coursework is necessary to strengthen the student’s background. All students entering the Division of Engineering with no transfer credit in calculus must take the Mathematics Qualifying Examination. For further details, see above.

— Basic Science Requirement

All undergraduate engineering students are required to complete at least sixteen credits (four courses) of basic science courses, including Chemistry 1225 and 1230, Physics 2170 and 2180. These courses are required in all of the engineering curricula, and it should be noted that certain curricula require the completion of prescribed science laboratories and/or additional chemistry and physics courses.

In addition, each student must elect a basic or advanced science course. Students should consult with their adviser for the current list of acceptable courses. Certain courses will satisfy this requirement as well as the Life Science requirement described below.

— Life Science Requirement

All undergraduate students are required to satisfy the General Education Life Science Requirement. Students who wish to satisfy this requirement simultaneously with the basic or advanced science requirement described above must take either BIO 1510 or BIO 2200. Students may satisfy the Life Science requirement with any LS-designated course, if they elect an additional basic or advanced science course as described above.

— Humanities and Social Science Requirement

Engineering today extends far beyond technical decisions. Far-reaching effects of man-made technology require the engineer to be aware of and sensitive to his/her social responsibilities. Studies involving the engineer in sociological, economic and aesthetic judgment are incorporated in the engineering program in order to insure an understanding beyond technical problems which will enable the complete engineer to make value judgments concerning the impact of this technology upon society.

The College has, therefore, included a program in the social sciences and the humanities as a part of all engineering curricula. This program is integrated with the non-science portion of the University’s General Education Program, which requires a student to elect one course from each of six categories. See page 23 for a complete description of the General Education Requirements. The Engineering Division imposes requirements in addition to the University-wide restrictions on courses which satisfy General Education Requirements. These restrictions are shown in the degree requirements for each engineering program.
— English and Mathematics Proficiency

See the General Education Requirements (page 23) regarding these University proficiency and competency requirements.

English Proficiency Requirement: Students who have had their entire college experience at Wayne State University must take the English Proficiency Examination after they have completed forty-five credits and before they have completed sixty credits. Transfer students who have transferred sixty or more credits must complete the examination during their first semester at this university. In the event that the student does not pass this examination, immediately following failure in the examination, English 1080 must be elected and completed with a satisfactory grade. Students planning to take the English Proficiency Examination in Composition will find the examination schedule in the Schedule of Classes under the section for the English Language and Literature Department of the College of Liberal Arts. Students taking the English Proficiency Examination must apply to Testing and Evaluation, and Student Life Research Services.

Communication Skills: In addition to the basic composition course ENG 1020, six credits in communication skills are required of all students. The courses, English 3050 and 3060, entitled Technical Communication I and II, respectively, are to be elected.

Mathematics Proficiency: Prior to completion of thirty credits, all students must demonstrate competence in mathematics by: (a) passing the Mathematics Proficiency Examination; or (b) achieving an acceptable test score on the quantitative section of the AP-CEEP or CLEP test; or (c) transferring credit for MAT 1800 or MAT 2010.

Entering freshmen must immediately take the Mathematics Proficiency Examination if they have not received advanced credit via the AP-CEEP or CLEP test.

Students who are placed above MAT 0993 in their qualifying examination do not need to take the Mathematics Competency Exam.

Technical Electives

Technical electives may be chosen from the course offerings of the College of Engineering and the advanced science and mathematics courses of the College of Science. Other courses, such as advanced courses in the School of Business Administration, may be elected with the prior approval of the academic adviser. The purpose of the technical elective is to increase the depth or breadth of one’s professional knowledge. Courses should be selected so as to meet this objective. Engineering courses elected as technical electives are normally selected at the 5000 level. These courses are open to both undergraduate and graduate students.

Cooperative Education Program

Students who wish to enrich their education with on-the-job engineering experience may enroll in the Cooperative Education Program. In this program, full-time study terms are alternated with full-time work assignments in cooperating industries. The program may be entered at the beginning of the junior year. Special cooperative programs are available on a limited basis providing special arrangements in the definition of the work-study period. For further information, consult the Co-op Coordinator at the Career Planning and Placement Office.

Most of the work assignments are in the Metropolitan Detroit area on a commuting basis; however, job opportunities are available in other cities and states. The Co-op program is available in all undergraduate engineering curricula.

Each Co-op student may enroll for one academic course while on work assignment. This must be done with the approval of the student’s adviser. Following each work assignment, the student may elect to enroll in Basic Engineering 3510 or Chemical Engineering 3510 for one credit. Election of the course requires the completion of a report on the work experience to the department adviser and to the Co-op Coordinator. This credit for work will not be counted toward graduation unless permission is specifically recommended by the department chairperson. Students are automatically enrolled for a zero credit course each term that they are on a co-op assignment to insure that the experience appears on their transcript.

A brief evaluation report covering each work assignment is to be submitted to the Co-op Coordinator, whether there has been enrollment in the above one credit courses or not. The student’s performance on the job is rated by his/her industrial supervisor. Salaries and other benefits are paid for the time spent on each work assignment. For details and enrollment procedures, contact the Co-op Coordinator in the Career Planning and Placement Office.
ACADEMIC REGULATIONS

For complete information regarding academic rules and regulations of the University, students should consult the General Information section of this Bulletin, beginning on page 5. The following additions and amendments pertain to the Division of Engineering within the College of Engineering.

Registration

All Division of Engineering undergraduate students must secure an Engineering adviser’s signature approving the program request before pursuing registration for courses. (See page 39 for information relating to registration.) Special attention should be paid to course prerequisites, and departmental grade requirements in prerequisites. Students may be removed from courses entered without satisfying these requirements. Students may also be required to repeat courses for which they have not completed the necessary prerequisites, following fulfillment of those prerequisites (even though a grade of ‘C’ or above has been earned in the course).

Some courses may be offered only once a year; others may have multiple sections running every semester. The University Schedule of Classes, published prior to each semester, shows when and where the classes will meet and outlines registration procedures and times.

Attendance

Regularity in attendance is necessary for success in college work. Excessive unexcused absences may result in withdrawing a student from a class. The student should arrange with the course instructor in advance for all predictable absences. Absences due to illness or conditions beyond the student’s control should be reported upon the student’s return to class.

Dean’s List of Honor Students

A student who achieves a term grade point average of 3.5 or more, based on a program of twelve credits or more, is cited by the Dean for distinguished scholarship and is included on the Dean’s List of Honor Students.

‘AGRADE’ — Accelerated Graduate Enrollment

The College of Engineering enables academically superior undergraduate seniors to enroll simultaneously in undergraduate and graduate programs and apply a maximum of sixteen credits toward both an undergraduate and graduate degree in the student’s major field. Students who elect the ‘AGRADE’ Program may expect to complete the bachelor’s and master’s degrees in five years of full-time study.

To be eligible applicants must have completed 100 credits in course work and have an overall grade point average of at least 3.4 in engineering, and not less than a 3.6 g.p.a. in their department of specialization, as computed by the rules of the Division of Engineering. See the departmental adviser for further details.

Conduct

Each student is subject to official regulations governing student activities and student behavior. Furthermore, it is the responsibility of each student to adhere to the principles of academic integrity. Academic integrity means that a student is honest with him/herself, fellow students, instructors, and the University in matters concerning his or her educational endeavors. Thus, a student should not falsely claim the work of another as one’s own, or misrepresent him/herself so that the measures of one’s academic performance do not reflect his/her own work or personal knowledge.

If there are reasonable grounds to believe that a student has disregarded the regulations or student responsibilities, he or she may be disciplined. Such discipline may include suspension or dismissal, but no dismissal will be directed without reasonable opportunity for an appropriate hearing.

Professional Program Eligibility

Students enrolled in a professional engineering program must maintain a g.p.a. of 2.3 or above, and must earn a grade of ‘C-minus’ or better in all course work included in the freshman and sophomore years of their program. Students who do not meet this requirement will be transferred to the pre-professional program. Such students are eligible to return to a professional program under the conditions described above under ‘Pre-Professional Program.’ Students admitted to a professional program prior to the Winter 1994 semester must maintain an overall as well as departmental g.p.a. (as calculated by Division of Engineering rules) of at least 2.0 to retain their professional program status.

Probation

A student is considered to be on probation whenever his/her cumulative grade point average, or his/her grade point average in the department of specialization, falls below 2.0. A student may also be placed on probation whenever his/her academic performance is deemed unsatisfactory. When placed on probation, the student is required to meet with the Assistant Dean or Associate Dean to remove the academic hold on his/her registration. While on probation, a student may not represent the College of Engineering in student activities.

A student on probation is expected to remove the grade point deficiency promptly. (Grade point deficiency is obtained by subtracting the total number of grade points from twice the total number of credits in the grade point base. It is the number of grade points by which the student fails to achieve a 2.0 grade point average.) If, at the end of the first semester on probation, the student’s cumulative grade point average has not increased to at least 2.0, he/she will be excluded from the College. For part-time students, a semester will be considered to consist of twelve consecutive credit hours. If the student’s cumulative g.p.a. reaches at least 2.0 by the end of the first semester after being placed on probation, he/she will be returned to regular status. Multiple occurrences of probation will result in the student’s exclusion from the College.

A student may be refused the privilege of registering in the Division of Engineering if, at any time, his/her grade point deficiency exceeds sixteen points. A student may also be refused the privilege of registering in the Division for irresponsible attendance and performance in class, regardless of any probationary status.

Following exclusion from the Division the privilege of registering in the Division will ordinarily be withheld for at least one calendar year. Class work taken at any institution during the period of exclusion may not be considered for transfer toward an engineering degree of this Division.

A student who has been refused the privilege of registering in the Division may request a re-consideration of his/her status by the Academic Standards Committee (ASC). He/she should not make the request, however, unless he/she can provide evidence of extenuating circumstances. A formal written request for reconsideration must be presented to the Associate Dean for Academic Affairs.

Division of Engineering Rules for Calculating Grade Point Average

The Division of Engineering computes Departmental and Program grade point averages using rules which differ from those used to compute the cumulative grade point average on the official University transcript. When a course is repeated, the new grade will replace the previous grade unless the student exceeds the maximum number of
repeats; the maximum number is one repeat for each thirty-four credits completed at Wayne State University. After the maximum number of repeats is exceeded, both grades are used in computing the student’s grade point average.

**Substandard Performance**

If a grade below ‘C-minus’ is received in any course which is prerequisite to another engineering course or in a required course in mathematics, biology, physics or chemistry, the student will be required to repeat that course before the next course in the sequence is taken. Students may be required to repeat courses or may be administratively withdrawn from courses when they have not satisfied course prerequisites.

Any course which has been completed for audit may not be subsequently enrolled in for credit nor may credit be obtained by special examination.

No course taken to satisfy an engineering program requirement may be elected on a Passed-Not Passed (‘P’-'N’) basis.

A course in which a grade below ‘C-minus’ has been earned may not be subsequently passed by Special Examination.

**Repeating Courses:** Courses in which a grade lower than a ‘C-minus’ is earned must be repeated no later than the next regular (i.e., fall or winter) semester in which the course is offered. Exceptions to this rule must be approved by the Department and the Dean’s Office.

When repeating a course, failure for the third time to pass it with at least a ‘C-minus’ grade constitutes grounds for refusing a student further registration in the Division of Engineering.

An engineering student who repeats a required course in which he/she received a grade lower than a ‘C-minus’ must repeat that course at Wayne State University unless prior written approval is secured from his/her department chairperson and the Associate Dean to take the course at a designated institution.

Students are directed to page 38 for University policies related to repeating courses and credit by special examination. See also ‘Division Rules for Calculating Grade Point Average,’ above.

**Withdrawal From Courses**

General rules governing withdrawal from courses and changes of program can be found on page 39. Special note should be taken of the fact that the College of Engineering policy on withdrawal from a course or courses is not to grant permission to withdraw after Friday of the fifth week of classes, nor add a course after the fourth week. Exceptions must have the approval of the instructor, followed by the approval of the Associate Dean for Academic Affairs.

**Graduation**

At graduation the University requires a minimum 2.0 grade point average in the total residence credit. Additionally, the Division of Engineering requires a minimum 2.0 grade point average in the total work taken in the department of specialization. The student’s total as well as departmental grade point average is calculated using the Division of Engineering rules described above.

Graduates with a minimum of sixty credits in residence at Wayne State University and a grade point average of at least 3.0 may qualify for a special diploma under the following conditions:

- **Summa Cum Laude:** Student must have a grade point average in the top five per cent of the College of Engineering graduating class.
- **Magna Cum Laude:** Student must have a grade point average in the five per cent of the graduating class subsequent to summa cum laude students.
- **Cum Laude:** Student must have a grade point average in the ten per cent of the graduating class subsequent to magna cum laude students.

**Commencement:** Each year, commencement exercises are held in December for summer and fall semester graduates and in May for winter semester graduates.

**Guests**

A student attending another engineering college who wishes to take course work at Wayne State for the purpose of credit transfer to the home institution may be admitted as a guest student for one term. This is done by applying through the University Office of Admissions using either the Application for Undergraduate Admission or the Graduate Guest Application. These applications require certification by an official of the home institution. For information on guest admission and visiting doctoral guests, see the Wayne State University Graduate Bulletin.

The Michigan Conference of Engineering Deans has entered into an agreement endorsing the exchange of guest privileges between ABET-accredited engineering curricula in Michigan. For further information call the Engineering Dean’s Office; 577-3040.

**Second Degree**

An engineering student, who after receiving one Bachelor of Science degree at Wayne State University, wishes to obtain a second bachelor’s degree must complete at least thirty credits beyond those applied toward the first degree and must also satisfy all departmental and College course requirements. Second degree students must meet College of Engineering - ABET General Education objectives; consult the academic adviser to review these requirements.

**Professional Registration**

An additional mark of engineering competence is the successful completion of examinations for professional registration. These examinations are given by each state. Upon being registered in a state, the engineer may legally provide engineering services to the public of that state. Many of the states have reciprocity agreements for transfer of registration. In Michigan, the State Board of Registration for Professional Engineers offers the registration examination in April and November of each year. Graduates at the bachelor’s degree level are qualified and urged to take Part I, Fundamentals of Engineering, of the examination immediately upon graduation or at the examination just preceding graduation. Application forms are available in the Dean’s office.

**BASIC ENGINEERING COURSES (B E)**

The following courses in basic engineering are of a general nature and are used by students in all of the Division of Engineering disciplines. For interpretation of numbering system, signs and abbreviations, see page 481.

**NOTE:** All 3000- and 4000-level courses are open only to Engineering students.

**1010 (CL) Introduction to Computers in Engineering. Cr. 3**

Prereq. or coreq: MAT 1800. Engineering computer systems hardware and software. Programming engineering computations using the language C, interfacing with FORTRAN and BASIC programs. Word processing, spreadsheet, statistical and graphics software. Introduction to the profession of engineering and the design process, professional ethics and social responsibility. (Y)

**1050 Freshman Engineering Orientation. Cr. 2**

Open only to freshman or transfer students. This course is designed to make students feel supported in their new environment, bolster their expectations and self-confidence, and develop the skills necessary for them to succeed in engineering. It familiarizes them with the history of engineering and engineering disciplines, and demonstrates the importance of team-building as an essential part of the engineering profession. (T)
1100 Introduction to Engineering. Cr. 3  
Coreq: MAT 1800 or higher; ENG 1020. Introduction to the profession of engineering; engineering analysis tools, engineering design concepts, teamwork skills. Material fee as indicated in the Schedule of Classes. (B)

1300 Science of Engineering Materials I. Cr. 3  
Prereq: CHM 1225 and 1230; PHY 2170 or 2175; B E 1010 or 1100. Introduction to the behavior and properties of metallic, ceramic, polymeric and composite materials. The relationship between the internal arrangement of atoms in materials and their observed mechanical, thermal, electrical and chemical behavior. Discussion sections include laboratory experiments, demonstrations, problem solving and review. Material fee as indicated in the Schedule of Classes. (T)

1310 Science of Engineering Materials I Lab. Cr. 1  
Coreq: B E 1300. Laboratory component of B E 1300. (T)

3040 Computational Methods in Engineering. Cr. 3  
Prereq: B E 1010 or 1100; coreq: MAT 2150. An introductory course in the application of digital computers and numerical techniques to the solution of engineering problems. Methods for solving linear and non-linear algebraic equations, estimating the accuracy of results, and numerical integration in more than one variable. Finite difference techniques for the solution of ordinary differential equations and extended to the mesh methods for solution of partial differential equations. Material fee as indicated in the Schedule of Classes. (T)

3220 Probability and Statistics in Engineering. Cr. 3  
Prereq: MAT 2020. An introduction to probability theory and statistics with emphasis on engineering data analysis and design methods which recognize the concept of variability. Applications to product reliability, process control and queueing systems. (T)

3500 Co-Op Record. Cr. 0 (IND: 0)  
Prereq: sophomore standing and consent of coordinator. Offered for S and U grades only. Engineering practice under supervision in cooperative education program. (T)

3510 Co-Op Experience. Cr. 1 (Max. 4) (IND: 1)  
Prereq: sophomore standing and consent of adviser. Offered for S and U grades only. Engineering practice under supervision in cooperative education program. Written report required. (T)

5900 National Design Competition Projects. Cr. 1-4  
Prereq: written consent of faculty adviser for the project. Primarily for engineering undergraduates who are dedicating a substantial amount of effort towards college-sponsored national design competition projects. (T)

CHEMICAL ENGINEERING and MATERIALS SCIENCE

Office: 1100 W. Engineering Building; 577-3800  
Interim Chairperson: C.W. Manke  
Website: http://www.eng.wayne.edu/chem

Professors  
E. Gulari, Y. Huang, R.H. Kummer, C.W. Manke, S. Ng, S.K. Putatunda, E. W. Rothe

Associate Professors  
H.W.T. Matthew, G. Z. Mao, H. McMicking (Emeritus), S.O. Salley, G. Shreve, P. Van Tassel

Assistant Professors  
S. da Rocha, R. Kannan, J. Potoff

Degree Programs

BACHELOR OF SCIENCE in Chemical Engineering

*GRADUATE CERTIFICATE in Hazardous Materials Management on Public Lands
*GRADUATE CERTIFICATE in Environmental Auditing
*CERTIFICATE in Hazardous Waste Control
*CERTIFICATE in Polymer Engineering
*MASTER OF SCIENCE in Chemical Engineering
*MASTER OF SCIENCE in Materials Science and Engineering
*MASTER OF SCIENCE in Hazardous Waste Management
*DOCTOR OF PHILOSOPHY with a major in chemical engineering
*DOCTOR OF PHILOSOPHY with a major in materials science and engineering

Chemical Engineering

The field of the chemical engineer embraces those industries in which matter is treated to effect a change of state, energy content, or composition; and in these industries the chemical engineer may be concerned with either the processes or the process equipment used for them. The chemical engineer may enter the fields of petroleum processing, pharmaceuticals, food processing, natural and synthetic rubbers and plastics, electronic materials, surface coatings, atomic energy processing, environmental control and biotechnology.

The undergraduate program in chemical engineering includes a thorough study of chemistry, mathematics, and physics, as well as an understanding of physical, biological and chemical operations and processes. Engineering courses cover material and energy balances, transport phenomena, reaction kinetics, and process and equipment design. In addition, electives may be chosen from topics such as polymers, biochemical engineering, pollution control, material science, and other special topics.

* For specific requirements, see the Wayne State University Graduate Bulletin.
The breadth of this program permits graduates to enter the chemical industries with confidence, and their abilities will find almost immediate use. Chemical engineers may enter the division of production and advance toward plant or production management positions, or they may find their training useful in design, development, or research departments. In the latter cases additional formal education at the graduate level may be desirable. Chemical engineers with master’s or doctor’s degrees constitute a large percentage of those employed in research and development work.

In addition to the Undergraduate Program Goals listed on page 129, the specific objectives of the chemical engineering B.S. program are:

1) To offer a sound chemical engineering curriculum of required courses in material and energy balances applied to chemical processes; thermodynamics of physical and chemical equilibria; heat, mass and momentum transfer; chemical reaction engineering; separation operations; process dynamics and control; process integration and design; and appropriate modern experimental and computing techniques.

2) To incorporate a strong design experience throughout the curriculum that includes identification, formulation and solution of open-ended problems, scale-up concepts, use of iterative approaches, consideration of safety and environmental issues, and understanding of economic factors.

3) To provide laboratory experiences relevant to chemical engineering principles, covering design of experiments, the analysis and interpretation of data, and the presentation of results.

4) To offer electives that extend the basic chemical engineering principles into advanced and multidisciplinary applications related to current chemical engineering practice.

5) To develop awareness in staying current with the changing chemical engineering profession through lifelong learning and continuing professional development, and to provide guidance in career planning and interviewing through two required seminar series.

6) To assist in the preparation of students for engineering practice through co-op and internship programs.

7) To encourage involvement of undergraduates in research so that they can experience advanced and independent study environments.

Bachelor of Science in Chemical Engineering

Admission Requirements: see page 129.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Science degree must complete 131 credits in course work, including satisfaction of the University General Education Requirements (see page 23), as outlined in the following curriculum. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 129. Non-engineering entries, cited below by subject rather than individual course number, indicate courses to be selected in fulfillment of the University General Education Requirements. Degree requirements shown in the curricula below are in effect as of the publication date of this Bulletin. Students should consult their advisers for verification of current requirements.

Substitutions: In the curriculum below: ECO 2020 may be substituted for P S 1030; and any foreign language (FC) course until the spring or summer term.

First Semester

CHEM 1250 -- General/Organic Chemistry Lab: Cr. 1
PHYS 2175 -- (PS) General Physics: Cr. 4
CHEM 2250 -- Organic Chemistry: Cr. 3
PHILOS 1100 -- (PL) Contemporary Moral Issues: Cr. 3
Total credits: 17

Second Semester

CHEM 5110 -- Principles of General/General Chemistry: Cr. 4
CHEM 5120 -- General/General Chemistry Lab: Cr. 1
PHYS 2176 -- (PS) General Physics: Cr. 4
CHEM 2260 -- Organic Chemistry: Cr. 3
PHILOS 1100 -- (PL) Contemporary Moral Issues: Cr. 3
Total credits: 17

Sophomore Year

First Semester

MAT 2010 -- Calculus I: Cr. 4
CHEM 1225 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 3
CHEM 1230 -- Chemical Principles in the Laboratory: Cr. 1
Total credits: 17

Second Semester

CHEM 1225 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 3
CHEM 1230 -- Chemical Principles in the Laboratory: Cr. 1
Total credits: 17

Junior Year

First Semester

CHE 3200 -- Chemical Process Engineering I: Fluid Flow & Heat Trans.: Cr. 4
CHE 3300 -- Thermodynamics: Chemical Equilibria: Cr. 4
CHEM 5440 -- Physical Chemistry II: Cr. 4
CHEM 2280 -- Chemical/Analytical Principles: Cr. 3
ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
Any (HS) course: Cr. 3
Total credits: 18

Second Semester

CHEM 3200 -- Chemical Process Engineering I: Fluid Flow & Heat Trans.: Cr. 4
CHEM 3300 -- Thermodynamics: Chemical Equilibria: Cr. 4
CHEM 5440 -- Physical Chemistry II: Cr. 4
CHEM 2280 -- Chemical/Analytical Principles: Cr. 3
CHE 3400 -- Kinetics and Reactor Design: Cr. 3
CHEM 2800 -- Material and Energy Balances: Cr. 4
CHEM 2820 -- Chemical Process Engineering II: Mass Transfer: Cr. 4
CHEM 5440 -- Physical Chemistry II: Cr. 4
CHEM 2280 -- Chemical/Analytical Principles: Cr. 3
CHE 3400 -- Kinetics and Reactor Design: Cr. 3
CHEM 2800 -- Material and Energy Balances: Cr. 4
Total credits: 15

Senior Year

First Semester

CHEM 3200 -- Chemical Process Engineering I: Fluid Flow & Heat Trans.: Cr. 4
CHEM 3300 -- Thermodynamics: Chemical Equilibria: Cr. 4
CHEM 5440 -- Physical Chemistry II: Cr. 4
CHEM 2280 -- Chemical/Analytical Principles: Cr. 3
CHEM 2800 -- Material and Energy Balances: Cr. 4
Total credits: 15

Second Semester

CHEM 3200 -- Chemical Process Engineering I: Fluid Flow & Heat Trans.: Cr. 4
CHEM 3300 -- Thermodynamics: Chemical Equilibria: Cr. 4
CHEM 5440 -- Physical Chemistry II: Cr. 4
CHEM 2280 -- Chemical/Analytical Principles: Cr. 3
CHEM 2800 -- Material and Energy Balances: Cr. 4
Total credits: 15

ENG 1020 -- (BC) Introductory College Writing: Cr. 4
B E 1100 -- Introduction to Engineering: Cr. 3
Total credits: 16

Second Semester

MAT 2020 -- Calculus II: Cr. 4
CHEM 1225 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 3
CHEM 1230 -- Chemical Principles in the Laboratory: Cr. 1
CHEM 2260 -- Organic Chemistry: Cr. 3
Total credits: 17

Sophomore Year

First Semester

MAT 2030 -- Calculus III: Cr. 4
CHEM 2220 -- Organic Chemistry: Cr. 3
PHILOS 1100 -- (PL) Contemporary Moral Issues: Cr. 3
Total credits: 17

Second Semester

MAT 2150 -- Differential Equations and Matrix Algebra: Cr. 4
CHEM 2200 -- Chemical/Analytical Principles: Cr. 3
ECO 2010 -- (SS) Principles of Microeconomics: Cr. 3
English Proficiency Exam: Cr. 0
Critical Thinking (CT) Exam: Cr. 0
Total credits: 17

Junior Year

First Semester

CHEM 3200 -- Chemical Process Engineering I: Fluid Flow & Heat Trans.: Cr. 4
CHEM 3300 -- Thermodynamics: Chemical Equilibria: Cr. 4
Any (HS) course: Cr. 3
Total credits: 18

Second Semester

CHEM 3220 -- Measurements Laboratory: Cr. 2
CHEM 3400 -- Kinetics and Reactor Design: Cr. 3
CHEM 3800 -- Chemical Process Engineering II: Mass Transfer: Cr. 4
P S 1030 -- (AI) The American Governmental System: Cr. 3
CHEM 3400 -- Kinetics and Reactor Design: Cr. 3
Total credits: 15

Senior Year

First Semester

CHEM 3200 -- Chemical Process Engineering I: Fluid Flow & Heat Trans.: Cr. 4
CHEM 3300 -- Thermodynamics: Chemical Equilibria: Cr. 4
CHEM 3400 -- Kinetics and Reactor Design: Cr. 3
CHEM 3800 -- Chemical Process Engineering II: Mass Transfer: Cr. 4
P S 1030 -- (AI) The American Governmental System: Cr. 3
Total credits: 15

Second Semester

CHEM 3220 -- Measurements Laboratory: Cr. 2
CHEM 3400 -- Kinetics and Reactor Design: Cr. 3
CHEM 3800 -- Chemical Process Engineering II: Mass Transfer: Cr. 4
P S 1030 -- (AI) The American Governmental System: Cr. 3
Total credits: 15

1. Students who wish to carry sixteen or fewer credits per semester may defer this course until the spring or summer term.
UNDENGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

NOTE: All 3000- and 4000-level courses are open only to Engineering students.

CHEMICAL ENGINEERING (CHE)

2800 Material and Energy Balances. Cr. 4
Prereq: PHY 2170 or 2175; MAT 2020 and CHM 1240. Material balances, stoichiometry and simultaneous mass energy balances. Material fee as indicated in the Schedule of Classes.

3200 Chemical Process Engineering I: Fluid Flow and Heat Transfer. Cr. 4
Prereq: MAT 2020; PHY 2170 or PHY 2175; CHE 2800. Transient and steady state transport of momentum and heat in engineering systems. Analytical and empirical methods. Practical aspects of transport of materials and heat. Piping and pumping systems, metering, heat exchange theory, equipment costs. Material fee as indicated in the Schedule of Classes.

3220 Measurements Laboratory. Cr. 2
Prereq: ENG 3050; B E 3040; CHE 3200; B E 3220. Laboratory course in the principles and practice of measuring chemical, physical and thermodynamic properties of importance to chemical engineering problems. Technical reports. Material fee as indicated in the Schedule of Classes.

3300 Thermodynamics: Chemical Equilibria. Cr. 4
Prereq: CHE 2800, MAT 2020. Qualitative and quantitative treatment of homogeneous and heterogeneous chemical reactions and chemical equilibria. Use of chemical activities and activity coefficients relating ideal to actual systems. Use of reference states and excess properties of the prediction of equilibrium diagrams and the determination of feasibility of chemical reactions. Material fee as indicated in the Schedule of Classes.

3400 Kinetics and Reactor Design. Cr. 3
Prereq: B E 3040, CHE 3300, MAT 2150. Quantitative treatment of complex homogeneous and heterogeneous chemical reactions and the design of batch, stirred and flow reactor systems. Material fee as indicated in the Schedule of Classes.

3510 Co-op Experience. Cr. 1 (Max. 4)
Offered for S and U grades only. Presentation of oral and written report to peer group describing Co-op experience. Attendance required at CHE and MSE seminar series for the semester.

3800 Chemical Process Engineering II: Mass Transfer. Cr. 4
Prereq: B E 3040; CHE 3200, 3300. Quantitative treatment of separation processes in which there is simultaneous heat and mass transfer. Material fee as indicated in the Schedule of Classes.

3820 Chemical Engineering Laboratory. Cr. 2
Prereq: CHE 3220, 3400, 3800; ENG 3060. Experimental study of chemical equilibria, reaction kinetics and rate processes. Laboratory case studies. Material fee as indicated in the Schedule of Classes.

4200 Chemical Process Engineering III: Economics and Design. Cr. 3
Prereq: CHE 3800 and 3400. The overall chemical process. Economic analysis of the process and the optimum-economic design of process.

4260 Chemical Engineering Seminar I. Cr. 0
Prereq: CHE 3400, 3800. Required for graduation. Offered for S and U grades only.

4560 Chemical Engineering Seminar Senior Research. Cr. 3-6
Prereq: consent of adviser. Research project.

4600 Process Dynamics and Simulation. Cr. 3
Prereq: CHE 3400, 3800. Application of system dynamics and mathematical modeling to design and analysis of chemical processing systems. Material fee as indicated in the Schedule of Classes.

4800 (WI) Chemical Process Integration. Cr. 3
Prereq: CHE 4200. Application of engineering and science background to the design of chemical processes. Comprehensive problems deal with sources of data, design principles and optimization techniques.

4860 Chemical Engineering Seminar II. Cr. 1
Prereq: CHE 4260. Required for graduation. Offered for S and U grades only.

4990 Directed Study. Cr. 1-9 (Max. 9)
Prereq: consent of adviser. Students select a field of chemical engineering for advanced study and instruction.

5050 Statistics and Design of Experiments. Cr. 3
Prereq: B E 3220, B E 3040; CHE 3800, 3400. Application of modern statistical experimental design methods to improve effectiveness and success in experimental projects, in chemical industry manufacturing, and research and design.

5100 (BME 5010) Engineering Physiology. (ECE 5100) (I E 5100) (M E 5100) Cr. 4
Prereq: senior standing. Basic principles of human physiology presented from the engineering perspective. Bodily functions, their regulation and control discussed in quantitative terms and illustrated by simple mathematical models where feasible.

5350 Polymer Science. (MSE 5350) Cr. 3

5360 Polymer Processing. (MSE 5360) Cr. 3
Prereq: CHE 3200 or equivalent undergraduate fluid mechanics. A detailed analysis of polymer processing. Rheology of polymers, flow in tubes, calendaring, extrusion, coating and injection molding. Material fee as indicated in the Schedule of Classes.

5530 Thermal Processing of Hazardous Waste. (HWM 5530) Cr. 2
Prereq: HWM 5510. Thermal processing technologies, such as combustion fundamentals, thermal incineration equipment and hardware, chemical reaction and recovery systems for hazardous waste control.

5600 (MSE 5600) Composite Materials. Cr. 3
Coreq: CHE 5350. Introductory course emphasizing a physical understanding of composites: fiber and polymer matrix properties, interfacial adhesion, manufacturing, elastic and strength properties of unidirectional and random laminae. Other topics include various performance properties and plastic design applications.
5630 Waste Treatment Technologies. (HWM 5630) Cr. 3
Prereq: CHE 3300, 3400, 3800. Characterization and analysis of waste components in gas emissions, liquid and solid streams, and suitability for treatment technologies vs. management and remediation of hazardous waste sites. (B,W)

5995 Special Topics in Chemical Engineering I. Cr. 1-4
Prereq: senior standing. Maximum of eight credits in Special Topics in any one degree program. A consideration of special subject matter in chemical engineering. Topics to be announced in Schedule of Classes. (T)

6040 Computational Methods in Engineering for Graduate Students. Cr. 4
Prereq: B E 1010, MAT 2150, graduate standing, written consent of adviser. No credit after CHE 3040. Introduction to methods for solving linear and nonlinear algebraic equations; estimating accuracy of results and numerical integration of ordinary differential equations; mesh methods for solution of partial differential equations. Course project required. (T)

6130 (NFS 6130) Food Preservation. Cr. 4
Prereq: senior standing. Basic food preservation methods and the underlying physical, chemical, bacteriological and organoleptic properties of foods to be preserved. Material fee as indicated in the Schedule of Classes. (W)

6520 Chemodynamics: Environmental Transport. (HWM 6520) Cr. 3
Prereq: CHE 3300, 3400, 3800. Application of chemical engineering fundamentals and transport phenomena to study the movement and fate of chemicals within the environment (air, water, soil). (S)

6570 Safety in the Chemical Process Industry. (HWM 6570) Cr. 3
Prereq: CHE 3400, 3800. Fundamental and practical experience necessary for safe operation of a chemical process plant. Actual industrial case studies conducted under industry supervision. (W)

6590 Bioremediation of Hazardous Waste. (HWM 6590) Cr. 3
Prereq: CHE 2800, B E 3040. The movement of pollutants through underground matrices by means of transport models. Analysis, identification, assessment and selection of remedial programs. Types of microorganisms, the food chain, oxygen supply and operating conditions will be described. (W)

6610 (HWM 6610) Risk Assessment. Cr. 3
Prereq: MAT 2030, B E 3220, and CHM 1240. Introduction to risk assessment in environmental hazard management with emphasis on the chemical industry, including hazard identification, exposure analysis and risk characterization. (F)

6810 (WI) Chemical Process Integration. Cr. 4
Prereq: CHE 4200 and enrollment in AGRADé program; written consent of adviser. Application of engineering and science background to the design of chemical processes. Comprehensive problems deal with sources of data, design principles and optimization techniques. (B)

6997 Optimization of Chemical Processes. Cr. 3
Prereq: CHE 4200. The application of optimization techniques in the design and operation of chemical processes. (W)

MATERIALS SCIENCE (MSE)

5010 Materials for Engineering. Cr. 4
Prereq: CHM 1225 and 1230, PHY 2180 or PHY 2185, B E 1300. Properties and applications of materials in design and manufacturing; emphasis on metals, ceramics, and polymers. Atomic arrangement, bonding, cell structure and microstructure. Mixing, blending, and alloying to meet needs of advanced technology. (F)

5180 (BME 5370) Introduction to Biomaterials. (M E 5180) Cr. 4
Prereq: B E 1300, BME 5010 or PSL 5550. Introduction to study of both biological materials (bone, muscle, etc.) and materials for medical applications. Topics include tissue properties and effects of pathology, biocompatibility, and design considerations. (Y)

5350 (CHE 5350) Polymer Science. Cr. 3
Prereq. or coreq: MAT 2150. Fundamental relationships between chemical structure and physical properties of high polymers. Basic structures, states, and transitions of polymers. Polymerization reactions and processes. Molecular weight, viscous flow and mechanical properties of polymers. (F)

5360 (CHE 5360) Polymer Processing. Cr. 3
Prereq: CHE 3200 or equivalent undergraduate fluid mechanics. A detailed analysis of polymer processing. Rheology of polymers, flow in tubes, calendaring, extrusion, coating and injection molding. Material fee as indicated in the Schedule of Classes. (W)

5380 (BME 5380) Biocompatibility. Cr. 4
Prereq: BME 5010 or PSL 5550. Wound healing and the tissue response to foreign materials. The organization activation, and mechanisms of the immune system. Bioactive materials and the molecular basis for surface recognition Y masking. Biocompatibility testing. (B)

5390 (BME 5390) Experimental Methods for Biomaterials. Cr. 4
Hands-on and demonstration exposure to laboratory techniques for the assessment of biological tissues and artificial biomaterials. Material fee as indicated in the Schedule of Classes. (W)

5400 Physical Metallurgy. Cr. 3
Prereq: MAT 2150. Microstructure property relationship, phase diagram, solidification of metals and alloys, iron carbon system, heat treatment of steel and iron, carbon alloys. (F)

5600 Composite Materials. (CHE 5600) Cr. 3
Coreq: MSE 5350. Introductory course emphasizing a physical understanding of composites: fiber and polymer matrix properties, interfacial adhesion, manufacturing, elastic and strength properties of unidirectional and random laminae. Other topics include various performance properties and plastic design applications. (F)

5650 Surface Science. Cr. 3
Prereq: B E 1300. An introduction to the science and technology of surface phenomena, including surface structure, surface energy, surface diffusion, crystal growth and selected applications of technological importance. (I)

5800 Processing of Powder Materials. Cr. 3
Basic analysis of the various processing steps involved in the manufacture of products from metal powders including powder manufacture, compaction and sintering of metal powders and the forming of powder metallurgy (P/M) preforms. Ceramics and metal powders, metal matrix composites, processed by techniques such as sol-gel, SHS. (B)

6500 Fatigue and Fracture of Metals. Cr. 3
A detailed examination of the ways in which engineering materials fail under both static and cyclic loading conditions. Emphasis is on the metallurgical aspects of failure and the underlying mechanisms of fracture and fatigue. (B)
**CIVIL and ENVIRONMENTAL ENGINEERING**

*For specific requirements, see the Wayne State University Graduate Bulletin.*

**Professors**


**Associate Professors**

T. M. Heidtke, T. Kagawa, N. Yesiller

**Assistant Professor**

H.C. Wu

**Adjunct Faculty**


**Degree Programs**

**BACHELOR OF SCIENCE in Civil Engineering**

**MASTER OF SCIENCE in Civil Engineering**

**DOCTOR OF PHILOSOPHY with a major in Civil Engineering**

Civil engineers apply the principles and techniques of engineering to the design and integration of complex systems. They have traditionally been leaders in many aspects of urban development and the urban crisis in America has brought into focus the profession of civil engineering and the responsibilities of its practitioners. The civil engineer is a leader in such diverse areas of concern as: the design and control of structural systems, including tall buildings, bridges and transportation systems necessary for urban development, commerce and industry; water resources planning and management; containment and treatment of hazardous wastes; design of collection and treatment systems for sanitary and storm sewage; water treatment and distribution systems; construction management; and the integration and management of public works projects designed to improve the urban infrastructure. Obviously, the responsibilities of the civil engineer directly involve the health, safety and welfare of the public.

The Civil and Environmental Engineering Department maintains laboratories for teaching and research in the areas of: structures/materials, transportation, hydraulics, geotechnical, geoenvironmental, infrastructure systems, and environmental engineering. Laboratories include facilities for testing structural components under static and dynamic loads; strain measurement; traffic simulation; and fluid flow. The Department and the University maintain excellent computer facilities for data acquisition and analysis, including several advanced software packages specific to civil engineering.

**Bachelor of Science in Civil Engineering**

**Mission Statement:** The mission of the Civil and Environmental Engineering Department is to provide high-quality, state-of-the-art educational and research programs in relevant professional disciplines with an appropriate balance between undergraduate and graduate programs. The Department strives for excellence in its academic programs, its research endeavors, and its university, community and professional service activities. The program is designed to prepare our students for success in their immediate as well as long-term professional careers as practitioners, for obtaining a professional engineering license, and for pursuing advanced studies and lifelong learning.

**Program Educational Objectives:**

1. To produce civil engineering graduates who have:
   a. a strong grounding in mathematics, basic sciences, engineering sciences, and design principles and methodologies, and the ability to apply this knowledge to identify, formulate, and solve complex engineering problems.
   b. the knowledge of designing and conducting experiments in a variety of disciplines relevant to the profession, and the knowledge of analyzing, interpreting, and presenting experimental data.
   c. the ability to effectively communicate technical and professional information in written, oral, and graphic form.
   d. proficiency in use of computers as communications, computational and design tools in engineering practice.
   e. an understanding of the uncertainties involved in engineering systems and the role of probabilistic and statistical techniques in dealing with uncertainty.
   f. participated in a strong design experience throughout the curriculum that includes identification, formulation, and solution of open-ended problems, as well as working in multi-disciplinary terms.
   g. a cognizance of the ethical and professional responsibilities of an engineer.
   h. had exposure to a variety of professional issues, including professional licensure, project delivery systems, leadership, career management, and other relevant topics.
   i. a broad education in social sciences, arts, and humanities to broaden their horizons; to be sensitized to contemporary issues; to be able to better understand the global and societal context of technical issues; and to be prepared for effective interactions with individuals and groups from other disciplines.
2) To offer a diverse civil engineering curriculum encompassing appropriate required courses in structural, geotechnical, transportation, and water resources and environmental engineering, with elective courses in the same fields, as well as electives covering CAD, surveying, construction management, and other relevant topics.
3) To assist the preparation of the students for engineering practice by providing opportunities for them to gain practical experience and exposure to real-life problems and solutions through co-op and internship programs.
4) To stimulate interactions between undergraduate and graduate students, and involve undergraduates in research projects to expose them to the advanced study environment.

The civil engineering curriculum has been designed to provide a broad education in the basic sciences, mathematics, and engineering sciences, civil engineering analysis and design, and their application to civil engineering practice. The courses in civil engineering may be considered as an array of groups, each representing an area of concern to contemporary society and industry. Technical electives may be selected from one of these major areas according to the student's particular interest or may be chosen from several areas in order to broaden one's knowledge. A student who contemplates continuing study at the graduate level should seek the advice of his/her...
faculty counselor in the selection of elective courses. Realizing the social implications of the practice of civil engineering, the program provides for the development of a background in economics, the social sciences, humanities, communication skills, ethics, and related non-technical areas.

**Admission Requirements:** see page 129.

**DEGREE REQUIREMENTS:** Candidates for the Bachelor of Science degree must complete 133 credits in course work, including satisfaction of the University General Education Requirements (see page 23), as outlined in the following curriculum. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 129. Non-engineering entries, cited below by subject rather than individual course number, indicate courses to be selected in fulfillment of the University General Education Requirements. The degree requirements shown in the curriculum below are in effect as of the publication date of this bulletin. Students should consult an academic adviser for verification of current requirements.

**Substitutions:** In the curriculum below: ECO 2010 may be substituted for ECO 2010; any (HS) designated course for HIS 1995; any (AI) designated course for P S 1030; and any foreign language (FC) through 2010 for ANT 3150.

**Freshman Year**

**First Semester**

- MAT 2010 -- Calculus I: Cr. 4
- CHM 1225 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 3
- CHM 1230 -- Chemical Principles in the Laboratory: Cr. 1
- B E 1100 -- Introduction to Engineering: Cr. 3
- UGE 1000 -- (GE) Information Power: Cr. 1
- ENG 1020 -- (BC) Introductory College Writing: Cr. 4

Total credits: 16

**Second Semester**

- MAT 2020 -- Calculus II: Cr. 4
- PHY 2175 -- (PS) General Physics: Cr. 4
- B E 1300 -- Science of Engineering Materials I 1; Cr. 3
- B E 1310 -- Science of Engg. Materials I Lab: Cr. 1
- P S 1030 -- (AI) The American Governmental System: Cr. 3
- BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 3

Total credits: 18

**Sophomore Year**

**First Semester**

- MAT 2030 -- Calculus III: Cr. 4
- PHY 2185 -- General Physics: Cr. 4
- C E 2400 -- (M E 2400) Statics & Mechanics of Materials: Cr. 4
- B E 3220 -- Probability and Statistics in Engineering: Cr. 3
- Visual and Performing Arts (VP) elective 1: Cr. 3

Total credits: 18

**Second Semester**

- MAT 2150 -- Differential Equations and Matrix Algebra: Cr. 4
- M E 3400 -- Dynamics: Cr. 4
- ECO 2010 -- (SS) Principles of Microeconomics: Cr. 3
- ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
- Civil Engg. Technical Elective: Cr. 3
- English Proficiency Exam: Cr. 0
- Critical Thinking Exam: Cr. 0

Total credits: 17

**Junior Year**

**First Semester**

- C E 3250 -- Applied Fluid Mechanics: Cr. 4
- C E 4300 -- Structures I: Cr. 4
- C E 4450 -- Civil Engg. Materials: Cr. 3
- C E 4850 -- Engineering Economy: Cr. 3
- PHI 1100 -- (PL) Contemporary Moral Issues: Cr. 3

Total credits: 17

**Second Semester**

- C E 4210 -- Intro. to Environmental Engineering: Cr. 4
- C E 4310 -- Structures II: Cr. 4
- C E 4510 -- Introduction to Geotechnical Engineering: Cr. 4
- C E 4600 -- Transportation Engineering: Cr. 4

Total credits: 16

**Senior Year**

**First Semester**

- C E 4350 -- Design of Steel & Concrete Structures: Cr. 4
- C E 4640 -- Transportation Design: Cr. 4
- Design Elective: Cr. 4
- Any (HS) course: Cr. 3

Total credits: 15

**Second Semester**

- C E 4995 -- (WI) Senior Design Project: Cr. 3
- C E Technical Elective: Cr. 3
- Design Elective: Cr. 4
- ENG 3060 -- (OC) Technical Communication II: Writing & Speaking: Cr. 3
- ANT 3150 -- (FC) Anthropology of Business: Cr. 3

Total credits: 16

**Total CREDITS: 133**

**Humanities and Social Science Electives:** See page 131 for socio-humanistic requirements.

**Technical Electives:** Civil Engineering students are required to complete at least six credits in technical electives.

**Design Electives:** Students are required to complete two courses from: C E 4220, C E 5510, C E 5520, C E 5610, C E 6340, C E 6370, C E 6580.

**CIVIL ENGINEERING (C E)**

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

**NOTE:** All 3000- and 4000-level courses are open only to Engineering students.

2400 (M E 2400) Statics and Mechanics of Materials. Cr. 4

Prereq: MAT 2020, PHY 2175; coreq: B E 1300, M E 2060. Application of equations of static equilibrium, geometric compatibility and force-deformation in estimation of load-carrying capability of simple structural or machine elements, and in design of those elements against failure. Forces, moments, couples, equilibrium, free body diagrams, centroids, elastic relationships between external forces acting on deformable bodies and associated stresses and deformations. Behavior of structural and machine elements under axial, torsional, and flexural loading; combined stresses; column buckling. Design projects and reports involving design of simple components against failure.

3010 Introduction to CAD in Civil Engineering. Cr. 3

Prereq: MAT 2020, B E 1010 or equiv. Principles of computer graphics and utilization of computers in the design process. Civil engineering applications of AutoCAD.
3070 Surveying. Cr. 3 (LCT: 2; LAB: 3)
Prereq: PHY 2180 or consent of instructor. Principles of plane surveying; measurement of horizontal and vertical distance, directions and angles, traverses, areas. Material fee as indicated in the Schedule of Classes.

3250 Applied Fluid Mechanics. Cr. 4
Prereq: MAT 2030. Application of theoretical fluid mechanics to problems of special interest to civil engineers including pipe flow, open channel flow, forces on submerged bodies, and flow measurement. Laboratory component of course provides experimental verification of theories and computer visualization. Material fee as indicated in the Schedule of Classes.

4210 Introduction to Environmental Engineering. Cr. 4
Prereq: C E 3250. Introduction to environmental laws; reaction kinetics; principles of mass balances; plug-flow and completely stirred tank reactors; Stoke’s Law; Streeter-Phelps oxygen sag curves; water chemistry; hydrologic cycle; population growth models; elements of soil waste management and air pollution. Material fee as indicated in the Schedule of Classes.

4220 Water Supply and Wastewater Engineering. Cr. 4
Prereq: C E 4210. Analysis and design of water supply and wastewater treatment systems; water distribution systems; treatment of municipal water supplies, including sedimentation, softening, filtration and disinfection; design of sanitary and storm sewers; primary, secondary and tertiary treatment plant design; sludge handling and disposal. Material fee as indicated in the Schedule of Classes.

4300 Structures I. Cr. 4
Prereq: M E 2400 or C E 2400. Basic concepts of structural analysis; reactions; forces and stresses in trusses and beams; influence lines; elastic deflections; introduction to indeterminate structural analysis.

4310 Structures II. Cr. 4
Prereq: C E 4300 and 3600 or M E 3600. Analysis of structural systems. Force and displacement methods, deflections, reciprocal relations and influence lines. Introduction to plastic analysis. Computer applications.

4350 Design of Steel and Concrete Structures. Cr. 4
Prereq: C E 4310. Behavior and design of structural steel members using LRFD. Behavior and design of reinforced concrete members using ultimate strength design.

4450 Civil Engineering Materials. Cr. 3 (LCT: 2; LAB: 3)

4510 Introduction to Geotechnical Engineering. Cr. 4 (LCT: 3; LAB: 3)

4600 Transportation Engineering. Cr. 4
Prereq: B E 3220. Transportation functions; transportation systems including highways, railways and airways. Techniques of transportation systems analysis including optimization, network flows and queuing theory. Material fee as indicated in the Schedule of Classes.

4640 Transportation Design. Cr. 4
Prereq: C E 4600. A description of design elements of various system components of transportation; including the driver, vehicle and roadway. Traffic flow design elements including volume, density and speed; intersection design elements including delay, capacity and accident countermeasures and terminal design elements including inflow, outflow and circulation.

4850 (I E 4850) Engineering Economy. Cr. 3
Economic analysis of engineering projects. Selection of appropriate interest rates and methods of analysis, analysis and evaluation of alternatives, depreciation and tax considerations, and use of accounting data in comparison of investment alternatives. Material fee as indicated in the Schedule of Classes.

4990 Directed Study. Cr. 1-4 (Max. 6)
Prereq: consent of chairperson. Supervised study and instruction in civil engineering. Written report required.

4995 (WI) Senior Design Project. Cr. 3
Prereq: senior standing in civil engineering. Capstone design experience through civil engineering projects. Satisfies General Education Writing Intensive requirement.

5220 Sanitary Chemistry. Cr. 3
Prereq: C E 4210. Fundamentals of chemical principles and their application to unit operations and process encountered in the treatment of water and waste water. Material fee as indicated in the Schedule of Classes.

5350 Introduction to Structural Dynamics. Cr. 4

5370 Finite Element Analysis Fundamentals. Cr. 4
Prereq: C E 4310 or M E 5600. Matrix structural analysis, discretization of continuous structural systems, stress analysis. Commercial finite element software preprocessing for developing finite element models; postprocessing for evaluating analysis results.

5510 Geotechnical Engineering I. Cr. 4
Prereq: C E 4510. Site investigation, site improvement, bearing capacity and settlement of shallow foundations, axial capacity and lateral deflection of deep foundations, design of conventional earth retaining walls, and basics of slope stability analyses.

5520 Geotechnical Engineering II. Cr. 4
Prereq: C E 4510. Lateral earthpressure theories, design of conventional earth-retaining walls and of reinforced earth walls, anchored sheet-pile walls and cofferdams, fundamentals of soft-ground tunneling, two- and three-dimensional slope stability analyses, and static design of earth dams.

5580 (HWM 5580) Land Disposal of Hazardous Waste. Cr. 2
Prereq: CHE 5510. Industrial landfill, biological methods of disposal, land disposal techniques, ocean disposal techniques, disposal of flue gas cleaning wastes.

5590 (HWM 5590) Biological Methods of Waste Disposal. Cr. 2
Prereq: CHE 5510. Biological treatment of industrial wastes, including unit operations, solids handling and activated carbon processes.

5610 Highway Design. Cr. 4
Prereq: C E 4640. Application of standards, theory and practice in design of streets and highways. Design of streets and highways including cross section elements, shoulder and roadside features. Pavement design and rehabilitation work.

5810 Legal Aspects of Engineering Problems. Cr. 3
Open only to seniors and graduate students. Business of contracting, construction, liabilities of owner, architect, engineer and contractor. Rights in land, boundaries and foundations. Case studies. Material fee as indicated in the Schedule of Classes.

College of Engineering 141
5995 Special Topics in Civil Engineering I. Cr. 1-4
Prereq: consent of chairperson. Topics to be announced in Schedule of Classes. (I)

6010 Construction Organization and Management. Cr. 3
Prereq: C E 4850 or consent of instructor. An introduction to the organization and management of design and construction firms. Organizational and managerial theories. Problems of organization management, operation and control of engineering systems, case studies. Material fee as indicated in the Schedule of Classes. (W)

6050 Construction Estimating. Cr. 3
Prereq: C E 4850. Estimating construction costs of engineering projects including materials, manhours, equipment and overhead. Emphasis on construction equipment, including productivity and planning. Bidding and bid documents. (B)

6130 Open Channel Hydraulics. Cr. 4
Prereq: C E 3250 or equiv. Theoretical development of equations governing flow in open channels. Application to real-world engineering problems involving water surface profiles, flood studies, and river. (W)

6150 Hydrologic Analysis and Design. Cr. 4
Prereq: C E 6130. Principles of surface water hydrology and their application for evaluation of floods and the design of surface runoff control system; watershed characteristics; design storms and SCS methods; unit hydrographs; hydrologic models; application of computer methods. (B)

6190 Groundwater. Cr. 4
Prereq: C E 3250. Historical background, aquifers and aquitards, saturated and unsaturated flow, sources of ground water contamination, artificial recharge of ground water, development of ground water basins and efficient use of ground water resources. (Y)

6270 Environmental Management and Sustainable Development. (HWM 6270) Cr. 3
Prereq: C E 4210. Review and application of techniques and practices. (Y)

6330 Advanced Structural Analysis. Cr. 4

6340 Bridge Design and Evaluation. Cr. 4
Prereq: C E 4350. Concepts, procedures, methods of design and condition evaluation for modern highway bridges, according to current specifications. Entire system is covered, including superstructure, substructure, and their connections. (B)

6370 Reinforced and Prestressed Concrete Design. Cr. 4
Prereq: C E 4350. Theory and design of two-way slabs, footings, retaining walls, shear walls, and composite beams using ultimate strength design. Precast and prestressed concrete fundamentals. (W)

6410 Advanced Steel Design. Cr. 4
Prereq: C E 4350. Advanced topics of structural steel design: thin walled rolled and built-up members, beam columns, lateral torsional buckling, steel fatigue design, connection details. Steel design project. (W)

6580 Design of Waste Containment Facilities. Cr. 4
Prereq: C E 4510. Properties and test methods for natural and synthetic materials used in landfills; analysis of chemical interactions, flow mechanisms, stability and settlement for the design of landfill components. (Y)

6660 Pavement Management Systems: Principles and Practices Cr. 3
Prereq: C E 4640. Principles and practices used in pavement management systems, including pavement serviceability, pavement design, priority programming. (Y)
ELECTRICAL and COMPUTER ENGINEERING

Office: 3100 W. Engineering Building; 577-3920
Chairperson: Y. Zhao
Website: http://www.ece.eng.wayne.edu

Professors

Associate Professors
V. Chaudhary, S.M. Mahmud, P. Siy, J. R. Woodyard, H. Ying, C.Z. Xu

Assistant Professors
I. Avrutsky, Q. J. Cheng, J. Choi, X. Han, Y. Xu

Adjunct Professors
G.R. Gerhart, L. Rimai

Degree Programs

BACHELOR OF SCIENCE in Electrical Engineering

Masters of Science in Electrical and Computer Engineering

BACHELOR OF SCIENCE in Computer Engineering

BACHELOR OF SCIENCE in Electrical Engineering

Masters of Science in Electronics and Computer Control Systems — Interdisciplinary

DOCTOR OF PHILOSOPHY with a major in computer engineering

DOCTOR OF PHILOSOPHY with a major in electrical engineering

In the field of electrical and computer engineering, basic physical and mathematical principles are utilized to develop new devices, technologies, and techniques of constantly broadening application. Examples are the development, stemming from advances in solid-state and integrated circuit technology, of smaller, cheaper, and more powerful computers, microprocessors, and other data processors, and their utilization in a growing range of system applications; the growing use of data communications and sophisticated communication networks; the use of lasers, and the development of fiber optic and integrated optical devices for various applications ranging from optical data processing to communication; development of sophisticated control techniques, smart sensors, and transducers for advanced automation and electric power systems; the application of electronics to health care and diagnostics (such as noninvasive measurements and ultrasound imaging); and energy conversion devices.

The areas of study available in the Department include: solid-state devices, lasers, integrated optics, optical computers, information sciences, digital circuits, computer engineering, integrated and active circuits, nanotechnology, bioengineering, image processing, neural networks, and modern control theory. Programs of both experimental and theoretical study are available in all these areas, as well as other interdisciplinary programs through the Electrical and Computer Engineering Department.

* For requirements, see the Wayne State University Graduate Bulletin.

A more detailed exposition of the research activities of the Department is provided in a descriptive brochure available from the Departmental office. Senior students are encouraged to participate in research activities by means of independent study projects and student assistantships. Graduate students normally participate in the research program as graduate teaching assistants and research assistants.

The College of Engineering laboratory building contains seven instructional laboratories for experimental work in control systems, analog circuits, digital systems, microcomputers, instrumentation, optics, and communication systems; these laboratories are an integral part of the Department’s instructional program. In addition, the Departmental faculty have eight research laboratories dealing with computer systems, computer vision, semiconductor device materials including a clean-room facility, opto-electronics, machine intelligence, and computation and neural networks. Microprocessor system development forms a core for all Departmental activity. Personal computer facilities are available for student use; the College Computer Center as well as the University Computing Services Center are available to all students through individual student accounts.

Bachelor of Science in Electrical Engineering

In addition to the Undergraduate Program Goals listed on page 129, the specific objectives of the electrical and computer engineering B.S. programs include the following:

1) Providing thorough coverage of relevant engineering and scientific principles, and introducing a basic understanding of related fields of engineering.

2) Developing strong oral and written communication skills.

3) Developing the capability to apply theoretical, computational, and experimental methods to solve real problems.

4) Developing computer skills for effective use in engineering. This objective includes acquiring a working knowledge of modern object-oriented computer languages and assembly languages. It also includes the development of skills for effective use of operating systems and software packages for design, analysis, and simulation.

5) Providing hands-on laboratory experience with state-of-the-art facilities and equipment to achieve skill and familiarity with principles of measurement, data analysis, and design of experiments. Problem-solving skills will be developed for analysis and design of both analog and digital circuits and devices.

6) Developing awareness of the societal responsibility of engineers and the essential nature of high ethical standards of professional behavior.

7) Providing effective engineering design experience through active participation in design processes that culminate with a comprehensive senior capstone design class and project. The design experiences will consider the technical aspects of the problem and solution, as well as cost, environmental, safety, accessibility, and other associated constraints.

Admission Requirements: see page 129.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Science degree must complete 136 credits in course work, including satisfaction of the University General Education Requirements (see page 23), as outlined in the following curriculum. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 129. The degree requirements shown in the curriculum below are in effect as of the publication date of this bulletin. However, students should consult an academic adviser for verification of current requirements.

College of Engineering 143
In the freshman and sophomore years, the student acquires a foundation in the principles of science and mathematics required for the study of engineering. In addition, newly-revised general education studies are provided to ensure a well-rounded education. Basic concepts of electrical circuits, electronics, computers and electromagnetic fields are studied after prerequisite mathematics and science backgrounds are mastered. In the senior year, a choice of electrical and computer engineering electives permits the student to specialize in one or more areas. These electives are chosen under the guidance of a faculty adviser. Alternately, the student may elect the computer option, in which a planned program of computer engineering courses replaces the electives and a few of the required courses in the regular program.

Substitutions: In the curriculum below: ECO 2020 may be substituted for ECO 2010; any (HS) designated course for HIS 1995; any (AI) designated course for P S 1030; and any foreign language (FC) through 2010 for ANT 3150.

ELECTRICAL ENGINEERING CURRICULUM

Freshman Year

First Semester
MAT 2100 -- Calculus I: Cr. 4
CHM 1225 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 3
CHM 1230 -- Chemical Principles in the Laboratory: Cr. 1
B E 1010 -- (CL) Introduction to Computers in Engineering: Cr. 3
ENG 1020 -- (PS) General Physics: Cr. 4
UGE 1000 -- (GE) Information Power: Cr. 1
Total credits: 16

Second Semester
MAT 2100 -- Calculus II: Cr. 4
PHY 2170 -- (PS) General Physics: Cr. 4
PHY 2171 -- General Physics Laboratory: Cr. 1
B I 1510 -- (LS) Basic Life Mechanisms: Cr. 3
B E 1300 -- Science of Engineering Materials I: Cr. 3
B E 1310 -- Science of Engineering Materials I Lab: Cr. 1
P S 1030 -- (AI) The American Governmental System: Cr. 3
Total credits: 19

Sophomore Year

First Semester
MAT 2030 -- Calculus III: Cr. 4
PHY 2185 -- General Physics: Cr. 4
B E 3220 -- Probability & Statistics in Engineering: Cr. 3
ECE 2620 -- Introduction to Microcomputers: Cr. 4
ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
ECE Design Laboratory Elective: Cr. 2
Total credits: 18

Second Semester
MAT 2150 -- Differential Equations and Matrix Algebra: Cr. 4
B E 3040 -- Computational Methods in Engineering: Cr. 3
ECE 3300 -- Introduction to Electrical Circuits: Cr. 3
ECE 3310 -- Electrical Circuits: Laboratory: Cr. 1
ECE 3610 -- Digital Logic I: Cr. 4
ECE 3630 -- Digital Circuits Laboratory: Cr. 2
ECE 4470 -- (WI) Microcomputer Interface Design: Cr. 4
ECE Design Electives: Cr. 8
Total credits: 20

Junior Year

First Semester
ECE 3330 -- Electrical Circuits II: Cr. 4
ECE 3570 -- Electronics I: Cr. 4
ECE 3580 -- Electronics I Laboratory: Cr. 2
ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
Total credits: 16

Second Semester
ECE 4330 -- Linear Network and System Analysis: Cr. 4
ECE 4340 -- Microcomputer-Based Instrumentation Laboratory: Cr. 2
ECE 4570 -- Electronics II: Cr. 4
ENG 3060 -- (OC) Technical Communication II: Writing and Speaking: Cr. 3
ANT 3150 -- (FC) Anthropology of Business: Cr. 3
Total credits: 16

Senior Year

First Semester
ECE 4470 -- Control Systems I: Cr. 4
ECE 4700 -- Introduction to Communication Theory: Cr. 4
ECE 4800 -- Electromagnetic Fields & Waves I: Cr. 4
ECE Design Laboratory Elective: Cr. 2
PHI 1100 -- (PL) Contemporary Moral Issues: Cr. 3
Total credits: 17

Second Semester
ECE 4600 -- (WI) Microcomputer Interface Design: Cr. 4
ECE Electives: Cr. 8
ECE Design Laboratory Elective: Cr. 2
Total credits: 14

TOTAL CREDITS: 136

Life Science Requirement: Choose from the department-approved list. Substitution of a course not on this list requires approval of the department chairperson or delegated faculty adviser.

Laboratory Requirements: At least fourteen credits in laboratory courses are required. These credits include three credits in chemistry and physics laboratories, one credit in ECE 2620, seven credits in other ECE laboratory courses, plus four credits in ECE Design Laboratory courses (including, but not limited to, ECE 4480, 5630, 5760), and at least one credit in another approved laboratory course.

Design Requirement: Portions of the credit of specific ECE courses are designated as Design Component credits. At least six credits are required: four credits in ECE Design Laboratory courses (including, but not limited to, ECE 4480, 5630, 5760), and at least fourteen credits accumulated from the Departmental list of approved design component options. A description of the current design component content of ECE courses is available from Departmental advisors. Students should review their progress toward fulfillment of the design requirement each time they receive academic program counseling.

Withdrawal Policy: No course may be dropped by the fifth week of classes without a written excuse.

Course Material Fee: A course material fee is charged for laboratory courses using expendable materials.

OPTIONS

In the junior and senior years students may elect courses aimed at furthering education in either the electrical or computer field:

ELECTRICAL OPTION

Electrical Option courses are as given above, in the first semester of the Senior Year:
ECE 4470 -- Control Systems I: Cr. 4
ECE 4700 -- Introduction to Communication Theory: Cr. 4

1. Students who wish to carry sixteen or fewer credits per semester may defer this course until the spring or summer term.
ECE Electives: Cr. 8

COMPUTER OPTION

The Computer Option courses listed below replace those given above for the Electrical Option:

ECE 4050 -- Algorithms and Data Structures: Cr. 4
ECE 4680 -- Computer Organization: Cr. 4
ECE 4700 or ECE 4800
  -- Introduction to Communication Theory: Cr. 4
  -- Electromagnetic Fields and Waves I: Cr. 4
ECE Electives: Cr. 8

ELECTRICAL and COMPUTER ENGINEERING COURSES (ECE)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

NOTE: All 3000- and 4000-level courses are open only to Engineering students.

2620 Introduction to Microcomputers. Cr. 4 (LCT: 3;LAB: 3)
Prereq: E 1010. Basics of digital systems, number systems, functional blocks of microcomputers, assembly language and machine code, applications of microcomputers and experimental demonstrations. Introduction to digital logic. Material fee as indicated in the Schedule of Classes. (T)

3300 Introduction to Electrical Circuits. Cr. 3 (LCT: 3)
Prereq: PHY 2185; coreq: MAT 2150. Electrical quantities and waveforms; resistance and Ohm’s law; networks and Kirchhoff’s laws; network equivalents; nodal and mesh analysis; Thevenin’s theorem and other network theorems. Sinusoidal steady-state response. First- and second-order systems. Introduction to sinusoidal steady-state response. (T)

3310 Electrical Circuits: Laboratory. Cr. 1 (LAB: 4)
Coreq: ECE 3300. Introduction to DC/AC circuits and electronic instrumentation with applications to measurements in simple electrical networks. Material fee as indicated in the Schedule of Classes. (T)

3330 Electrical Circuits II. Cr. 4 (LCT: 4)

3570 Electronics I. Cr. 4 (LCT: 4)
Prereq, or coreq: ECE 3330. Graphical and small signal analysis of semiconductor devices; equivalent circuits; gain and bandwidth; multi-state and feedback amplifiers; special-purpose circuits. Material fee as indicated in the Schedule of Classes. (T)

3580 Electronics Laboratory. Cr. 2 (LCT: 1;LAB: 3)
Prereq, or coreq: ECE 3570. Experimental investigation of semiconductor devices and their behavior in single-stage amplifier, pulse, and power circuits. Design of simple single-state circuits. Material fee as indicated in the Schedule of Classes. (T)

3610 Digital Logic I. Cr. 4 (LCT: 4)
Prereq: PHY 2185, ECE 2620; prereq, or coreq: MAT 2150. Introduction to Boolean algebra; switches, gates. Minimization of switching circuits, ROMs, PROMs, and PLAs. Flip-flops. Reduction and minimization of sequential machines. The state-assignment problem. Asynchronous sequential circuits. (T)

3630 Digital Circuits Laboratory. Cr. 2 (LCT: 1;LAB: 3)
Prereq: or coreq: ECE 3610; coreq: MAT 2150. Design of decoders and other combinatorial logic circuits, design of flip-flops, counters, shift registers, and other sequential logic circuits. Choice of logic families, interfacing different logic families. Material fee as indicated in the Schedule of Classes. (T)

4050 Algorithms and Data Structures. (CSC 5050) Cr. 4
Prereq: knowledge of C or C++ programming. Not for major credit. Introduction to problem solving methods and algorithm development; data abstraction for structures such as stacks, queues, linked lists, trees, and graphs; searching and sorting algorithms and their analysis. (T)

4330 Linear Network and System Analysis. Cr. 4 (LCT: 4)
Prereq: ECE 3330. Laplace transform for complete solution of linear network or system response. Homogeneity, superposition, and time invariance properties. Convolution; Fourier analysis of periodic signals; discrete-time signals, difference equations, and z-transform methods. Formulation of equilibrium equations for electromechanical systems. Linear incremental concepts. (T)

4340 Microcomputer-Based Instrumentation Laboratory. Cr. 2 (LCT: 1;LAB: 3)
Prereq: ECE 3570, 3580, 3630; prereq, or coreq: 4330. Multipurpose personal-computer-based approach to real time instrumentation. Current interfacing and software used for data acquisition, transmission, analysis and report writing. Material fee as indicated in the Schedule of Classes. (T)

4470 Control Systems I. Cr. 4 (LCT: 4)
Prereq: ECE 4330. System representations; feedback characteristics; time-domain characteristics; Routh-Hurwitz; Root Locus Plots; Nyquist criteria, Bode plots and Nichols charts; series compensation. (T)

4480 Systems and Control Laboratory. Cr. 2 (LCT: 1;LAB: 3)
Prereq: ECE 4470. Response of electromechanical devices and mechanisms in open- and closed-loop systems. D.c., a.c., and digital systems with cascade and feedback compensation techniques. Material fee as indicated in the Schedule of Classes. (Y)

4570 Electronics II. Cr. 4 (LCT: 4)
Prereq: ECE 3300, PHY 3300, MAT 2150 for non-ECE students. Aspects of electrical properties of semiconductors, the physical electronics of P-N junction, bipolar, field effect transistors, and device fabrication technology essential to understanding semiconductor active devices and integrated circuits. Introduction to the behavior of semiconductor and electronics devices. (T)

4600 (WI) Microcomputer Interface Design. Cr. 4 (LCT: 4)

4610 Introduction to Logical Design of Computers. Cr. 4 (LCT: 4)
Prereq: ECE 3610, 3570. Design of arithmetic units, counters, and registers. Design of core memories and semiconductor memories. Direct memory access circuits. Design of hardwired and microprogrammed control units. Design of a small computer. Introduction to VLSI design. (T)

4680 Computer Organization. Cr. 4 (LCT: 4)
Prereq: ECE 3330, 3610. Introduction to basic concepts of digital computers including representation of information, storage mechanisms, logical circuits, I/O devices and interfaces, elementary machine, special features in computers. (T)

4700 Introduction to Communication Theory. Cr. 4 (LCT: 4)
Prereq: ENG 3220 and ECE 4330. Basic information transmission concepts. Spectral analysis. Transmission through linear networks. Sam-
plling principles. Digital and analog communication signals and systems. The effect of noise in communication systems. Elementary decision theory. (T)

4800 Electromagnetic Fields and Waves I. Cr. 4 (LCT: 4)
Prereq: ECE 3330. Fundamentals of electromagnetic engineering, static electric and magnetic fields using vector analysis and fields of steady currents, Maxwell’s equations and boundary value problems. Basic principles of plane waves, transmission lines and radiation. (T)

4850 Fiber Optics. Cr. 4 (LCT: 4)
Prereq: ECE 3330. Light-wave fundamentals, optical fibers and waveguides, basic optical transmitters and receivers, couplers and switches, basic fiber optic networks, optic link design. (T)

4990 Directed Study. Cr. 1-4 (Max. 4) (IND: 1)
Prereq: senior standing; written approval of proposed study outline by adviser and chairperson prior to registration. Supervised study and instruction in a field selected by the student. (T)

5001 Advanced Design in Electrical and Computer Engineering. Cr. 4
Open only to AGRADE students. Coreq: ECE 4600. Design concepts and techniques; design, fabricate and test prototypes; current status of the technology; final written report. (T)

5002 Research Projects in Electrical and Computer Engineering. Cr. 4
Open only to AGRADE students. Prereq: written consent of instructor. Individual or team research projects. Literature survey on current topic; proposal for projects; final written report required. (T)

5020 (CSC 6620) Matrix Computation I. Cr. 4 (LCT: 4)
Prereq: CSC 2110, CSC 2060 or equiv.; and CHE 3040 for engineering students. Background matrix algebra; linear system sensitivity; basic transformations; Gaussian elimination; symmetric systems; positive definite systems; Householder method for least squares problems; unsymmetric eigenvalue problems; the QR algorithm. (I)

5100 (BME 5010) Engineering Physiology. (CHE 5100) (IE 5100) (ME 5100) Cr. 4 (LCT: 4)
Prereq: senior standing. The basic principles of human physiology presented from the engineering viewpoint. Bodily functions, their regulation and control discussed in quantitative terms and illustrated by simple mathematical models when feasible. (F)

5120 Artificial Neural Systems I. Cr. 4

5170 (BME 5570) Design of Human Rehabilitation Systems. (IE 5170) (ME 5170) Cr. 4
Prereq: senior standing. Design, fabrication and testing of customized hardware to aid handicapped patients. (F)

5310 Active Filters. Cr. 4 (LCT: 4)

5370 Mechatronic System Design I. (BME 5530) Cr. 4
Prereq: ECE 4600 or equiv.; written consent of instructor. Students work in small groups to design and build "smart" devices or systems. These products will integrate sensors, digital logic and/or microprocessors, and user interfacing. The products will be requested by "clients" and the student will work as part of a cross-disciplinary team. (F)

5380 Mechatronic System Design II. (BME 5540) Cr. 4
Prereq: ECE 4600 or equiv.; written consent of instructor. Students work in small groups to design and build "smart" devices or systems. These products will integrate sensors, digital logic and/or microprocessors, and user interfacing. The products will be requested by a "client" and the students will work as part of a cross-disciplinary team. (F)

5410 Power Electronics and Control. Cr. 4 (LCT: 3)
Prereq: ECE 4330. Control of electric energy using solid-state devices, diodes, thyristors, triacs; mathematical analysis of circuits containing these devices; power converters and control; solid-state drives for motor control. (I)

5430 Electric Energy Systems Engineering. Cr. 4 (LCT: 4)

5440 Computer-Controlled Systems. Cr. 4
Prereq: ECE 4470 or CHE 4600 or M E 4400. Introduction to z-transform and sampling theory. Digital controller design using both transfer function techniques and state space methods. Implementation aspects of computer-controlled systems. (Y)

5470 Control Systems II. Cr. 4 (LCT: 4)
Prereq: ECE 4470; prereq. or coreq: 4480. Continuation of cascade and feedback compensation techniques using root-locus and frequency-response methods, describing functions and phase-plane techniques; introduction to the state-space formulation. Liapunov's direct method, pole-placement using state-variable feedback. (Y)

5500 Current Electronic and Photonic Materials Technology. Cr. 4
Prereq: ECE 4570, MSE 1300, or consent of instructor. Introduction to new and innovative technologies for electronic and photonic materials synthesis and processing. New semiconducting materials. Growth of single crystals of semiconducting materials. Semiconductor material processing techniques. (F)

5510 Electronic and Photonic Materials Laboratory. Cr. 2
Prereq: ECE 5500 and written consent of instructor. Laboratory experience in state-of-the-art techniques for electronic and photonic materials synthesis, processing, and characterization. (W)

5550 Solid State Electronics. Cr. 4 (LCT: 4)
Prereq: ECE 4570, 4800. Physical basis for the energy band structure of solids with particular emphasis on semiconductors and insulators. Basic principles associated with solid-state devices. Extrinsic and intrinsic semiconductors. Behavior of P-N junctions, bi-polar and field-effect transistors. (Y)

5610 Introduction to Parallel and Distributed Systems. Cr. 4
Prereq: ECE 4680. Fundamentals of parallels and distributed systems. Programming experience in both computing environments. (F, W)

5620 Advanced Microprocessors. Cr. 4 (LCT: 4)
Prereq: ECE 4600, 4680, and 5600. Architecture and organization of microcomputers. The configuration, application and programming of several microcomputers. Design and applications of minicomputers. Processor organization, instruction set selection, memory structure and addressing methods, controller designs, hardware arithmetic functions, I/O interface, peripheral devices, applications and required software systems. Personal computers and their applications. (T)

5630 Microcomputer Laboratory. Cr. 2 (LCT: 1; LAB: 3)
Prereq: ECE 4340, 4600. Study of interrupt structures, interfacing with teletypes, floppy disks, cassettes, keyboards and displays, testing and evaluation of microprocessors. Design and development of
complete digital systems using a microprocessor development system. Material fee as indicated in the Schedule of Classes. (T)

5640 (CSC 6280) Advanced Operating Systems. Cr. 4
Prereq: CSC 4420. Distributed operating system design issues including communication, synchronization, processes, file systems, and memory management; study and discussion of systems such as UNIX, MACH, AMOEBA, and CHORUS. (I)

5650 Network Programming for Engineers. Cr. 4
Prereq: ECE 4050 or CSC 5050 or consent of instructor; junior standing or above. Fundamentals of internet protocols, shell programming, network programming using sockets, remote command execution, other topics. Programming assignments give students hands-on experience. (W)

5680 Switching Circuits. Cr. 4 (LCT: 4)

5690 Digital Image Processing. Cr. 4
Prereq: B E 3220, ECE 4330, ECE 4050, or equiv. Concepts of digital image processing from an operational perspective, with good exposure to theory. Accessibility of DIP to engineering. Detailed review of current techniques. (F)

5700 Analog and Digital Communication Circuits. Cr. 4 (LCT: 4)
Prereq: ECE 4570 and 4700. Amplitude, frequency, pulse modulation and digital modulation. Detection, operational amplifiers; introduction to linear integrated circuits. Digital modulation. (I)

5730 Communications Laboratory. Cr. 2 (LAB: 2)
Prereq: ECE 4700; coreq: 5700. Analog and digital modulation techniques, pulse code modulation, delta modulation, FSK, PSK and ASK, data communication, signal processing. Material fee as indicated in the Schedule of Classes. (Y)

5760 Fiber Optics Engineering Laboratory. Cr. 2
Prereq: ECE 4850. Laboratory study of basic components of fiber optic systems: fibers, semiconductor lasers and light emitting diodes, photodetectors, digital and analog receivers and transmitters, filters, and couplers. (Y)

5770 Digital Signal Processing. Cr. 4 (LCT: 4)
Prereq: ECE 4700. Analysis of discrete signals and systems. Applications to digital filtering, active filters, digital communication and encoding. (Y)

5870 Optical Communication Networks. Cr. 4 (LCT: 4)
Prereq: ECE 4700; 4850. Laser and detectors; modulation and demodulation; optical transmitters and receivers; optical filters; optical amplifiers; architecture and network control; multiaccess networks; FDDI networks, SONET/SDH, ATM, system performance. (Y)

5885 Security and Electronic Commerce. Cr. 4
Prereq: ECE 4050. Basic principles of computer security and cryptography; focus on electronic commerce applications. (W)

5990 Directed Study. Cr. 1-4 (Max. 4) (IND: 1)
Prereq: admission to M.S. program, written approval of proposed study outline by adviser and chairperson prior to registration. Supervised study and instruction in the field selected by the student. (T)

5995 Special Topics in Electrical and Computer Engineering I. Cr. 1-4 (LCT: 1)
Prereq: written consent of instructor. Maximum of eight credits in Special Topics may be elected in any one degree program. Special subject matter in electrical and computer engineering. Topics to be announced in Schedule of Classes. (T)
Today’s production is computer-based and provides flexibility through computer control. The manufacturing engineer is responsible for designing and implementing the cells and production lines which become the basic units of manufacture. Increasingly, such production units are becoming parts of an integrated factory system, and are not simply islands of automation. The manufacturing engineer must understand the multi-layered control architecture of the integrated factory, and the computer-based technologies which enable it.

The Department maintains laboratories in systems simulation, computer-aided manufacturing, human systems, and concurrent engineering design.

Bachelor of Science Degree in Industrial Engineering

In addition to the Undergraduate Program Goals listed on page 129, the specific goals of the industrial engineering B.S. program include the following:

1) The ability to design and implement computer code in a structured programming language.
2) The ability to apply modern tools including statistical methods, operations research, and computer simulation for systems analysis and process design.
3) The ability to develop the business case to justify an engineering system.
4) The ability to design processes, including the important roles that humans play in integrated systems.
5) The ability to apply modern management tools such as Total Quality Management, Continuous Improvement, Agile Production Systems, and Team Building.

Admission Requirements: see page 129.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Science degree must complete 130 credits in course work, including satisfaction of the University General Education Requirements (see page 23), as outlined in the following curriculum. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 129. Non-engineering courses, cited below by subject rather than by individual courses. In the junior and senior years, students must choose a concentration leading to either the manufacturing engineering degree or the industrial engineering degree. These options are described below.

The directed elective must be approved by the undergraduate adviser. A list of courses appropriate for the directed elective is available from the Department.

Prerequisites for I E 4800, Engineering Design Project: I E 4800 is a capstone course and is intended to build on the knowledge that the student has accumulated throughout the undergraduate program. In order to qualify to take I E 4800 the student must complete at least six of the following seven core courses: B E 3220, I E 4250, I E 4310, I E 4420, I E 4850, I E 5260, I E 5560. One of the six may be taken concurrently with the engineering design project. In addition, the student must complete at least two of the four I E electives, one of which may be taken concurrently with I E 4800.

Substitutions: In the curriculum below: ECO 2020 may be substituted for ECO 2010; any (HS) designated course for HIS 1995; any (AI) designated course for P S 1030; and any foreign language (FC) through 2010 for ANT 3150.
Freshman Year

First Semester
MAT 2010 -- Calculus I: Cr. 4
CHM 1225 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 3
CHM 1230 -- Chemical Principles in the Laboratory: Cr. 1
ENG 1020 -- (BC) Introductory College Writing: Cr. 4
UGE 1000 -- (GE) Information Power: Cr. 1
B E 1010 -- (CL) Introduction to Computers in Engineering: Cr. 3
UGE 1000 -- (GE) Information Power: Cr. 1
CHM 1230 -- Chemical Principles in the Laboratory: Cr. 1
MAT 2010 -- Calculus I: Cr. 4

Second Semester
MAT 2020 -- Calculus II: Cr. 4
PHY 2175 -- (PS) General Physics: Cr. 4
B E 1300 -- Science of Engineering Materials I: Cr. 3
B E 1310 -- Science of Engineering Materials I Lab: Cr. 1
B E 1100 -- Introduction to Engineering: Cr. 3
P S 1030 -- (AI) The American Governmental System: Cr. 3
B E 1010 -- (CL) Introduction to Computers in Engineering: Cr. 3
MAT 2020 -- Calculus II: Cr. 4

Total credits: 16

Sophomore Year

First Semester
MAT 2030 -- Calculus III: Cr. 4
PHY 2185 -- General Physics: Cr. 4
M E 2400 -- Statics & Mechanics of Materials: Cr. 4
B E 3220 -- Probability and Statistics in Engineering: Cr. 3
Visual and Performing Arts (VP) elective: Cr. 3

Total credits: 18

Second Semester
MAT 2150 -- Differential Equations and Matrix Algebra: Cr. 4
B E 3040 -- Computational Methods in Engineering: Cr. 3
I E 4250 -- Engineering Data Analysis: Cr. 4
ECO 2100 -- (SS) Principles of Microeconomics: Cr. 3
B I O 1510 -- (LS) Basic Life Mechanisms: Cr. 3
English Proficiency Exam: Cr. 0
Critical Thinking (CT) Exam: Cr. 0

Total credits: 18

Junior Year

First Semester
M E 2210 -- Thermodynamics: Theory & Lab: Cr. 4
I E 4850 -- Engineering Economy: Cr. 3
I E 3120 -- Work Environment: Cr. 4
ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
Any (HS) course: Cr. 3

Total credits: 17

Second Semester
I E 4420 -- Systems and Simulation: Cr. 4
I E 5560 -- Operations Research: Cr. 4
ENG 3060 -- (OC) Technical Comm. II: Writing & Speaking: Cr. 3
E C E 3300 -- Introduction to Electrical Circuits: Cr. 3
E C E 3310 -- Electrical Circuits Laboratory: Cr. 1

Total credits: 15

Senior Year

First Semester
I E Technical Elective: Cr. 4
I E Technical Elective: Cr. 4
I E 5260 -- Principles of Quality Control: Cr. 4
A N T 3150 -- (FC) Anthropology of Business: Cr. 3

Total credits: 15

Second Semester
I E 4800 -- Engineering Design Project: Cr. 4
I E 4310 -- (WI) Production Control: Cr. 4
Directed Elective: Cr. 3
PHI 1100 -- (PL) Contemporary Moral Issues: Cr.: Cr. 3

Total credits: 14

TOTAL CREDITS: 130

MANUFACTURING OPTION

Students wishing to complete a course of study with a manufacturing option should elect the following courses as the I E electives and Directed Elective:

I E 3450 -- (M E 3450) Manufacturing Processes I: Cr. 3
I E 4450 -- Concurrent Engineering Design: Cr. 4
I E 4410 -- Computer Aided Manufacture: Cr. 4

INDUSTRIAL ENGINEERING (I E)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

NOTE: All 3000- and 4000-level courses are open only to Engineering students.

3120 The Work Environment. Cr. 4
Prereq: I E 3220. Role of the human as an element of the work environment. Traditional issues of work standards, productivity analysis and occupational safety are introduced. Examination of functional and organizational role of the worker; impact of emerging computer-based technologies on work design and implementation strategies is discussed. (Y)

3450 (M E 3450) Manufacturing Processes I. Cr. 3
Prereq: M E 2400. A study of the field of manufacturing processes from a mechanical engineering design standpoint. Topics include: processing of metals, polymers, and ceramics, and computer-aided manufacturing. Material fee as indicated in the Schedule of Classes. (Y)

4250 Engineering Data Analysis. Cr. 4
Prereq: I E 3220. Advanced concepts for the analysis of variability in engineering problems, multivariate distributions, hypothesis testing, non-parametric statistics, point and interval estimation, fitting straight lines, goodness of fit tests, contingency tables and introduction to the analysis of variance. (W)

4310 (WI) Production Control. Cr. 4
Prereq: I E 5560, ENG 3050, I E 4250. The design of production planning and control systems. Materials management, forecasting, planning, scheduling of production systems, the planning and scheduling for large scale projects and introduction to the design of computerized materials management systems. Applications of operations research models to production control problems. (Y)

4330 Facilities Design. Cr. 4
Prereq: I E 3120, 4310, 4870. Design of manufacturing, warehouse and material handling facilities. Use of analytic and computer-aided methods in the facilities design process. (Y)

4410 Computer Aided Manufacture. Cr. 4
Prereq: B E 1010. The use of microprocessors in the design of computer-aided manufacturing systems. A design project involving software development and the construction of a physical simulation is required. (Y)

1. Students who wish to carry sixteen or fewer credits per semester may defer this course until the spring or summer term.
4420  Systems Simulation. Cr. 4
Prereq: I E 3220, B E 1010. Systems modeling and discrete event simulation. Methodology applied to analysis and design of a broad range of systems including both production and service systems. Computer assignments and a term project are required. (Y)

4450  Concurrent Engineering Design. Cr. 4
Prereq: I E 3450. Integration of product and process design. Topics include: design for manufacture, design for assembly, material selection and producability. Introduction to a strategic approach to product design which integrates technical aspects of product design with basic issues of manufacturing system design. (Y)

4800  Engineering Design Project. Cr. 4
Prereq: I E 4250, 4310, 4870, 5560. An intensive design experience defined and executed by the student; course serves both industrial engineering and manufacturing engineering branches of the curriculum. (Y)

4850  Engineering Economy. (C E 4850) Cr. 3
Economic analysis of engineering projects. Selection of appropriate interest rates and methods of analysis, analysis and evaluation of alternatives, depreciation and tax considerations, and use of accounting data in comparison of investment alternatives. Material fee as indicated in the Schedule of Classes. (Y)

4990  Directed Study. Cr. 1-6
Prereq: senior standing; consent of chairperson; outline of proposed study approved by instructor and chairperson prior to election of course. Supervised study and instruction in a field selected by the student. (B)

5100  (BME 5010) Engineering Physiology. (CHE 5100) (ECE 5100) (M E 5100) Cr. 4
Prereq: senior standing. The basic principles of human physiology presented from the engineering viewpoint. Bodily functions, their regulation and control discussed in quantitative terms and illustrated by simple mathematical models when feasible. (F)

5170  (BME 5570) Design of Human Rehabilitation Systems. (ECE 5170) (M E 5170) Cr. 4
Prereq: senior standing. Design, fabrication and testing of customized hardware to aid handicapped patients. (F)

5260  Principles of Quality Control. Cr. 4
Prereq: I E 3220. Statistical quality control including process capability, control charts, and acceptance sampling procedures. Procedures for measurement of dimensional tolerance are introduced. Computer-based data collection and analysis. (Y)

5560  Operations Research. Cr. 4
Prereq: I E 3220, MAT 2150. An introduction to the philosophy of operations research. Formulation of linear programming models and their solution. Duality and sensitivity analysis. The transportation model. Introduction to probabilistic modeling and applications of queueing models. (F)

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4420  Systems Simulation. Cr. 4
Prereq: senior standing. The basic principles of human physiology for measurement of dimensional tolerance are introduced. Computer-based data collection and analysis. (Y)

4450  Concurrent Engineering Design. Cr. 4
Prereq: I E 3450. Integration of product and process design. Topics include: design for manufacture, design for assembly, material selection and producability. Introduction to a strategic approach to product design which integrates technical aspects of product design with basic issues of manufacturing system design. (Y)

4800  Engineering Design Project. Cr. 4
Prereq: I E 4250, 4310, 4870, 5560. An intensive design experience defined and executed by the student; course serves both industrial engineering and manufacturing engineering branches of the curriculum. (Y)

4850  Engineering Economy. (C E 4850) Cr. 3
Economic analysis of engineering projects. Selection of appropriate interest rates and methods of analysis, analysis and evaluation of alternatives, depreciation and tax considerations, and use of accounting data in comparison of investment alternatives. Material fee as indicated in the Schedule of Classes. (Y)

4990  Directed Study. Cr. 1-6
Prereq: senior standing; consent of chairperson; outline of proposed study approved by instructor and chairperson prior to election of course. Supervised study and instruction in a field selected by the student. (B)

5100  (BME 5010) Engineering Physiology. (CHE 5100) (ECE 5100) (M E 5100) Cr. 4
Prereq: senior standing. The basic principles of human physiology presented from the engineering viewpoint. Bodily functions, their regulation and control discussed in quantitative terms and illustrated by simple mathematical models when feasible. (F)

5170  (BME 5570) Design of Human Rehabilitation Systems. (ECE 5170) (M E 5170) Cr. 4
Prereq: senior standing. Design, fabrication and testing of customized hardware to aid handicapped patients. (F)

5260  Principles of Quality Control. Cr. 4
Prereq: I E 3220. Statistical quality control including process capability, control charts, and acceptance sampling procedures. Procedures for measurement of dimensional tolerance are introduced. Computer-based data collection and analysis. (Y)

5560  Operations Research. Cr. 4
Prereq: I E 3220, MAT 2150. An introduction to the philosophy of operations research. Formulation of linear programming models and their solution. Duality and sensitivity analysis. The transportation model. Introduction to probabilistic modeling and applications of queueing models. (F)

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MECHANICAL ENGINEERING

Office: 2100 W. Engineering Building; 577-3845
Chairperson: K. A. Kline
Associate Chairperson: T. Singh
Website: http://www.eng.wayne.edu/ME/

Professors


Associate Professors


Assistant Professors

C. Bir, X. Wu

Adjunct Professors


Adjunct Associate Professors


Degree Programs

BACHELOR OF SCIENCE in Mechanical Engineering

*MASTER OF SCIENCE in Mechanical Engineering

*DOCTOR OF PHILOSOPHY with a major in Mechanical Engineering

The opportunities and challenges in the field of mechanical engineering are many and diverse. The broad variety of career possibilities includes research and development, design analysis and synthesis, manufacturing and production engineering, testing, sales engineering, maintenance and administration. The challenge of a mechanical engineer may lie in the perfection of a device that will be duplicated a million-fold or in the control optimization of a single complex system of unique design. To prepare undergraduate students for these opportunities, the Wayne State University Mechanical Engineering curriculum is designed to give a basic core education in the humanities, mathematics, natural sciences, basic applied sciences, engineering fundamentals, and to provide advanced electives in many applied fields.

Fields of departmental expertise include such important areas as biomechanics, energy conversion, combustion engines, emissions controls, structural analysis, automatic controls, robotics, thermodynamics, continuum mechanics, fluid dynamics, vibrations, heat transfer, mechanisms, acoustics and noise control, design, machine tool design, manufacturing, laser diagnostics, and mechanics of composite materials. Research and teaching is carried out in all of these areas.

* For requirements, consult the Wayne State University Graduate Bulletin.
Bachelor of Science in Mechanical Engineering

The Bachelor of Science in Mechanical Engineering is accredited by the Accreditation Board for Engineering and Technology. In addition to the Undergraduate Program Goals listed on page 129, the specific goals of the mechanical engineering B.S. program include the following:

Mechanical engineering B.S. graduates will be able to apply basic engineering principles to identify and solve problems, and to design, specify the manufacturing of, and evaluate the performance of mechanical systems and processes.

Program Educational Objectives:
The main objective of the undergraduate program is to provide an outstanding curriculum and learning environment, so that undergraduates who have earned the B.S. will:

1) be able to understand scientific principles and apply them to the practice of engineering;
2) be able to communicate effectively;
3) possess the problem-solving skills, background, and confidence necessary to continue self-education throughout their careers;
4) be able to apply computers as tools for engineering;
5) be able to apply the basic principles of measurement, data analysis, and design of experiments learned through hands-on laboratory experience;
6) be able to practice engineering with ethical standards and a sense of responsibility to society;
7) be able to develop creative solutions to engineering problems;
8) be able to work well as part of a team;
9) be able to apply the design process to engineering problems, including the consideration of different technical alternatives, while bearing in mind cost, environmental concerns, safety, and other constraints;
10) be able, based on their first-hand experience, to analyze, construct, test, and evaluate an engineering design.

In support of these educational objectives, faculty members will seek outstanding levels of achievement in their research and engineering practices. To further foster professionalism, the Department encourages students to be active participants in ASME, Pi Tau Sigma, SAE and other student professional organizations.

Admission Requirements: see page 129. All entering freshmen are initially advised by the Associate Chairperson of the Department. Subsequently, at the end of the sophomore year the student may be assigned a different Department faculty member as an adviser for the last two years. The student and adviser together plan a complete program of study, including electives, which meets departmental requirements and the interests of the individual student. Three technical electives must be chosen from among the 5000 level courses offered by the Mechanical Engineering Department. These may include advanced (second) courses in strength of materials, fluid mechanics, approximate methods of analysis, automatic controls, or vibrations; or they may build on prior sequences such as thermodynamics and heat transfer or mechanical design and mechanisms; or they may be in new directions such as acoustics, biomechanics, engine combustion, or directed study and research in an area of mutual interest to the student and a faculty member.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Science degree must complete 136 credits in course work, including the University General Education Requirements (see page 23), as outlined in the following curriculum. All prerequisites are strictly enforced for undergraduate courses; any deviation in prerequisites must be approved by the Director of Undergraduate Studies. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 129.

Evening courses and cooperative programs allow professionals working in local industry to pursue an undergraduate degree while continuing employment. The degree requirements shown in the curriculum below are in effect as of the publication date of this bulletin; however, students should consult an academic adviser for verification of current requirements.

Substitutions: In the curriculum below: ECO 2020 may be substituted for ECO 2010; any (HS) designated course for HIS 1995; any (AI) designated course for PS 1030; and any foreign language (FC) through 2010 for ANT 3150.

MECHANICAL ENGINEERING CURRICULUM

Freshman Year
First Semester
MAT 2010 -- Calculus I: Cr. 4
CHM 1225 -- (PS) Chemical Structure, Bonding & Reactivity: Cr. 3
CHM 1230 -- Chemical Principles in the Laboratory: Cr. 1
ENG 1020 -- (BC) Introductory College Writing: Cr. 4
UGE 1000 -- (GE) Information Power: Cr. 1
B E 1010 -- (CL) Introduction to Computers in Engineering: Cr. 3
Total credits: 16

Second Semester
M E 2050 -- Intro. to Computer-Aided Mechanical Drafting: Cr. 2
B E 2080 -- Intro. to Engineering Design & Problem Solving: Cr. 2
MAT 2020 -- Calculus II: Cr. 4
PHY 2175 -- (PS) General Physics: Cr. 4
B E 1300 -- Science of Engineering Materials I: Cr. 3
B E 1310 -- Science of Engineering Materials I Lab: Cr. 1
Mathematics Proficiency Exam: Cr. 0
Total credits: 16

Sophomore Year
First Semester
MAT 2030 -- Calculus III: Cr. 4
PHY 2185 -- General Physics: Cr. 4
M E 2400 -- Statics and Mechanics of Materials: Cr. 4
M E 2210 -- Thermodynamics: Theory and Lab: Cr. 4
ECO 2010 -- (SS) Principles of Microeconomics: Cr. 3
Total credits: 19

Second Semester
M E 3400 -- Dynamics: Cr. 4
MAT 2150 -- Differential Equations and Matrix Algebra: Cr. 4
B E 3220 -- Probability and Statistics in Engineering 1: Cr. 3
ECE 3310 -- Electrical Circuits: Laboratory: Cr. 1
ENG 3050 -- (OC) Technical Communication I: Report Writing: Cr. 3
English Proficiency Exam: Cr. 0
Critical Thinking (CT) Exam: Cr. 0
Total credits: 18

Junior Year
First Semester
M E 3450 -- Manufacturing Processes I: Cr. 3
M E 3300 -- Fluid Mechanics, Theory and Lab: Cr. 4
ENG 3060 -- (OC) Technical Comm. II: Writing & Speaking: Cr. 3
M E 3480 -- Design of Machine Elements: Cr. 4
B E 3040 -- Computational Methods in Engineering 1: Cr. 3
Total credits: 17

1. Students who wish to carry sixteen or fewer credits per semester may defer this course until the spring or summer term.

College of Engineering 151
Second Semester
M E 4991 -- Heat Transfer Theory and Lab: Cr. 4
M E 4993 -- Vibrations Theory and Lab: Cr. 4
M E 4250 -- Mechanical Engineering Design I: Cr. 4
PHI 1100 -- (PL) Contemporary Moral Issues: Cr. 3
Visual and Performing Arts (VP) elective: Cr. 3
Total credits: 18

Senior Year
First Semester
M E 4300 -- Thermal Fluid Systems Design: Cr. 4
Mechanical Engineering Technical Electives: Cr. 8
HIS 1995 -- (HS) Society and the Economic Transition: Cr. 3
P S 1030 -- (AI) The American Governmental System: Cr. 3
Total credits: 18

Second Semester
M E 4500 -- (WI) Mechanical Engineering Design II: Cr. 4
ANT 3150 -- (FC) Anthropology of Business: Cr. 3
BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 3
M E Technical Elective: Cr. 4
Total credits: 14
Total Curriculum Credits: 136

Technical Electives must be selected from the Mechanical Engineering Department at the 5000 level.

MECHANICAL ENGINEERING (M E)
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

NOTE: All 3000- and 4000-level courses are open only to Engineering students.

2050 Introduction to Computer-Aided Mechanical Drafting. Cr. 2
Prereq: B E 1010 or consent of instructor. Introduction to CAD system using available software system at the computer center, including AutoCAD. (F,W)

2060 Introduction to Engineering Design and Problem Solving. Cr. 2
Prereq: B E 1010; coreq: PHY 2175, M E 2050. Introduction to engineering design team activities and to approaches for problem solving in engineering. Development of skills to work as part of a team. Material fee as indicated in the Schedule of Classes. (F,W)

2210 Thermodynamics: Theory and Laboratory. Cr. 4
Prereq: MAT 2020, PHY 2175; coreq: B E 1010. Transformation of heat energy to other energy forms. Introduction to basic concepts and laws of thermodynamics. Description of thermodynamic properties and processes for simple substances. Applications to energy conversion systems, power and refrigeration cycles. Laboratory experiments to supplement lectures; lab arranged. Material fee as indicated in the Schedule of Classes. (F,W)

2400 Statics and Mechanics of Materials. (C E 2400) Cr. 4
Prereq: MAT 2020, PHY 2175; coreq: B E 1300, M E 2060. Application of equations of static equilibrium, geometric compatibility and force-deformation in estimation of load-carrying capability of simple structural or machine elements, and in design of those elements against failure. Forces, moments, couples, equilibrium, free body diagrams, centroids, elastic relationships between external forces acting on deformable bodies and associated stresses and deformations. Behavior of structural and machine elements under axial, torsional, and flexural loading; combined stresses; column buckling. Design projects and reports involving design of simple components against failure.

3300 Fluid Mechanics: Theory and Laboratory. Cr. 4
Prereq: M E 2400; MAT 2150; coreq: M E 2210. Introduction to the nature and physical properties of fluids, statics, equation of motion, incompressible inviscid flow, dimensional analysis, incompressible one-dimensional compressible channel flow. Experiments to supplement lectures. (F,W)

3400 Dynamics. Cr. 4
Prereq: M E 2400, B E 1010, MAT 2030. Basic concepts and principles of dynamics with application of Newton’s Laws of Motion to engineering problems. Kinematics and kinetics of particles and rigid and variable-mass bodies. Equations of motion, impulse-momentum principles, impact and work-energy principles. (F,W)

3450 Manufacturing Processes I. (I E 3450) Cr. 3
Coreq: M E 2400. A study of the field of manufacturing processes from a mechanical engineering design standpoint. Topics include: processing of metals, polymers and ceramics, and computer-aided manufacturing. Material fee as indicated in the Schedule of Classes. (F,W)

3480 Design of Machine Elements. Cr. 4
Prereq: B E 2060, M E 2050, M E 2400; coreq: B E 3220. Static body stresses, strain and deflection, failure theories, introduction to impact loading and fatigue. Design of common mechanical elements: threaded fasteners, rivets, welding and bonding, springs, lubrication and sliding bearings, rolling element bearings. Material fee as indicated in the Schedule of Classes. (F,W)

4210 Heat Transfer: Theory and Laboratory. Cr. 4
Prereq: M E 3300, ENG 3050, B E 3040, B E 3220. Fundamental concepts and basic modes of heat transfer. General equation of heat conduction, steady state heat conduction on one and more dimensions. Transient heat conduction. Heat transfer by radiation, Kirchoff's law and the black body. Radiation between diffuse surfaces. Radiation from gases, vapors and flames. Introduction to heat convection; concept of heat transfer coefficient and nusselt number. Lab experiments to supplement lectures. Material fee as indicated in the Schedule of Classes. (F,W)

4250 Mechanical Engineering Design I. Cr. 4
Prereq: M E 3480, ENG 3050; coreq: M E 3450, M E 4410. Engineering analysis of design case histories through the application of familiar engineering principles and methods. Critical evaluation of previously designed systems, and recommendations for possible improvement, in written and oral student reports. (F,W)

4300 Thermal Fluid Systems Design. Cr. 4
Prereq: M E 4210; ENG 3060. Design of thermal-fluid systems to meet system performance requirements, computer-aided design, system simulation, design optimization including investment economics. Material fee as indicated in the Schedule of Classes. (F,W)

4410 Vibrations: Theory and Laboratory. Cr. 4

4500 (WI) Mechanical Engineering Design II. Cr. 4
Prereq: M E 4210, 4250; ENG 3060. Students work in teams on a semester-long open-ended design project in which elements and subsystems are synthesized into larger systems. Formal written report required at the end of the project. Where applicable, hardware will be fabricated and tested. Material fee as indicated in the Schedule of Classes. (F,W)
5000  Engineering Analysis I. Cr. 4

5010  Engineering Analysis II. Cr. 4

5035  Applications of Finite Element Analysis in Design and Manufacturing. Cr. 4
Prereq: M E 3600. Finite element methods applied in design and manufacturing processes practiced through the usage of state-of-the-art software packages. Analyses will include static analyses, non-linear analyses, thermal and fluid analyses, and modal analyses. (F)

5040  Finite Element Methods I. Cr. 4

5100  (BME 5010) Engineering Physiology. (CHE 5100) (ECE 5100) (I E 5100) Cr. 4
Prereq: senior standing. The basic principles of human physiology presented from the engineering viewpoint. Bodily functions, their regulation and control discussed in quantitative terms and illustrated by simple mathematical models when feasible. (F)

5160  (BME 5210) Musculoskeletal Biomechanics. Cr. 4
Prereq: BME 5010 or PSL 5550; M E 2400. Structure and properties of the major tissue components of the musculoskeletal system and evaluation of how tissues combine to provide support and motion to the body. (W)

5170  (BME 5570) Design of Human Rehabilitation Systems. (ECE 5170) (I E 5170) Cr. 4
Prereq: senior standing. Design, fabrication and testing of customized hardware to aid handicapped patients. (F)

5180  (BME 5370) Introduction to Biomaterials. (M E 5180) (MSE 5180) Cr. 4
Prereq: B E 1300, BME 5010 or PSL 5550. Introduction to study of both biological materials (bone, muscle, etc.) and materials for medical applications. Topics include tissue properties and effects of pathology, biocompatability, and design considerations. (B)

5210  Convective and Radiative Heat Transfer. Cr. 4

5300  Intermediate Fluid Mechanics. Cr. 4

5330  Advanced Thermal Fluid System Design. Cr. 4
Prereq: M E 4210, CHE 3040; ENG 3060 and senior standing in AGRADE program. Design of thermal fluid systems to meet system performance requirements, system simulation, design optimization and economics limitations. Material fee as indicated in the Schedule of Classes. (F,W)

5400  Dynamics II. Cr. 4

5410  Vibrations II. Cr. 4

5440  Industrial Noise Control. Cr. 4
Prereq: senior standing or consent of instructor. Nature and origin of noise in mechanical systems and design for their control. Measurement of sound pressure levels, sound power levels, sound intensity levels, reverberation time, absorption coefficients of materials. (B,W)

5460  Fundamentals in Acoustics and Noise Control. Cr. 4
Prereq: senior or graduate standing. Videotapes and multimedia materials on sound generation, propagation and interaction with solid boundaries. Fundamental theories of sound radiation and control; solving practical engineering noise and vibration problems. (B,F)

5470  Creative Problem Solving in Design and Manufacturing. Cr. 4

5500  (WI) Advanced Engineering Design. Cr. 4
Prereq: M E 4250 and 5330. Open only to AGRADE students. Team work on semester-long project, design concepts to be developed using various design theories, students perform patent literature search, design, fabricate and test prototypes. Final written report and public presentation required. Satisifies Writing Intensive course requirement. Material fee as indicated in the Schedule of Classes. (F,W)

5540  Analysis and Control of Dynamic Systems. Cr. 4
Prereq: MAT 2350 or MAT 2040. M E 3400. Mathematical modeling of linear, lumped, time-invariant systems, open and closed loop systems, single-input-single-output system design using root locus method. (F,W)

5580  Computer-Aided Mechanical Design. Cr. 4
Prereq: M E 3480 or graduate standing in mechanical engineering. Aspects of constraint-based solid modeling and parametric modeling using softwares such as Unigraphics, Solid Edge, I-DEAS, Pro-E. Building intelligent solid models, application to data management and sheet metal design. Introduction to computer-aided simulation and manufacturing. (S)
5600  Advanced Mechanics of Materials. Cr. 4

5610  Experimental Mechanics of Materials. Cr. 4
Prereq: M E 2400. Experimental characterization of mechanical behavior. Instrumentation and measurement of load, strain, deflection, etc.; characterization of creep, fracture toughness, dynamic-mechanical response (damping and vibration). Statistical analysis of data. (W)

5620  Fracture Mechanics in Engineering Design. Cr. 4
Prereq: M E 2400. Linear and nonlinear fracture mechanics principles and their applications to structural design. Stress-intensity factors, J-integral, CTOD concepts to develop fracture control plans. (Y)

5700  Fundamentals of Mechanics. Cr. 4
Prereq: MAT 5070. Cartesian tensor analysis, integral theorems, invariants. Kinematics: material derivative, transport theorem, streamlines, associated theorems, motion gradient and deformation measures; material derivative, transport theorem; stretching and spin; vorticity and circulation. Balance postulates: mass, linear momentum, angular momentum, energy. Constitutive equations: invariance, material isotropy group. Material fee as indicated in the Schedule of Classes. (F)

5720  Mechanics of Composite Materials. Cr. 4
Prereq: M E 2400, senior standing. Analytical modeling of micromechanical and macromechanical behavior of composite materials. Stiffness, strength, hydrothermal effects, laminate analysis, viscoelastic and dynamic behavior. Experimental characterization of mechanical behavior. (F)

5730  Tribology and Lubrication Technology. Cr. 4
Prereq: M E 2400. Friction, wear, and lubrication fundamentals; wear mechanisms, application of coatings, surface engineering fundamentals. (Y)

5800  Combustion Engines. Cr. 4
Prereq: M E 2200 and 2210 or equiv. Thermodynamics and cycle analysis of spark ignition, compression ignition, and gas turbine engines. Combustion processes in actual systems, performance characteristics, combustion abnormalities. Analysis of intake, fuel and exhaust systems. (F)

5810  Combustion and Emissions. Cr. 4
Prereq: M E 5800; or consent of instructor. Fundamentals of emission formation in combustion systems, wall quenching and imperfect combustion, unburned hydrocarbons, carbon monoxide, aldehydes, nitrogen oxides, species stratification in the combustion chamber, particulates. Effect of design parameters and engine operating variables on emission formation. Emission controls and instrumentation. (W)

5900  National Design Competition Projects. Cr. 1-4 (Max. 6)
Prereq: written consent of director of undergraduate studies or graduate students’ adviser. (T)

5990  Directed Study. Cr. 1-4 (Max. 6)
Prereq: senior or graduate standing; seniors: written consent of adviser and chairperson; graduates: written consent of adviser, chairperson, and Engineering Graduate Office for Master’s students. Open only to seniors and graduate students. (T)

5992  Research Experiences for Undergraduates. Cr. 1-4 (Max. 6)
Prereq: written consent of instructor and director of undergraduate studies. (I)
DIVISION of ENGINEERING TECHNOLOGY

Office: 4855 Fourth Street; 577-0800
Chairperson: Mulchand S. Rathod
Website: http://www.et.eng.wayne.edu

Professors
Mulchand S. Rathod, Donald V. Stocker (Emeritus)

Associate Professors
Seymour Cuker (Emeritus), Vladimir Sheyman, Mukasa E. Ssemakula, Ece Yaprap, Chih-Ping Yeh

Assistant Professors
Radian Belu, Gene Liao

Part-Time Faculty

Degree Programs

BACHELOR OF SCIENCE in Computer Technology


BACHELOR OF SCIENCE in Manufacturing Engineering Technology

*MASTER OF SCIENCE in Engineering Technology

The Division of Engineering Technology was founded in 1973 and offers an upper-division (junior and senior level) program and a graduate program. It stresses the applications of current technology to typical industrial problems. Entering students in the upper division program are assumed to have a background equivalent to an associate degree in engineering technology or in a related discipline. The program complements a community college education by providing more application-oriented analytical techniques. In the curriculum a close relationship is maintained between the theoretical principles taught in the classroom and their applications in corresponding laboratories.

Engineering technology is a profession closely related to engineering and deals with the application of knowledge and skill to industrial processes, production, and management. Technologists are organizers of people, materials, and equipment for the effective planning, construction and maintenance of technical facilities and operations. They are responsible for work requiring technical and practical knowledge. They can apply their abilities in using technical equipment, selling technical products, serving as manufacturers' technical representatives, or supervising varied construction projects and manufacturing processes. They work with engineers in many aspects of project development, production planning, and final testing of industrial, military, or consumer products. Their talents are used in virtually every activity where technical expertise is required. They may be involved with electronic and mechanical instruments, experimental equipment, computing devices, tool design, manufacturing, or drafting.

* For specific requirements, see the Wayne State University Graduate Bulletin. Technical skills in the use of electronic equipment, machinery, tools, and drafting instruments are characteristic of this type of work. Thus, engineering technology students can find challenging employment in business and industry. Graduates of Wayne State's Engineering Technology program have been employed in areas such as manufacturing engineering, engineering production, marketing, maintenance, quality control, product testing, field engineering, consulting engineering, design, and technical supervision. Baccalaureate Engineering Technology graduates are often called Technologists to distinguish them from baccalaureate graduates of engineering programs. However, the National Bureau of Labor Statistics does not have a category called 'technologist,' and consequently, many industrial job titles show little distinction between technologists and engineers. Graduates of Engineering Technology and Engineering programs complement each other in their skills and interests, and together with technicians and scientists, they form a technological team which has been able to produce an ever-increasing rate of technological advancement.

BACHELOR OF SCIENCE IN COMPUTER TECHNOLOGY

The Bachelor of Science in Computer Technology (BSCT) prepares students for professional work relating advancements in basic science to practical computer applications. This degree is an interdisciplinary program of study which provides a combination of professional courses in computer science, information systems, electronics, and information technology. The particular strengths of the program include: applied hands-on curriculum; hardware-oriented laboratory experiences; scientific advancement merged with applications; and the various skills and knowledge required for the enhanced job market in this field. The computer technology program offers excellent prospects for professional positions in both business and industry where the sophistication and implementation of computers dominate a broad spectrum of employment opportunities. This region of the state has a large concentration of high technology firms which employ information system designers and application integrators. Classes are usually offered both during the day and in the evening.

Admission Requirements: The BSCT degree program is designed to admit students with an associate degree or equivalent course work in preparatory programs such as computer information systems, computer technology, data processing or closely related disciplines. A minimum grade point average (g.p.a.) of 2.5 is required for admission into the program. Students with a g.p.a. of 2.0 to 2.5 may be admitted as Pre-Engineering Technology students, and may be transferred into the BSCT program upon successful completion of pre-calculus (MAT 1800) and physical science courses, with a g.p.a. of 2.5 or above. A Mathematics Placement Examination is required of entering students who have not already earned advanced credit in pre-calculus. It is recommended that this examination be taken prior to first registration at Wayne State; contact Testing, Evaluation, and Student Life Research Services (577-3400).

Degree Requirements

To earn a BSCT degree, a minimum of 128 semester credits are required. University policy allows a maximum of sixty-four semester credits transferred from community colleges to Wayne State; a minimum of thirty semester credits must be earned from Wayne State University. Division policy mandates that at least twenty-four semester credits must be earned in Division courses.

In order to graduate, the University requires a minimum 2.0 g.p.a. in total residence credit, and the Division a minimum 2.0 g.p.a. in total coursework in the area of specialization; as well as satisfaction of all University Undergraduate General Education Requirements (see page 23).
Plan of Study: Due to wide variation in backgrounds of associate degree holders, as well as differing rates of progress of full- or part-time students, an individually-tailored plan of study will be developed for each student, in conjunction with a faculty adviser. Courses will be selected based on the student's academic preparation, course prerequisites, and proposed scheduling of courses.

Required Background: Any student deficient in any courses listed under Lower Division (Community College) Technical Transfer will be required to remove the deficiency before completion of fifteen credits in basic science/mathematics and technical core courses.

PROGRAM REQUIREMENTS: The BSCT program requires 128 credits as outlined below:

**BASIC SCIENCE AND MATHEMATICS**
- CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
- MAT 1800 -- Elementary Functions: Cr. 4
- MAT 3430 -- (E T 3430) Applied Differential and Integral Calc.: Cr. 4
- Physical Science (PS) elective: Cr. 4
- Life Science (LS) elective: Cr. 3

Total credits: 17

**BSCT TECHNICAL CORE**
- EET 2100 -- Principles of Digital Design: Cr. 3
- EET 3100 -- Advanced Digital Design: Cr. 3
- EET 3720 -- Micro and Programmable Controllers: Cr. 3
- EET 4100 -- Computer Hardware Design: Cr. 3
- E T 3850 -- Reliability and Engineering Statistics: Cr. 3
- E T 3870 -- Engineering Economic Analysis: Cr. 3
- MIT 3350 -- Applied Human Factors: Cr. 3
- CSC 4100 -- Computer Architecture: Cr. 4
- CSC 4110 -- Introduction to Software Engineering: Cr. 3
- CSC 4420 -- Computer Operating Systems: Cr. 3
- CSC 4710 -- Information Systems Design: Cr. 3
- CSC 4996 -- (WI) Frontiers of Computing: Cr. 2
- E T 4999 -- (WI) Senior Project: Cr. 3

Total credits: 42

**COMMUNITY COLLEGE TECHNICAL TRANSFER**
- CSC 1100 -- (CL) Problem Solving and Programming: Cr. 4
- CSC 1140 -- Introduction to COBOL: Cr. 3
- CSC 2110 -- Introduction to Data Structures and Abstractions: Cr. 4
- CSC 2200 -- Data Structures and Algorithm Analysis: Cr. 4
- Other: Cr. 27

Total credits: 42

**COMMUNICATION REQUIREMENTS**
- ENG 1020 -- (BC) Introductory College Writing: Cr. 4
- ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
- ENG 3060 -- (OC) Technical Comm. II: Writing & Speaking: Cr. 3
- English Proficiency Examination: Cr. 0

Total credits: 10

**OTHER GENERAL EDUCATION REQUIREMENTS**
- Historical Studies (HS): Cr. 3
- American Society and Institutions (AI): Cr. 3
- Social Sciences (SS): Cr. 3
- Foreign Culture (FC): Cr. 3
- Visual and Performing Arts (VP): Cr. 3
- Philosophy and Letters (PL): Cr. 3
- Critical Thinking (CT) Competency Examination: Cr. 0

Total credits: 18

Total minimum semester credits for the BSCT degree: 128
Most electrical/electronic engineering technologists work in development, design, application, sales and in the manufacture of products.

The major divisions in the field are power and digital/analog electronics. The power specialist works primarily with power generation and distribution systems of electrical equipment, motors, generators, appliances, and controls. Electronic specialists design and develop electronic circuitry. This specialty also includes areas involving computers, communication systems, and electronic controls and devices.

The impact of the microprocessor is being felt, not only throughout the entire electrical/electronic field but in most design, analysis, control, testing, and data processing applications.

Admission Requirements: see page 156. Students with an associate degree in electrical or electronic technology from a community college or equivalent college-level coursework may be admitted to the baccalaureate degree program in electrical/electronic engineering technology.

This program is designed to extend the practical and applied base of the associate degree program by means of more theoretical and broad engineering technology courses together with further background courses in mathematics, science, and socio-humanities.

Required Background: Any student deficient in any courses listed under Lower Division Technical Transfer will be required to remove the deficiencies before electing any EET courses.

PROGRAM REQUIREMENTS: The program in electrical/electronic engineering technology, leading to the Bachelor of Science in Engineering Technology degree, requires 128 credits as outlined in the following curriculum.

BASIC SCIENCE AND MATHEMATICS

CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
MAT 1800 -- Elementary Functions: Cr. 4
MAT 3430 -- (E T 3430) Applied Differential and Integral Calc.: Cr. 4
MAT 3450 -- (E T 3450) Applied Calc. & Differential Equations: Cr. 4
PHY 2130 -- (PS) General Physics: Cr. 3
PHY 2131 -- General Physics Lab: Cr. 1
PHY 2140 -- General Physics: Cr. 3
PHY 2141 -- General Physics Lab: Cr. 1
CHM 1020 -- (PS) General Chemistry I: Cr. 4
Life Sciences (LS) elective: Cr. 3
Total credits: 29

EET TECHNICAL CORE

E T 3030 -- Statics: Cr. 3
E T 3850 -- Reliability and Engineering Statistics: Cr. 3
E T 3870 -- Engineering Economic Analysis: Cr. 3
EET 3100 -- Advanced Digital Design: Cr. 3
EET 3150 -- Network Analysis: Cr. 4
EET 3180 -- Analog Electronics: Cr. 4
EET 3500 -- Electrical Machines & Power Systems: Cr. 3
EET 3720 -- Micro and Programmable Controllers: Cr. 3
EET 4200 -- Control Systems: Cr. 4
EET Upper Division Technical Electives: Cr. 9
E T 4899 -- (WI) Senior Project: Cr. 3
Total credits: 42

COMMUNITY COLLEGE TECHNICAL TRANSFER

E T 1140 -- Engineering Graphics: Cr. 3
EET 2000 -- Electrical Principles: Cr. 3
EET 2100 -- Principles of Digital Design: Cr. 3
EET 2720 -- Microprocessor Fundamentals: Cr. 3
Other: Cr. 18
Total credits: 30

TOTAL MINIMUM SEMESTER CREDITS FOR THE EET PROGRAM: 128

COMMUNICATION REQUIREMENTS

ENG 1020 -- (BC) Introductory College Writing: Cr. 4
ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
ENG 3060 -- (OC) Technical Communication II: Writing & Speaking: Cr. 3
English Proficiency Examination: Cr. 0
Total credits: 10

OTHER GENERAL EDUCATION REQUIREMENTS

Historical Studies (HS): Cr. 3
American Society and Institutions (AI): Cr. 3
Social Sciences (SS): Cr. 3
Foreign Culture (FC): Cr. 3
Visual and Performing Arts (VP): Cr. 3
Philosophy and Letters (PL): Cr. 3
Critical Thinking (CT) Competency Examination: Cr. 0
Total credits: 18

Electromechanical Engineering Technology (EMT) Curriculum

The electromechanical engineering technology major offers an opportunity in interdisciplinary education, resulting from the implementation of electronics and computers in engineering systems. This program is designed to extend the practical and applied base of the associate degree program by means of more theoretical and comprehensive engineering technology courses, combined with background courses in mathematics, science, and socio-humanities.

Admission Requirements: Students with an associate degree in electrical, electronics, industrial, manufacturing, mechanical, or related technology from a community college or equivalent college-level coursework may be admitted to the bachelor’s degree program in electromechanical engineering technology.

Required Background: Any student deficient in any courses listed under Lower Division Technical Transfer will be required to remove deficiencies before completing fifteen credits in basic science/mathematics and technical core courses.

PROGRAM REQUIREMENTS: The program in electromechanical engineering technology leading to the Bachelor of Science in Engineering Technology degree requires 128 credits as outlined in the following curriculum.

BASIC SCIENCE AND MATHEMATICS

CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
MAT 1800 -- Elementary Functions: Cr. 4
MAT 3430 -- (E T 3430) Applied Differential and Integral Calc.: Cr. 4
MAT 3450 -- (E T 3450) Applied Calc. & Differential Equations: Cr. 4
PHY 2130 -- (PS) General Physics: Cr. 3
PHY 2131 -- General Physics Lab: Cr. 1
PHY 2140 -- General Physics: Cr. 3
PHY 2141 -- General Physics Lab: Cr. 1
CHM 1020 -- (PS) General Chemistry I: Cr. 4
Life Sciences (LS) elective: Cr. 3
Total credits: 29

EMT TECHNICAL CORE

E T 3030 -- Statics: Cr. 3
E T 3850 -- Reliability and Engineering Statistics: Cr. 3
E T 3870 -- Engineering Economic Analysis: Cr. 3
EET 3010 -- Instrumentation: Cr. 3
EET 3720 -- Micro and Programmable Controllers: Cr. 3
MCT 3100 -- Mechanics of Materials: Cr. 3

College of Engineering 157
MIT 3510 -- Manufacturing Processes: Cr. 3
EMT Upper Division Technical Electives: Cr. 18
E T 4999 -- (WI) Senior Project: Cr. 3
Total credits: 42

COMMUNITY COLLEGE TECHNICAL TRANSFER
E T 1140 -- Engineering Graphics: Cr. 3
E T 2140 -- Computer Graphics: Cr. 3
E T 2200 -- Engineering Materials: Cr. 3
EET 2000 -- Electrical Principles: Cr. 3
EET 2720 -- Microprocessor Fundamentals: Cr. 3
Other: Cr. 15
Total credits: 30

COMMUNICATION REQUIREMENTS
ENG 1020 -- (BC) Introductory College Writing: Cr. 4
ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
ENG 3060 -- (OC) Technical Com. II: Writing & Speaking: Cr. 3
English Proficiency Examination: Cr. 0
Total credits: 10

OTHER GENERAL EDUCATION REQUIREMENTS
Historical Studies (HS): Cr. 3
American Society and Institutions (AI): Cr. 3
Social Sciences (SS): Cr. 3
Foreign Culture (FC): Cr. 3
Visual and Performing Arts (VP): Cr. 3
Philosophy and Letters (PL): Cr. 3
Critical Thinking (CT) Competency Examination: Cr. 0
Total credits: 18
Total minimum semester credits for the EMT program: 28

Manufacturing/Industrial Engineering Technology (MIT) Curriculum
The manufacturing/industrial engineering technologist is involved in the design, planning, supervision, construction and management of the methods and equipment for the production of industrial and consumer goods. A manufacturing/industrial engineering technologist may choose to specialize in such areas as quality control, plant engineering, manufacturing engineering, production planning and control, or supervision and management.

Admission Requirements: see page 156. Students entering this program would normally have an associate degree from a community college or equivalent college-level course work in one of the following technical areas:
Drafting; Industrial Management; Industrial Technology; Manufacturing: Machine Tools; Metallurgy; Metals Machining; Metrology and Calibration; Numerical Control; Welding

The program is designed to extend the practical and applied base of the associate degree by providing the graduate with depth and breadth in technical science and technical specialty courses as well as in non-technical related areas.

Required Background: Any student deficient in any courses listed under Lower Division Technical Transfer will be required to remove the deficiency before completing fifteen credits in basic science/mathematics and technical core courses.

PROGRAM REQUIREMENTS: The program in manufacturing/industrial technology leading to the Bachelor of Science in Engineering Technology degree requires 128 credits as outlined in the following curriculum.

BASIC SCIENCE AND MATHEMATICS
CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
MAT 1800 -- Elementary Functions: Cr. 4

MIT 3430 -- (E T 3430) Applied Differential & Integral Calculus: Cr. 4
MAT 3450 -- (E T 3450) Applied Calc. & Differential Equations: Cr. 4
PHY 2130 -- (PS) General Physics: Cr. 3
PHY 2131 -- General Physics Lab: Cr. 1
PHY 2140 -- General Physics: Cr. 3
PHY 2141 -- General Physics Lab: Cr. 1
CHM 1020 -- (PS) General Chemistry I: Cr. 4
Life Sciences (LS) elective: Cr. 3
Total credits: 29

MIT TECHNICAL CORE
E T 3030 -- Statics: Cr. 3
E T 3050 -- Dynamics: Cr. 3
E T 3850 -- Reliability and Engineering Statistics: Cr. 3
E T 3870 -- Engineering Economic Analysis: Cr. 3
EET 3010 -- Instrumentation: Cr. 3
MCT 3100 -- Mechanics of Materials: Cr. 3
MCT 3410 -- Kinematics and Dynamics of Machines: Cr. 3
MIT 3510 -- Manufacturing Processes: Cr. 3
MIT 4700 -- Computer-Aided Design and Manufacturing: Cr. 3
MIT Upper Division Technical Electives: Cr. 12
E T 4999 -- (WI) Senior Project: Cr. 3
Total credits: 42

COMMUNITY COLLEGE TECHNICAL TRANSFER
E T 1140 -- Engineering Graphics: Cr. 3
E T 2140 -- Computer Graphics: Cr. 3
E T 2200 -- Engineering Materials: Cr. 3
EET 2000 -- Electrical Principles: Cr. 3
Other: Cr. 18
Total credits: 30

COMMUNICATION REQUIREMENTS
ENG 1020 -- (BC) Introductory College Writing: Cr. 4
ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
ENG 3060 -- (OC) Technical Com. II: Writing & Speaking: Cr. 3
English Proficiency Examination: Cr. 0
Total credits: 10

OTHER GENERAL EDUCATION REQUIREMENTS
Historical Studies (HS): Cr. 3
American Society and Institutions (AI): Cr. 3
Social Sciences (SS): Cr. 3
Foreign Culture (FC): Cr. 3
Visual and Performing Arts (VP): Cr. 3
Philosophy and Letters (PL): Cr. 3
Critical Thinking (CT) Competency Examination: Cr. 0
Total credits: 18
Total minimum semester credits for the MIT program: 128

Mechanical Engineering Technology (MCT) Curriculum
The upper division program in Mechanical Engineering Technology is intended primarily to provide the graduate with depth and breadth in technical science and technical specialties as well as in non-technical related areas. Graduates of this curriculum will receive the degree of Bachelor of Science in Engineering Technology and enter a field of challenging work in which they are broadly concerned with the design, planning, supervising, managing and controlling the modern devices and systems needed by society.
Sequential elective courses to enhance a candidate's job opportunities can be selected in the areas of design and thermal sciences.

**Admission Requirements:** see page 156.

Students having an associate degree or equivalent college-level course work in one of the following or related technical areas may be admitted to the program:

Aerospace Technology
Automotive Technology
Climate Control
Drafting
Energy Technology
Fluid Power
Manufacturing
Mechanical Design
Mechanical Technology
Powerplant

**Required Background:** Any student deficient in any course listed under Lower Division Technical Transfer will be required to remove the deficiency before completing fifteen credits in basic science/mathematics and technical core courses.

**PROGRAM REQUIREMENTS:** The program in mechanical engineering technology leading to the Bachelor of Science in Engineering Technology degree requires 128 credits as outlined in the following curriculum.

**BASIC SCIENCE AND MATHEMATICS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 1050 — (CL) Introduction to C and Unix</td>
<td>2</td>
</tr>
<tr>
<td>MAT 1800 — Elementary Functions</td>
<td>4</td>
</tr>
<tr>
<td>MAT 3430 — (E T 3430) Applied Differential &amp; Integral Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MAT 3450 — (E T 3450) Applied Calc. &amp; Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2130 — (PS) General Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2131 — General Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHY 2140 — General Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2141 — General Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHM 1020 — (PS) General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Life Sciences (LS) elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total credits: 29

**MCT TECHNICAL CORE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>E T 3030 — Statics</td>
<td>3</td>
</tr>
<tr>
<td>E T 3050 — Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>E T 3850 — Reliability and Engineering Statistics</td>
<td>3</td>
</tr>
<tr>
<td>E T 3870 — Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EET 3010 — Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>MIT 3510 — Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>MCT 3100 — Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MCT 3150 — Applied Thermodynamics</td>
<td>4</td>
</tr>
<tr>
<td>MCT 3180 — Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>MCT 3410 — Kinematics and Dynamics of Machines</td>
<td>3</td>
</tr>
<tr>
<td>MCT 4400 — Design of Machine Elements</td>
<td>3</td>
</tr>
<tr>
<td>MCT Upper Division Technical Electives</td>
<td>4</td>
</tr>
<tr>
<td>E T 4999 — (WI) Senior Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Total credits: 42

**COMMUNITY COLLEGE TECHNICAL TRANSFER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>E T 1140 — Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>E T 2140 — Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>E T 2200 — Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>EET 2000 — Electrical Principles</td>
<td>3</td>
</tr>
<tr>
<td>Other</td>
<td>18</td>
</tr>
</tbody>
</table>

Total credits: 30

**COMMUNICATION REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1020 — (BC) Introductory College Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENG 3050 — (IC) Technical Communication I: Report Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**OTHER GENERAL EDUCATION REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 3060 — (OC) Technical Comm. II: Writing &amp; Speaking</td>
<td>3</td>
</tr>
<tr>
<td>English Proficiency Examination</td>
<td>0</td>
</tr>
</tbody>
</table>

Total credits: 10

**Product Design Engineering Technology (PDT) Curriculum**

The upper-division program in Product Design Engineering Technology is intended to provide the student with depth and breadth in technical science and technical specialty courses, as well as in non-technical related areas. In the area of technical science and design, it prepares graduates for work in the field of design engineering technology.

The core of the program provides an integrated artistic perspective on technical considerations, to enhance the ergonomic design considerations of engineering products, and to prepare graduates for employment in that spectrum of engineering which emphasizes human and machine design relationships.

**Admission Requirements:** see page 156. Students entering this program would normally have an associate degree from a community college or equivalent college-level course work in auto body design, computer-aided design and drafting (CAD), or a related area.

**Required Background:** Any student deficient in any courses listed under Lower Division Technical Transfer will be required to remove the deficiency before completing fifteen credits in basic science/mathematics and technical core courses.

**PROGRAM REQUIREMENTS:** The program in Product Design Engineering Technology technology leading to the Bachelor of Science in Engineering Technology degree requires 129 credits as outlined in the following curriculum.

**BASIC SCIENCE AND MATHEMATICS**

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<td>3</td>
</tr>
</tbody>
</table>

Total credits: 29

**PDT TECHNICAL CORE**

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<td>MIT 3350 — Applied Human Factors</td>
<td>3</td>
</tr>
<tr>
<td>MIT 3510 — Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>MIT 4700 — Computer-Aided Design and Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>AID 3300 — Introduction to Industrial Design</td>
<td>3</td>
</tr>
<tr>
<td>AID 6300 — Transportation Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total credits: 29
College of Engineering

PDT Upper Division Technical Electives: Cr. 12
E T 4999 -- (WI) Senior Project: Cr. 3
Total credits: 42

COMMUNITY COLLEGE TECHNICAL TRANSFER
E T 1140 -- Engineering Graphics: Cr. 3
E T 2140 -- Computer Graphics: Cr. 3
E T 2200 -- Engineering Materials: Cr. 3
EET 2000 -- Electrical Principles: Cr. 3
Other: Cr. 18
Total credits: 30

COMMUNICATION REQUIREMENTS
ENG 1020 -- (BC) Introductory College Writing: Cr. 4
ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
ENG 3060 -- (OC) Technical Communication II: Writing & Speaking: Cr. 3
English Proficiency Examination: Cr. 0
Total credits: 10

OTHER GENERAL EDUCATION REQUIREMENTS
Historical Studies (HS): Cr. 3
American Society and Institutions (AI): Cr. 3
Social Sciences (SS): Cr. 3
Foreign Culture (FC): Cr. 3
Visual and Performing Arts (VP): Cr. 3
Philosophy and Letters (PL): Cr. 3
Critical Thinking (CT) Competency Examination: Cr. 0
Total credits: 18

Total minimum semester credits for the PDT program: 128

BACHELOR OF SCIENCE
IN MANUFACTURING ENGINEERING TECHNOLOGY

The Bachelor of Science In Manufacturing Engineering Technology (BSMFT) degree prepares students for professional work in manufacturing industry and advanced production systems. This degree is a program of study which provides a combination of professional courses in manufacturing, computer systems, electronics, engineering technology, communication, and social science/humanities. The particular strengths of the program include: applied hands-on curriculum; hardware-oriented laboratory experiences; scientific advancement merged with applications; and the various skills and knowledge required for the enhanced job market in this field. This region of the state has a large concentration of high technology firms which employ manufacturing professionals, designers, and application integrators. The program offers excellent prospects for professional positions in both business and industry, where manufacturing dominates a broad spectrum of employment opportunities. Classes in the BSMFT program are usually offered both during the day and in the evening.

Admission Requirements: The BSMFT degree program is designed to admit students from Focus:HOPE’s Greenfield Coalition with an associate degree or equivalent course work in manufacturing from Lawrence Technological University. A minimum grade point average (g.p.a.) of 2.5 is required for admission into the program. Students with a g.p.a. of 2.0 to 2.5 may be admitted as Pre-Engineering Technology students, and may be transferred into the BSMFT program upon successful completion of pre-calculus (MAT 1800) and physics courses, with a g.p.a. of 2.5 or above. A Mathematics Placement Examination is required of entering students who have not already earned advanced credit in pre-calculus. It is recommended that this examination be taken prior to first registration at Wayne State; contact the Testing, Evaluation, and Student Life Research Services office (577-3400).

Degree Requirements
To earn a BSMFT degree, a minimum of 132 semester credits are required. University policy allows a maximum of sixty-four semester credits transferred from community colleges to Wayne State; a minimum of thirty semester credits must be earned from Wayne State University.

In order to graduate, the University requires a minimum 2.0 g.p.a. in total residence credit, and the Division a minimum 2.0 g.p.a. in total coursework in the area of specialization; as well as satisfaction of all University Undergraduate General Education Requirements (see page 23).

The degree credit distribution for the program is as follows:

Area — Minimum Credits
Basic Science and Mathematics: 33
Manufacturing Engineering Technology Core: 38
Associate Degree Technical Transfer Courses: 33
Remaining General Education Requirements: 19
Total credits: 132

For specific curricular outlines, consult the Division of Engineering Technology.
ACADEMIC REGULATIONS

For complete information regarding academic rules and regulations of the University, students should consult the General Information section, page 15. The following additions and amendments pertain to the Division of Engineering Technology.

Dean’s List of Honor Students
A student who achieves a semester grade point average of 3.5 or more, based on a program of at least twelve credits, is notified by the Dean of citation for distinguished scholarship and his/her name is included on the Dean’s List of Honor Students.

Substandard Performance
The grade ‘D’ is considered by the Division of Engineering Technology to represent substandard performance. The implications of this are particularly significant in the science, mathematics, and technical sequences, where a ‘D’ grade from another institution will not be accepted towards the degree.

If a grade ‘D’ is received in any course which is prerequisite to another course in the student’s program, or in a course in his/her area of specialization, or in a required course in mathematics, physics, or chemistry, the student may be required, by his/her adviser, to repeat that course.

A student who is not required to repeat a course in which a ‘D’ grade has been received may elect to audit such a course to better his/her knowledge. However, he/she may not later enroll in the course for credit or obtain credit for the course by Special Examination.

A course in which a grade below ‘C’ has been earned may not be subsequently passed by Special Examination.

When repeating a course, failure for the third time to pass it with a grade satisfactory to the Division constitutes grounds for denying a student further registration in the Division of Engineering Technology.

Probation Policy
A student is considered to be on probation whenever his/her cumulative grade point average (g.p.a.) falls below 2.0. A student may also be placed on probation whenever his/her academic performance is deemed unsatisfactory. When placed on probation, the student is required to meet with the Division Head or the Academic Standards Committee of the Division of Engineering Technology, to remove an academic hold on his/her registration. While on probation, a student may not represent the Division of Engineering Technology in student activities. The Academic Standards Committee of the Division formulates the regulations for probationary students, and hears requests for exceptions.

A student on probation is expected to bring up his/her grade point average promptly. If, at the end of the first semester on probation, the student’s cumulative grade point average has not increased to at least 2.0, he/she will be excluded from the Division of Engineering Technology for at least one calendar year. Course work taken at any institution during the period of exclusion may not be considered for transfer toward an engineering technology degree.

For part-time students, a semester will be considered to consist of twelve consecutive credits. If a student’s cumulative g.p.a. reaches at least 2.0 by the end of the first semester after being placed on probation, he/she will be returned to regular status. Multiple occurrence of probation will result in the student’s exclusion from the Division of Engineering Technology.

A student may be refused the privilege of registering in the Division if, at any time, his/her grade point average falls below 2.0. A student may also be refused the privilege of registering in the Division for irresponsible attendance and performance in class, regardless of any probationary status.

A student who has been refused registration may request that the Division Head or Academic Standards Committee reconsider his/her status. Such request should only be made when evidence of extenuating circumstances can be provided.

Changes of Election and Withdrawal
University policy regarding changes of program and withdrawal from courses may be found on page 39. The following additions and amendments apply to the Division of Engineering Technology:

Registration and Adding Courses: A student may register for courses through the last day of the second week of classes for fifteen-week courses. A registered student may add a course through the last day of the second week of classes by submitting a completed Drop/Add form. A student may not change from one section of a course to another section of the same course after the fourth week of classes.

Drop/Add forms will be valid for ten calendar days from the date of the earliest signature of approval. Once a student is admitted to Wayne State University, he/she does not have to go through the admissions procedure again. If a student does not register for two or more terms, he/she must first have his/her status upgraded at the University Records Office.

Withdrawals: Through the last day of the fourth week of fifteen-week classes, any student may withdraw from any class by processing a Drop/Add form at the Registration Office. If a student wishes to withdraw from class after the end of the fourth week and through the eighth week, he/she must obtain written approval of the instructor and the Division Head. Division policy does not permit withdrawal from classes after the eighth week of classes except in cases of extreme emergency.

Failure to follow the above policies may result in a grade of ‘E.’

UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

ENGINEERING TECHNOLOGY COURSES (E T)

1140 Engineering Graphics. Cr. 3 (LCT: 2;LAB: 2)
Theory and application of projection drawing; multiview drawing and sketching; pictorial drawing and sketching; sectional views; basic techniques of dimensioning; charts and graphs. Material fee as indicated in the Schedule of Classes.

1500 Engineering Technology Trades Internship. Cr. 1-6
Prereq: consent of adviser. Offered for S and U grades only. Industrial practice dealing with specific skill trades in engineering technology, under supervision in cooperative internship program.

2140 Computer Graphics. Cr. 3 (LCT: 2;LAB: 2)
Prereq: E T 1140; coreq: CSC 1050. Solution of drafting problems and development of graphic presentations using computer-assisted drafting techniques. Use of programming techniques for direct solution of drafting/graphic problems and available software routines. Introduction to the use of computer plotters, CRTs, digitizers. Material fee as indicated in the Schedule of Classes.

College of Engineering 161
2200 Engineering Materials. Cr. 3 (LCT: 3)  
Coreq: CHM 1020. Application and characteristics, both physical and chemical, of metallic and nonmetallic materials, polymers, and composites used in industry. The primary process involved in producing these materials.  
(Y)

2500 Co-op Experience. Cr. 1-4 (Max. 4)  
(T)

3030 Statics. Cr. 3 (LCT: 3)  
Prereq: PHY 2130, E T 1140; coreq: E T 3430. The analytical and graphic techniques for determining the forces acting upon and within a body or structural component under static load. Centroids and center of gravity. Moments of inertia.  
(F,W)

3050 Dynamics. Cr. 3 (LCT: 3)  
Prereq: E T 3030 and MAT 3430. Kinematics; kinetics of particles; kinetics of translation and rotation of a rigid body; relative motion; use of equations of plane motion. Application of impulse and momentum principles; work and efficiency.  
(F,W)

3430 (MAT 3430) Applied Differential and Integral Calculus. Cr. 4 (LCT: 4)  
Prereq: MAT 1800. No degree credit in Colleges of Science and Liberal Arts. Limits, derivatives, applications of derivatives, definite integrals and their applications, and trigonometric functions.  
(F,W)

3450 (MAT 3450) Applied Calculus and Differential Equations. Cr. 4 (LCT: 4)  
Prereq: E T 3430. No degree credit in Colleges of Science and Liberal Arts. A continuation of E T 3430, including logarithmic and exponential functions, first and second order ordinary differential equations, vectors, polar coordinates, Laplace transforms, Taylor series, and Fourier series.  
(F,W)

3850 Reliability and Engineering Statistics. Cr. 3 (LCT: 3)  
Prereq: MAT 1800. Probability, hypergeometric, binomial, Poisson, and normal probability distribution; confidence intervals; inferences concerning means; linear regression; introduction to statistical quality control and reliability; use of computers.  
(F,W)

3870 Engineering Economic Analysis. Cr. 3 (LCT: 3)  
Prereq: MAT 1800. Techniques to economically evaluate major technical projects, rate of return and present worth, interest formulae, federal taxes, risk, inflation, and non-economic constraints.  
(F,W)

4990 Guided Study. Cr. 1-6 (Max. 6) (IND: 1)  
Prereq: consent of instructor. Supervised study and instruction in field selected by student.  
(I)

4999 (WI) Senior Project. Cr. 3 (LAB: 3; DSC: 2)  
Prereq: successful completion of English Proficiency Examination, COM 1010. Must be taken during last semester before graduation. Student designs, builds, and tests product; philosophy of design. Project proposal to be submitted by second week, final outcome to be completed by thirteenth week; progress reports, and oral presentation required.  
(F,W)

5500 Graduate Industrial Internship. Cr. 1-4 (Max. 4)  
Prereq: graduate standing and consent of instructor. Offered for S and U grades only. Industrial practice under supervision in cooperative education. Oral presentation and written report describing professional experience required.  
(T)

ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY COURSES (EET)

2000 Electrical Principles. Cr. 3 (LCT: 3)  
(Y)

2100 Principles of Digital Design. Cr. 3 (LCT: 3)  
Applied Boolean algebra and number systems. Logic families, K-mapping; combinational logic, multiplexers and demultiplexers, readouts and displays, flip-flops.  
(Y)

2720 Microprocessor Fundamentals. Cr. 3 (LCT: 2; LAB: 2)  
Coreq: CSC 1050. Use of microprocessors as interface devices, including software, interfaces, memory, registers, and microcomputer system architecture, computer programming design projects. Material fee as indicated in the Schedule of Classes.  
(Y)

3101 Instrumentation. Cr. 3 (LCT: 1; LAB: 3)  
Prereq: EET 2000 and PHY 2140. Theory and use of various instruments and measurement techniques; power supplies, bridges, potentiometers, oscilloscopes; transducers for temperature, pressure, flow, strain, thermocouples, etc.; signal conditioning. Material fee as indicated in the Schedule of Classes.  
(F,W)

3110 Advanced Digital Design. Cr. 3 (LCT: 2; LAB: 2)  
Prereq: EET 2100. System level design of digital logic circuits using hardwired and programmable logic devices. ROMs, PROMs, and PLAs. Synchronous and asynchronous circuit design and analysis.  
(F,W)

3150 Network Analysis. Cr. 4 (LCT: 3; LAB: 2)  
(F,W)

3180 Analog Electronics. Cr. 4 (LCT: 3; LAB: 2)  
Prereq: MAT 1800, PHY 1140. Operational amplifiers, circuit and applications; summing and subtracting amplifiers; integrating and differentiating amplifiers; comparators. Design of active filters, oscillators and waveform generating circuits, and audio integrated circuits. Material fee as indicated in the Schedule of Classes.  
(F,W)

3500 Electrical Machines and Power Systems. Cr. 3 (LCT: 2; LAB: 2)  
(I)

3720 Micro and Programmable Controllers. Cr. 3 (LCT: 2; LAB: 2)  
Prereq: EET 2720, CSC 1050. Microprocessors and Programmable logic controllers; on-chip I/O resources, interfacing; controls, instrumentation, and communication; data manipulation and sequencer instruction set; development and debugging tools. Material fee as indicated in the Schedule of Classes.  
(F,W)

4100 Computer Hardware Design. Cr. 3 (LCT: 2; LAB: 2)  
Prereq: EET 3100, 2720. Structural organization and hardware design of digital computers. Register transfer, microoperations, and microprogram control. Processing and control units, arithmetic algorithms, input-output systems, and memory systems.  
(Y)

4200 Control Systems. Cr. 4 (LCT: 3; LAB: 2)  
Prereq: E T 3030, E T 3450; EET 3010 or EET 3150. Feedback control systems with topics in time response, stability criteria, system representation, frequency response, compensation. Simulation of electrical and mechanical systems. Material fee as indicated in the Schedule of Classes.  
(F,W)
ENGINEERING TECHNOLOGY COURSES

4300 Electromagnetic Fundamentals and Design. Cr. 3 (LCT: 3)

4400 Electronic Communications. Cr. 3 (LCT: 3)
Prereq: E T 3450, EET 3150. Analog and digital waveform, waveform spectra, filtering of signals. Communication theories and systems, amplitude modulation, angle modulation, and pulse modulation. Introduction of digital communication and fiber-optic communication. (I)

4600 Power Electronics. Cr. 3 (LCT: 3)
Prereq: EET 3150, E T 3450. Understanding different types of power semiconductor devices; analysis of topologies of uncontrolled and controlled converters, dc-dc converters. Simulation of power converters and application of power converter technologies in industrial and utility applications. (Y)

4990 Guided Study. Cr. 1-6 (Max. 6) (IND: 1)
Prereq: consent of instructor. Supervised study and instruction in field selected by student. (I)

5720 Computer Networking Applications. Cr. 4 (LCT: 3;LAB: 2)
Prereq: EET 3100, 3720. Networking protocols, components, architecture, and standards. Data communication, data packet structure, data transmission methods and techniques, network topologies, and media access control methods. Material fee as indicated in the Schedule of Classes. (Y)

6150 Machine Vision in Manufacturing. Cr. 4
Prereq: E T 3850, PHY 2140. Machine vision concepts, image applications in robotics, digital vision systems, vision acquisition and processing, pattern recognition and texture analysis, cameras and software tools. (I)

6300 Industrial Laser Applications. Cr. 4
Prereq: E T 3450, PHY 2140. Laser technology, industrial and medical applications, lasers in electronic fabrication. Laser metrology, integrated optics, laser maintenance and safety. (I)

MANUFACTURING/INDUSTRIAL ENGINEERING TECHNOLOGY COURSES (MIT)

3350 Applied Human Factors. Cr. 3 (LCT: 3)
Introduction to human physiological and psychological functions and capabilities from an engineering viewpoint; sensory information processing and motor abilities, human-machine design aspects. (Y)

3500 Machine Tool Laboratory. Cr. 1 (LAB: 3)
Prereq: E T 1140. Laboratory experiences in manufacturing processes, machine tools, and mechanization. Calibration and part-setup. (F,W)

3510 Manufacturing Processes. Cr. 3 (LCT: 2;LAB: 3)

3600 Process Engineering. Cr. 3 (LCT: 3)

4220 Methods Analysis and Time Study. Cr. 3 (LCT: 3)
Prereq: MIT 3510. Development of the fundamental concepts and approaches of time and motion study; application of the principles of motion economy. (I)

4320 Production and Inventory Management. Cr. 3 (LCT: 3)
Prereq: E T 3850, MIT 3510. Basic production scheduling and inventory management. Production planning, project management, inventory functions, and inventory costs. (Y)

4700 Computer-Aided Design and Manufacturing. Cr. 3 (LCT: 2;LAB: 2)
Prereq: E T 2140, MIT 3510. Fundamentals of computer-aided manufacturing using computer software. Two- and three-dimensional applications programming, numerical control and programming. Material fee as indicated in the Schedule of Classes. (Y)

4800 Quality Control. Cr. 4 (LCT: 4)
Prereq: E T 3850. Introduction to total quality systems design and to basic analytical techniques for quality control. (I)

4990 Guided Study. Cr. 1-6 (Max. 6) (IND: 1)
Prereq: consent of instructor. Supervised study and instruction in the field selected by the student. (I)

5500 Machine Tool Laboratory. Cr. 1 (LAB: 3)
Prereq: E T 1140. Laboratory experiences in manufacturing processes, machine tools, and mechanization. Calibration and part-setup. (F,W)

MECHANICAL ENGINEERING TECHNOLOGY COURSES (MCT)

3100 Mechanics of Materials. Cr. 3 (LCT: 2;LAB: 2)
Prereq: E T 3030; coreq: E T 3430. The elastic behavior of load bearing materials. Tension, compression, shear, combined stress, bending, torsion and columns. Failure analysis. Material fee as indicated in the Schedule of Classes. (F,W)

3150 Applied Thermodynamics. Cr. 4 (LCT: 3;LAB: 2)
Prereq: E T 3430, PHY 2130, CHM 1020. First and second laws of thermodynamics; power and refrigeration cycles; gas and vapor mixtures, nozzle and blade passage flow and combustion. Introduction to compressible flow. Direct energy conversion. Material fee as indicated in the Schedule of Classes. (Y)

3180 Fluid Mechanics. Cr. 4 (LCT: 3;LAB: 2)
Prereq: E T 3030; coreq: E T 3450. Properties of fluids, fundamentals of fluid flow, dimensional analysis and similarity, and flow measurement techniques. Analysis of hydrostatic equipment, hydrokinetic equipment and systems. Introduction to network analysis and calculation. (Y)

3410 Kinematics and Dynamics of Machines. Cr. 3 (LCT: 2;LAB: 2)
Prereq: E T 2140, E T 3030. Velocity and acceleration of moving parts in machine elements and mechanisms; cam, gear, and gear train design; static and inertial forces, balancing, gyroscopic effects, and critical speeds. (F,W)

4210 Heat Transfer. Cr. 4 (LCT: 3;LAB: 2)

4230 Heating, Ventilation, and Air Conditioning. Cr. 3 (LCT: 3)
Prereq: MCT 3150, 3180, or 4210. Psychrometry: air and humidity calculations; heat transfer and transmission coefficients; heating and
cooling loads; physiological considerations; air distribution systems; building energy use optimization and ASHRAE standard.

4400  Design of Machine Elements. Cr. 3 (LCT: 3)
Prereq: MCT 3100, 3410. Fundamental concepts in the design of the separate elements which compose the machine; application of properties and mechanics of materials modified by practical considerations. (Y)

4990  Guided Study. Cr. 1-6 (Max. 6) (IND: 1)
Prereq: consent of instructor. Supervised study and instruction in the field selected by the student. (I)

GREENFIELD COALITION CHEMISTRY COURSES (GCC)
NOTE: All GCC courses below are open only to students in the Focus:HOPE/Greenfield Coalition BSMFT Program.

0900  Orientation and Teaming. Cr. 0
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to the concept of working in teams, presentation of ideas for developing appropriate study skills and for time management, discussion of strategies for writing and taking tests, introduction to reference searches using the library and Internet, and review of basic computer skills for opening files and using the network. (Y)

1011  Basic Chemistry I: Reactions. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Prereq: GCM 1011. The scope of chemistry, chemical reaction/measurement, mass, weight and density, temperature, periodic table, factor-label method. (Y)

1021  Basic Chemistry II: Solutions. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Prereq: GCC 1021, GCF 1031; coreq: GCM 2141. Chemical equilibria and chemical kinetics. Introduction to concepts of entropy and Gibbs free energy. The importance of metastable states in material science and the application of rate laws are discussed. Strong emphasis on heterogeneous and solid-state reactions. (Y)

2011  Chemistry/Materials Science I: Chemical Equilibria and Kinetics. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Prereq: GCC 2011. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Continuation of GCC 2011 and the development of fundamental chemical principles. (Y)

GREENFIELD COALITION ENGINEERING COURSES (GCE)
NOTE: All GCE courses below are open only to students in the Focus:HOPE/Greenfield Coalition BSMFT Program.

2261  Control Elements in Manufacturing Systems. Cr. 1
Prereq: GCT 1221. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. An overview of control systems and study of the application of sensors and actuators in control systems, digital logic, and programmable logic controllers. (Y)

2411  Manufacturing Planning I. Cr. 1
Prereq: GCF 1021. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to manufacturing economics, basic concepts of direct and indirect costs, and time value of money. Basic organization tools, such as linear programming, used to model manufacturing optimization problems. Inventory control and the tradeoffs involved in holding inventory. (Y)

2421  Manufacturing Planning II. Cr. 1
Prereq: GCE 2411. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Material requirements planning, basic dynamics of material requirements planning, the basic lot sizing techniques used in MRP, and the difference between MRP and other release control techniques such as kanban. (Y)

2461  Engineering Economics I: Concepts. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Fundamental and advanced concepts of engineering: framework of economic analysis, equivalence, interest factors, payments, annuities, and rates; economic evaluation of singular or pairwise manufacturing engineering projects: equivalent uniform annual cost, present worth, internal rate of return, pay-off, and comparative analysis. (Y)

2471  Engineering Economics II: Economic Evaluation. Cr. 1
Prereq: GCE 2461. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Economic evaluation of independent, multiple, and mutually exclusive projects in manufacturing engineering. (Y)

3011  Engineering Materials III. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Inspection and testing, heat treatment, and adhesives and coating of engineering materials. Simple preparation techniques for microstructure examination and mechanical testing and testing procedures, the effect of heat treatment on microstructure and properties of metals, and the basics of inorganic coating, polymeric coatings and adhesives. (Y)

3261  Advanced Control Elements in Manufacturing Systems. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to computer numerical controls and linear systems. Mathematical foundation for control systems, presentation of case studies and student projects. (Y)

3271  Control System Analysis and Design: PID Control. Cr. 1
Prereq: GCE 3261. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Feedback control: time domain techniques, frequency domain techniques, PID controls, case studies and projects. (Y)

3312  Manufacturing Systems I: Management, Planning, Executing Change. Cr. 2
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to dynamics behind creating new products and operating enterprises which produce it; methods to harness new technologies of greatest benefit and aligning these technologies with basic business models; development of confidence and leadership qualities to carry out implementations. (Y)

3332  Manufacturing Systems II: Human Factors and New Operational Models. Cr. 2
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to human factors related to success of manufacturing operations. Assessment of effects of working environments on employee efficiency, loyalty, productivity, creativity and enthusiasm. Current issues and developments in manufacturing technologies and theory. Application of new operational models to the design of traditional manufacturing systems. (Y)

3461  Engineering Economics III: Depreciation and Investment Decisions. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Depreciation accounting for capital goods procured for manufacturing operations. Income tax consequences for various accounting methods and the analysis of investment opportunities in
manufacturing processes where information on likely outcomes is either imperfect or incomplete. Development of comprehensive case study comprising data collection, analysis, interpretation and conclusions.

GREENFIELD COALITION FUNDAMENTALS COURSES (GCF)

NOTE: All GCF courses below are open only to students in the Focus:HOPE/Greenfield Coalition BSMFT Program.

1011 Introduction to Computers in Engineering I: Operating Systems. Cr. 1
Prereq: GCM 1021. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Preparation for computer usage. Basic computer knowledge, skills in several applications, and background in programming. Introduction to computer basics, operating system and hardware. (Y)

1021 Introduction to Computers in Engineering II: Software Packages. Cr. 1
Prereq: GCF 1011. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Continuation of GCF 1011. Basic computer knowledge, skills in several applications, background in programming; introduction to word processing and spreadsheets. (Y)

1031 (CL) Introduction to Computers in Engineering III: Visual Basic. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Satisfaction of Computer Literacy requirement only upon satisfactory completion of the 3-course sequence GCF 1011, 1021, and 1031. Continuation of GCF 1021. Introduction to visual basic. (Y)

1101 Basic Graphics. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to the operation of Unigraphics for manufacturing applications software. CAD/CAM/CAE, the concurrent engineering process, vehicle design creation, and the manufacturing transition. (Y)

1113 Introduction to Design Graphics. Cr. 3
Prereq: GCF 1011 - 1031 and GCF 1101. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to computer process used in design graphics and the coupling needed between design and manufacturing. Visualization, generation of design geometry using 3-dimensional solids as the geometry primitives; control and utilization of design geometry, the design-graphics process, and the CAD to CAM process including data base type of tracking and validation of processes, including process planning, materials, feature, etc. (Y)

3211 Kinematics of Machines: Basic Concepts. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Definitions, terminologies and fundamental concepts in kinematics essential to mechanical functions of manufacturing. Systematic approaches for determining the position, velocity and acceleration of any point on a linkage mechanism. (Y)

3221 Kinematics of Machines: Cam Design and Gear Trains. Cr. 1
Prereq: GCF 3211. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Systematic approach to the design of cam and cam-follower systems and analyzing dynamic characteristics of cam and cam-follower systems; theory of gear tooth action and the design of gear trains for motion control. (Y)

3231 Kinematics of Machines: Kinetics and Balancing. Cr. 1
Prereq: GCF 3111-3141. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Theoretical approaches to determining the forces present in moving mechanisms and machinery; mathematics for determining and designing statically or dynamically balanced rotating elements; integration of concepts; analysis of the kinematics and dynamics of a crank-mechanism driven cut-off saw. (Y)

GREENFIELD COALITION LIBERAL ARTS COURSES (GCL)

NOTE: All GCL courses below are open only to students in the Focus:HOPE/Greenfield Coalition BSMFT Program.

1011 Fundamentals of English Composition: Writing Strategy. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Steps in the writing process, using strategies for setting objectives, planning, drafting, testing, revising, editing, and proofreading. Writing the extended definition, a functional description, and a set of instructions or a process description with appropriate graphics, terminology, and format for designated audiences and purposes. (Y)

1021 Fundamentals of English Composition: Memos, Reports, Letters. Cr. 1
Prereq: GCL 1011. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Writing report segments based on rhetorical patterns, writing memos and short reports, revising and editing reports; application of strategies for locating information for investigative research reports. (Y)

1031 (BC) Fundamentals of English Composition: Essays and Visuals. Cr. 1
Prereq: GCL 1021 Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Satisfies Basic Composition requirement only upon satisfactory completion of the 3-course sequence GCL 1011, 1021, and 1031. Writing well structured and developed informative and persuasive essays; introduction to development and use of visual aids. (Y)

1211 Psychology with Sociology I: Methods, Learning, and Memory. Cr. 1
Prereq: GCL 1021. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Methods used in the social sciences compared and contrasted with methods used in the physical sciences and engineering. Learning and memory principles. Classical conditioning and instrumental training, principles and strategies of concept learning. Accessible on the Internet using a web browser. (Y)

1221 Psychology with Sociology II: Physiological and Sensory Psychology. Cr. 1
Prereq: GCL 1211. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Central and peripheral nervous systems, ducted and ductless glands, and basic genetics. The senses of vision, hearing, and smell including anatomy, usual stimuli, and particular aspects of each. Sensory damage and safety issues in the industrial environment. Accessible on the Internet using a web browser. (Y)

1231 Psychology with Sociology III: Human Growth, Development and Personality. Cr. 1
Prereq: GCL 1221. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to human growth and development. Structure and formation of human personality. Developing awareness of normal maturation process with family, friends, and co-workers. Interaction of personality types and team work studied to facilitate understanding of teams within which participants function. Accessible on the Internet using a web browser. (Y)

1241 (LS) Psychology with Sociology IV: Social Psychology and Sociology. Cr. 1
Prereq: GCL 1231. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Satisfies Life Science and Laboratory requirements only upon satisfactory completion of the 4-course sequence GCL 1211, 1221, 1231, and 2141. Basic functioning of
groups at work and outside of work; attitude and prejudice formation and change, the process of influence and group dynamics. Introduction to social structure, processes, conflict, and change and the application of knowledge in these areas. Accessible on the Internet using a web browser. (Y)

**2011 Communications in Manufacturing I: Fundamentals of Communications. Cr. 1**
Prereq: GCL 1011 and 1021. Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Theories of communication, persuasion, organizational communication, effective communication opportunities and obstacles, and the ethics of communication. (Y)

**2021 Communications in Manufacturing II: Methods of Communication. Cr. 1**
Prereq: GCL 2011. Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Planning effective communication strategies for the written word, spoken word, and nonverbal communication as well as handling potential conflict. (Y)

**2031 (IC) Communications in Manufacturing III: Technical Presentations. Cr. 1**
Prereq: GCL 1021. Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Satisfies Intermediate Composition requirement only upon satisfactory completion of the 3-course sequence GCL 2011, 2021, and 2031. Project proposals and technical presentations. Introduction to effective use and preparation of traditional and non-traditional media presentations. (Y)

**2614 Comparative Politics and Economics. Cr. 4**
Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Preparation for participation in globalization issues. Integration of social, political, and economic knowledge for a manufacturing company’s expansion in the global market. Team building, research strategies, project planning, cultural understanding, comparative political systems, economic development models, and comparative economic systems. (Y)

**3013 (OC) Technical Communications in Manufacturing. Cr. 3**
Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Satisfies Oral Communication requirement only upon satisfactory completion of the 3-course modules. Review of communication theory, semantics, effective strategies for composition and principles of proposal writing; fundamentals of technical writing, design of manuals and documentation and strategies for composing definitions, descriptions, instructions, procedures, and process explanations. (Y)

**3511 Arts in Action: Ways of Seeing. Cr. 1**
Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Foundation of the appreciation of visual art as it transforms the world into a cultural laboratory. How visual images work, implications of how art is used and is defined depending on usage. Application of the principles, elements, and structure of visual art to view and interpret the urban landscape. (Y)

**3521 Arts in Action: Construction Zones. Cr. 1**
Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Foundation for working with music video. Introduction to design elements audio/visual matching/contrasting picture form as content, rhythm as a structural element, iconography as meaning. Visualization of music. Development of basic mini keyboard skills for understanding fundamental elements of musical composition. Course project. (Y)

**3531 (VP) Arts in Action: Performance and Plays. Cr. 1**
Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Satisfies Visual and Performing Arts requirement only upon satisfactory completion of the 3-course sequence GCL 3511, 3521, and 3531. Principles of theatrical adaptation of other art forms. Study of theatre companies and their productions and how they communicate with their communities. (Y)

**3611 Global Cultural and Philosophy: Basics of Cultural Study. Cr. 1**
Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Importance of culture in behavior and perception between peoples, the role of language in the transmission of cultural barriers to intercultural interaction and understanding, establishing frames of reference, and introduction to Japanese and Mexican cultures. (Y)

**3621 Global Culture and Philosophy: Japan Cr. 1**
Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Study of the mythic, early, and recent history of Japan: culture, religion, philosophy and language. (Y)

**3631 (FC) Global Culture and Philosophy: Mexico. Cr. 1**
Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Satisfies Foreign Culture requirement only upon satisfactory completion of the 3-course sequence GCL 3611, 3621, and 3631. Study of the mythic, early, and recent history of Mexico: culture, religion, philosophy and language. (Y)

**GREENFIELD COALITION MATHEMATICS COURSES (GCM)**

**NOTE: All GCM courses below are open only to students in the Focus: HOPE/Greenfield Coalition BSMFT Program.**

**1011 Technical Mathematics: Quadratics and Functions. Cr. 1**
Prereq: placement. Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Methods of solving quadratic equations, factorable quadratics, roots, completing the square and the quadratic formula; discriminates; complex roots, inequalities, critical values. Definitions, domain, range, relations; operations, one-to-one, inverse functions; graphing, properties of curves, interpreting graphs. (Y)

**1021 Technical Mathematics: Linear Equation Systems, Logarithms, and Exponents. Cr. 1**
Prereq: GCM 1011. Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Systems of 2 and 3 linear equations; Cramer’s Rule, second and third order determinants; algebraic and graphical solutions. Graphing of exponential growth and decay; conversions, natural logarithms, basic laws of logarithms, change of base. (Y)

**1031 Technical Mathematics: Analytical Geometry. Cr. 1**
Prereq: GCM 1021. Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Equations of lines; distance formula, midpoint formula, angle of inclination; parallel and perpendicular lines; inequalities. Closed conic shapes, equations and properties of circles and ellipses; open conic shapes, equations and properties of parabolas and hyperbolas. (Y)

**1041 Technical Mathematics: Trigonometry. Cr. 1**
Prereq: GCM 1031. Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Angular measure; right-angle trigonometry, definition of trigonometric functions, signs of functions in quadrants, special angles; laws of sines and cosines. Areas of sectors and segments, arc length; graphing of trigonometric functions; fundamental identities, sum and difference formulas, double-angle and half-angle formulas; trigonometric equations. (Y)

**1051 Technical Mathematics: Vector Algebra. Cr. 1**
Prereq: GCM 1041. Open only to students in Focus: HOPE/Greenfield Coalition BSMFT Program. Vector definition, properties of vectors, scalar quantities; 2D vectors, graphical addition and subtraction, rectangular components, vectors in polar coordinates; 3D vectors, Cartesian components, vectors in spherical coordinates. Orthogonal vectors; dot and cross products; DeMoirve’s theorem; unite vectors, exponential forms, complex numbers in vector form; parametric equations. (Y)
2111 Differential Calculus I: Limits, Derivatives and Derivative Rules. Cr. 1
Prereq: GCM 1011 - 1051. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Limits of functions, slope of tangent to a curve, the normal to a curve, properties and meaning of the derivative, derivative as an instantaneous rate of change, derivative of polynomials. Derivative rules: derivative of products and quotients of functions, derivative of a power of a function, implicit differentiation, higher order derivatives. (Y)

2121 Differential Calculus II: Applications of the Derivatives; Curves. Cr. 1
Prereq: GCM 2111. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Tangents and normals, curvilinear motion, related rates. Minimum and maximum Curve sketching; using derivatives in curve sketching, applied maximums and minimums, problems in differential forms. (Y)

2131 Integral Calculus I: The Integral and Numerical Integration. Cr. 1
Prereq: GCM 2121. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Antiderivatives, indefinite integrals, area under a curve, definite integrals. The trapezoidal rule, Simpson's Rule, interpretation of numerical results, and the application of the indefinite integral. (Y)

2141 Calculus of Transcendental Functions. Cr. 1
Prereq: GCM 2131. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Derivative of trigonometric functions, inverse trigonometric functions, logarithmic functions, exponential functions, and applications. General power formula; integrals of trigonometric forms, basic logarithmic forms, exponential form; integration by parts; using tables of integration. (Y)

2412 Manufacturing Statistical Methods I. Cr. 2
Prereq: GCM 1041. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Multimedia instruction in the use of statistical methods in manufacturing. Problem-solving tools, descriptive statistics, data collection, control charts, process capability and tolerancing systems. Statistical computer packages used and field studies required. (Y)

2431 Manufacturing Statistical Methods II. Cr. 1
Prereq: GCM 2411. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Multimedia instruction in the use of statistical methods in manufacturing. Hypothesis testing and regression analysis. Statistical computer packages used and field studies required. (Y)

3151 Applied Integral Calculus. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Study of integration by parts, partial fractions, substitution, and trigonometric identities. Sum and difference of two integrals, area between two curves, volumes of figures of revolutions, Theorem of Pappus, average value, and applications in force, pressure, and work. (Y)

3161 Applications of Infinite Series in Calculus. Cr. 1
Prereq: GCM 3151. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Study of infinite and power series and the application of these in solving engineering problems. (Y)

3171 Applied Multivariate Calculus. Cr. 1
Prereq: GCM 3161. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Study of differentiation of several variables and the integration of functions of two variables. (Y)

3181 Foundations of Differential Equations. Cr. 1
Prereq: GCM 3171. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Terminology; separable equations; linear first order differential equations, homogeneous equations; solving differential equations. Initial value problems; Newton's law, free and damped vibrations (Y)

3191 Applications of Calculus. Cr. 1
Prereq: GCM 3181. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Calculus notations of conic sections, Cartesian and polar coordinates; translation and rotation of axes; graphs of functions in two variables. Characteristics and properties of Laplace transforms, inverse Laplace transforms; Laplace transform methods of solving initial value problems; applications in electrical circuits and control systems. (Y)

GREENFIELD COALITION SCIENCE COURSES (GCS)

NOTE: All GCS courses below are open only to students in the Focus:HOPE/Greenfield Coalition BSMFT Program.

2111 Mechanophysics I: Motion and Forces. Cr. 1
Prereq: GCM 1011 and 1031. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to basic physics concepts related to motion and forces. No prior experience in physics required. Units of conversion, displacements, velocity and acceleration, equations of motion and equilibrium. (Y)

2121 Mechanophysics II: Static Equilibrium. Cr. 1
Prereq: GCS 2111. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to basic physics concepts related to the static equilibrium of forces and load supporting elements. Particle equilibrium, rigid body equilibrium of motion, free body diagrams, shear forces and bending moments in beams and truss analysis. (Y)

2131 (PS) Mechanophysics III: Introduction to Kinematics. Cr. 1
Prereq: GCS 2121. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Satisfies Physical Science requirement only upon satisfactory completion of the 3-course sequence GCS 2111, 2121, and 2131. Introduction to the engineering analysis of moving mechanical components. Kinematics of translation and rotation in the context of machine elements. Translation and rotation of rigid body, coriolis effect, vectors and motion, velocity and mechanisms, and acceleration and mechanisms. (Y)

2141 Introduction to Engineering Mechanics. Cr. 1
Prereq: GCS 2131. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to vibrations of mechanical systems and the basic concepts of structural analysis. (Y)

2211 Thermoscience. Cr. 1
Prereq: GCM 1041 and 2131. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to laws of thermodynamics, fluid mechanics, and heat transfer. Fluid density, pressure, and viscosity; fluids at rest, conservation of mass; Bernoulli equation; temperature scales; thermal expansion of liquids and solids; heat transfer; specific heat and heats of transformation; kinetic theory of gasses. (Y)

2311 Electrostatics. Cr. 1
Prereq: GCM 1011. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Fundamental principles of electrostatics which includes Coulomb's law, electric fields, potential difference and case studies. (Y)

2321 DC - Circuit Analysis. Cr. 1
Prereq: GCS 2311. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Concepts of DC - analysis which includes Ohm's Law, Kirchoff's Law, node-voltage, mech current, superposition, voltage and current division rules and source transformation. (Y)
3231 Electromagnetism, Inductance, and Capacitance. Cr. 1
Prereq: GCS 2321 and GCM 2131. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Functioning of many devices and everyday applications employing the principles of electromagnetism and/or inductors or capacitors. Magnetic force, sources of magnetic field, induced Emf, inductance, and capacitance. (Y)

3111 Mechanics for Engineering Technology I. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to the section properties of mechanical elements and their relationship to strength, and the properties of mechanical elements. Centroid, inertia and their relation to kinetics. (Y)

3211 Mechanics for Engineering Technology II. Cr. 1
Prereq: GCS 3111. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to concepts of power and energy and how they relate to translating and rotating objects. (Y)

3131 Engineering Mechanics: Solid Mechanics I. Cr. 1
Prereq: GCS 3121. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to mechanics of deformable bodies, comprising axial loads, beam bending, torsion and twist of circular rods, and the mechanical properties of materials. (Y)

3141 Engineering Mechanics: Introduction to Mechanical Vibrations. Cr. 1
Prereq: GCS 3131. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to vibrations of mechanical systems, comprising simple undamped and damped free and forced vibrations; mode shapes and frequencies. (Y)

3211 Thermodynamics for Manufacturing Engineers. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. First and second laws of thermodynamics and associated applications. Heat and work, internal energy and enthalpy, engine operations, energy conservation in machining operations, p-v-T diagrams and thermodynamic tables, entropy, and power and refrigeration cycles. (Y)

3221 Fluid Mechanics for Manufacturing Engineers. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to fluid properties. Forces on submerged objects, buoyancy. Equations of fluid statics. Manometer, hydrostatics and other fluid machines. Introduction to fluid flow, Bernoulli’s equation, internal fluid flow, Couette and Poiseuille flow. Lubrication phenomena and Reynolds equation. Chemistry of cutting fluids. Viscosity and density variation with temperature, phase diagrams, organic and inorganic fluids. Fluid degradation. (Y)

3231 Heat Transfer for Manufacturing Engineers. Cr. 1
Prereq: GCS 3211. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to modes of heat transfer. Conservation of energy and heat transfer. Conduction through plane and cylindrical walls, conduction through extended surfaces. Transient conduction for lumped and one-dimensional systems. Dimensional analysis. Relations for internal, external, forced and natural convection, and phase changes. Radiation heat transfer relations for environmental gray surfaces in an enclosure. (Y)

3241 Thermal Aspects of Manufacturing Processes. Cr. 1
Prereq: GCS 3211-3231. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Applications of thermal science fundamentals to industrial processes. Introduction to concentric tube, shell and tube, and crossflow heat exchangers; thermal expansion and contraction and effects on tolerances; heat generation and dissipation in cutting operations; heat treatment and metal forming; welding heat transfer; heat transfer and fluid flow in casting. (Y)

3311 AC Circuit Analysis and Topics in Electronics. Cr. 1
Prereq: GCM 3181. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to concepts of AC - circuit, sinusoidal waveform, complex algebra, phasors, power calculations and measurements, power factor, and transformers. Operations and applications of electronics elements like diode and operational amplifier. (Y)

GREENFIELD COALITION TECHNOLOGY COURSES (GCT)

NOTE: All GCT courses below are open only to students in the Focus:HOPE/Greenfield Coalition BSMFT Program.

1111 Machining Processes I: Cutting Technology. Cr. 1
Prereq: GCF 1131 and GCM 1031. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to basic machine tool operations and material removal technology. The geometry of cutting tools. (Y)

1121 Machining Processes II: Process Technology. Cr. 1
Prereq: GCM 1031, GCS 2121 and 2211. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Technological perspective on the process technology associated with material removal. Cutting tool mechanics, mathematical process relations, cutting fluids and process planning. (Y)

1211 Foundations of Measurements. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Presentation of terminology, procedures, and capabilities of devices used in the field of measurement, and introduction to measurement statistics. (Y)

1221 Instrumentation. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Study of instrumentation used in manufacturing environments. Overview of control system terms, discrete/binary signals, analog signals, multiplexed signals, analog to digital conversion, and programmable logic controllers. (Y)

2011 Engineering Materials I. Cr. 1
Prereq: GCM 1021. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Study of many types of materials used in current technology. Metals, ceramics, and polymers studied in terms of their properties, processing and applications. Individual projects. (Y)

2021 Engineering Materials II. Cr. 1

2111 Manufacturing Processes I. Cr. 1
Prereq: GCT 1221 and 2021. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to issues of product quality and tolerances, manufacturing processes for casting and various influences of secondary operations such as machining and metal forming processes. (Y)

2121 Manufacturing Processes II. Cr. 1
Prereq: GCT 2111. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to manufacturing joining processes including various types of welding, brazing and soldering. Heat flow in the work piece, weld microstructure, and weld discontinuities. (Y)

2181 Tool Design I. Cr. 1
Prereq: GCT 2021, 1121, and GCF 1131. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Tool design methods, tool-work interaction, tool materials and work holding principles. (Y)
2191 Tool Design II. Cr. 1
Prereq: GCT 2181. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Design of drill jigs, design of fixtures, and tool design guide. (Y)

2211 Electrical Machines I. Cr. 1
Prereq: GCS 2321. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to theoretical and practical knowledge of DC/AC circuit analysis, industrial electric power specifications, and industrial transformers. (Y)

2313 Manufacturing Systems I: Fundamentals and Analysis Tools. Cr. 3
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to manufacturing systems design. Fundamentals of manufacturing systems design, graphical analysis tools, and mathematical analysis tools. (Y)

2341 Manufacturing Systems II: Communications. Cr. 1
Prereq: GCT 2313. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to manufacturing systems design. Data communications and networks. (Y)

2451 Ethics and Industry I. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to ethical issues confronting engineers and related to industry. (Y)

2461 Ethics and Industry II. Cr. 1
Prereq: GCT 2451. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Continuation of GCT 2451 with case studies focusing on engineering ethics. (Y)

2511 Design Project. Cr. 1
Prereq: fifty credits and two job rotations. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Design project incorporating fundamentals learned in previous courses. The design process emphasized from the establishment of objectives and analysis of alternative solutions to a final evaluation and recommendation. Final written and oral report required; use of manufacturing facility in production of design is encouraged. (Y)

3111 Machining Processes III: Production Technology. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Review of the technological basis for the production of machined parts. Preparation, selection and optimization of production processes are considered. Tool wear and life, process estimating, economics of metal cutting, non-traditional machining, and time studies. (Y)

3131 Introduction to Joining. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to methods of joining: electric arc, thermomechanical, and radiation welding and fasteners. (Y)

3151 Materials Forming I. Cr. 1
Prereq: GCE 3011, GCS 3111 and 3131. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to bulk deformation processes, safety issues and the mechanics of metal forming. (Y)

3161 Materials Forming II. Cr. 1
Prereq: GCT 3151. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to sheet metal forming and cutting processes. (Y)

4111 Computer-Aided Manufacturing I. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to computer software, EIA standard programming code, and two- and three-dimensional applications with emphasis on Center for Advanced Technologies systems. (Y)

4121 Computer-Aided Manufacturing II. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Numerical control and programming. (Y)

4131 Computer-Aided Manufacturing III. Cr. 1
Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Introduction to rapid prototyping of parts. (Y)

4513 Engineering Technology Design Project. Cr. 3
Prereq: senior standing. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Development and presentation of design project carried out in the workplace. Validation of learning and absorption of competencies in engineering technology design. (Y)

4990 Independent Study. Cr. 1-6
Prereq: approved outline of proposal prior to registration. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. Supervised study and instruction in the field selected by the student. (Y)

4995 Special Topics. Cr. 1-6
Prereq: consent of instructor. Open only to students in Focus:HOPE/Greenfield Coalition BSMFT Program. (Y)
COLLEGE OF FINE, PERFORMING
and COMMUNICATION ARTS

DEAN: Linda L. Moore
Foreword

Mission Statement
The College of Fine, Performing and Communication Arts at Wayne State University provides quality education for practitioners, scholars, audiences and critics in art and art history, communication, dance, music and theatre. This education leads to careers, implementation of the arts in other disciplines, enhanced critical abilities, the enrichment of everyday life and the building of new generations of artists, professionals and scholars. Programs of study focus on the integration of theory and practice through the creation, discovery, preservation and transmission of knowledge in fine, performing and communication arts.

The College serves the University and the larger community by creating partnerships that emphasize its own rich, diverse curriculum, interdisciplinary studies, reciprocal professional interaction and outreach activities appropriate to each area of work. Special emphasis is placed on forging alliances with local, state and national constituencies such that the College is both a leader and a resource providing expertise, information and guidance.

Within an appropriate and attractive academic environment the College promotes an atmosphere conducive to intellectual and artistic growth, risk-taking and personal and professional development at all levels in both individual and collaborative endeavors.

As the cultural conscience of the University, the College provides public events and curricular offerings that nurture creative development, enrich aesthetic values and sensitivity, heighten awareness of the arts experience and reflect the disciplinary diversity of its areas of study. Diversity, whether cultural, ethnic or gender, is an important commitment of the College in public events and educational efforts.

Ultimately, the mission of the College is to focus on the integration of theory and practice through the creation, discovery, preservation and transmission of knowledge in the fine, performing and communication arts.

Campus Resources: Traditional courses of study are augmented by a variety of performance and presentation resources considered integral to many of the creative programs. Included in these are the Bonstelle Theatre, the Wayne State University Dance Company, the Symphonic Band and University Orchestra, the Intercollegiate Debate Team, plus exhibitions in the Elaine L. Jacob Gallery and the Community Arts Gallery that often feature work created by students and studio faculty. These are only a few of the campus resources that are especially important for majors in the College. A more comprehensive listing can be found under each of the specific departments.

Detroit Resources: The proximity of the Wayne campus to institutions of the Detroit Cultural Center (which includes the Detroit Institute of Arts and the Detroit Symphony Orchestra, among other institutions) provides further unique and enriching benefits for students; professional staff members of these institutions often serve as adjunct faculty in College of Fine, Performing and Communication Arts programs. Nearby, too, are major print and electronic communications resources that similarly provide both adjunct faculty and professional assistance to other programs in the college.

DEGREE PROGRAMS

BACHELOR OF ARTS with majors in art, art history, fashion design and merchandising, film studies, journalism, media arts and studies, music, public relations, speech communication, theatre

BACHELOR OF FINE ARTS with majors in art, dance, theatre

BACHELOR OF MUSIC with concentrations in composition/theory, jazz studies, music education, music management, music technology, performance

BACHELOR OF SCIENCE with majors in dance, fashion design and merchandising

*MASTER OF ARTS with majors in art, art history, communication, design and merchandising, music, theatre

*MASTER OF MUSIC with concentrations in composition/theory, conducting, music education, performance

*MASTER OF FINE ARTS with majors in art, theatre

*DOCTOR OF PHILOSOPHY with majors in communication, theatre

*GRADUATE CERTIFICATE IN ORCHESTRAL STUDIES

* For specific requirements, see the Wayne State University Graduate Bulletin.
BACHELOR’S DEGREE REQUIREMENTS

Credits
A candidate for a Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, or Bachelor of Science degree must complete at least 120 credits. Certain curricula may require additional credits. (See ‘Restrictions on Credit,’ below.)

General Education Requirements
University-wide general education requirements are designed to enhance students’ basic skills and the diversity of their intellectual background. These requirements assure minimal competence in those skills needed to succeed in college and professional life and provide a selective introduction to the increasingly broad range of academic disciplines represented at the University. They serve to emphasize the fundamental means and essential knowledge required for continuing self-education and intellectual growth.

Beginning with the Fall semester of 1987, all first-semester freshmen entering the College of Fine, Performing and Communication Arts and all students who transfer twelve or fewer credits into the College are required to satisfy the University General Education Requirements (see page 23) and, for students in Bachelor of Arts degree programs, the following foreign language requirement:

Foreign Language Requirement: All students pursuing the Bachelor of Arts degree in the College of Fine, Performing and Communication Arts must successfully demonstrate proficiency equivalent to the three-course basic sequence in a single foreign language. Proficiency is proved by completing courses numbered 1010 (1100, 1110), 1020, and 2010 in the following subject areas: ARB, ARM, CHI, FRE, GER, GRK, HEB, ITA, JPN, LAT, POL, RUS, SPA, SWA, and UKR; as well as GRK 1110, 1120, and 2110. Those students continuing in the study of a foreign language begun in high school or at another college will be placed at an appropriate level in the sequence, as determined by means of qualifying examinations or interviews administered by the various language departments of the University, and must complete the sequence to demonstrate proficiency.

The College Foreign Language Requirement will be considered satisfied by those students whose test scores place them beyond the intermediate (third course) level.

Students may satisfy the University General Education Requirement in Foreign Culture by successfully completing a three-course sequence (through 2010 or 2110) in a single foreign language.

Bilingual Students: The College Foreign Language Group Requirement will be considered satisfied for students who were born in and completed their secondary education in a country whose language is not English. However, no credit (through course work or by examination) will be granted for elementary- or intermediate-level courses in that language. Bilingual students who satisfy the Foreign Language Group Requirement in this manner will simultaneously fulfill the University General Education Requirement in Foreign Culture.

Proficiency in English and Mathematics
All undergraduate students who register for the first time at Wayne State University in Fall Semester 1983 or thereafter will be required to demonstrate proficiency in English and mathematics by the time they have earned sixty semester credits toward a bachelor’s degree. For full particulars of these requirements, as well as the requirements applicable to registrants at the University prior to Fall 1983, see the General Information section of this Bulletin, page 24.

Curriculum Requirements
A curriculum usually designates the student’s general area of interest or eventual professional choice. By choosing the General Curriculum, however, the student indicates only the intention to take a degree in one of the departments of the College or that a final goal has not been decided upon. Students planning to pursue a Bachelor of Arts degree program should select the general curriculum. Since educational interests may change during the course of the student’s college career, a curriculum may be changed at any time by consulting an adviser.

Some curricula outline a specific program of study. Others are governed only by the group requirements and future major requirements and recommendations. Group, curricular, and major requirements may be modified from time to time during the student’s course of study, and students should periodically consult with the appropriate adviser. Descriptions of the various curricula may be found in this Bulletin, under each Department in the College of Fine, Performing and Communication Arts.

Course requirements vary with each curriculum. Exceptions are permitted to the College rules governing the minimum and maximum credits in the major subject and the maximum hours allowed in restricted courses if such exceptions are stated or implied in the curriculum requirements outlined herein. Curriculum requirements are included in the departmental sections and are followed by a description of the courses pertinent to the major.

Major Requirements
A major is a program of concentrated study in a department or area within the College. The specific course requirements or areas for majors are listed in this bulletin under each of the departments of the College. A major in art and art history, dance, media arts and studies, music, speech communication, public relations, journalism, or theatre requires intensive study. Students who plan to elect one of these majors should consult with a departmental adviser during the freshman year. Students may declare majors at any time, but generally select areas of concentration during their sophomore year and formally declare majors by the beginning of their junior year. Students must complete all courses in the major with the grade of ‘C’ or better.

Declaration of Major: To declare a major, the student should consult a departmental adviser well in advance of a formal declaration, since the acceptance of the declaration of major is subject to the advice of the department concerned and may require an audition or portfolio review. Declaration of Major forms are available in the University Advising Center, 1600 Adamy Library Building. At the time of formal declaration, the student must present to the department a current transcript and a Degree Audit from University Advising, obtain the signature of the department chairperson or designated representative on the Declaration form, and file it in the College of Fine, Performing and Communication Arts Dean’s Office, 5104 Gullen Mall. All courses elected or changed by the student after the declaration of a major must be approved by the department adviser.

All undergraduate students must successfully complete a capstone course within their major. This course will be taken during the senior year (last thirty credits in course work). The capstone course will provide a systematic focus on and assessment of the knowledge and skills obtained in the major.

The major must include at least twenty credits in one subject, exclusive of the introductory courses and inclusive of some advanced work. No more than forty-six credits in the major subject (including introductory courses) may be counted toward a degree, except in specific curricula in which additional courses are specified in the curriculum outline.

For majors that require intensive study in a particular subject, more than forty-six credits are allowed.

Within the above limits, each major program has specific requirements, and these requirements may be modified from time to time;
and sophomor.

Theatre:

The major completed is part of the degree designation on the diploma.

Double Major: If a student wishes to declare a double major, the approval of the chairperson or delegated representatives of each of the departments of intended major must be obtained. In order for a student to graduate with a double major, the major requirements in both areas of concentration must be fulfilled. The student must complete all courses in both majors with an over-all grade point average of 2.0 (C). In the College of Fine, Performing and Communication Arts, the grade of 'C' or better must be achieved in the major. Both majors are designated on the diploma.

Minor Fields

The College of Fine, Performing and Communication Arts offers the option of a minor. Students may choose to fulfill a minor but are not required to do so. In general, minors require 18-21 credits. Courses that do not apply toward the major cannot apply toward a minor. Students are strongly encouraged to consult with departmental advisers for course selections.

The notation of the minor will appear on the transcript but not on the diploma. Declaration of the minor will be made by the student only when filing for graduation.

Special Concentrations Available within Departments

Art: Ceramics, Drawing, Fibers, Graphic Design, Industrial Design, Interdisciplinary Electronic Arts, Interior Design, Metalsmithing, Painting, Photography, Printmaking, Sculpture (Bachelor of Fine Arts Degree)

Art: Apparel Design, Fashion Merchandising (Bachelor of Arts or Bachelor of Science Degree)

Dance: Choreography and Performance, Dance Education (Bachelor of Fine Arts or Bachelor of Science Degree)

Music: Composition/Theory, Jazz Studies, Music Education, Music Management, Music Technology, Performance (Bachelor of Music Degree)

Communication: Speech Communication, Journalism, Media Arts and Studies, Public Relations, Interdisciplinary Film Studies (Bachelor of Arts Degree)

Theatre: Acting, Design/Technology (Bachelor of Fine Arts Degree)

Teacher Preparation Curricula

Health Examinations: At the beginning of the freshman year, all students entering the University who are considering teacher education work should take the health examination. Students may wish to avail themselves of the services of the Speech and Language Center, 503 Manoogian Hall, if they feel that they have defects that might impair their effectiveness as teachers. A health re-check is required at the time of admission to the College of Education.

Students preparing to teach in dance or music will register in the College of Fine, Performing and Communication Arts for their freshman and sophomore years and enroll in the combined curriculum with the College of Education at the beginning of their junior year. During the first two years, they will see the departmental advisers for general counseling. Application for entrance to the College of Education should be submitted after the completion of fifty-three credits in course work.

— Combined Curriculum for Music, Dance and Communication Majors

This curriculum leads to a bachelor’s degree and a Michigan Secondary Provisional Certificate.

The Combined Curriculum for Secondary Teaching is offered in cooperation with the College of Education and prepares the student for a teaching major in grades K-12 (music, dance) and 7-12 (speech) and a teaching minor in grades 7-12. In this curriculum the student takes the first two years of work in the College of Fine, Performing and Communication Arts. Courses in the third and fourth years are taken concurrently in Education and Fine, Performing and Communication Arts. Students interested in this program should consult a departmental academic adviser who will supply a curriculum outline.

Degree in the College of Fine, Performing and Communication Arts:
The student will remain registered in the College of Fine, Performing and Communication Arts and officially elects a departmental major at the beginning of the junior year. The student then applies to the College of Education for official admission to the combined curriculum for secondary teaching and must be approved by the College of Education as a candidate for teacher certification. During junior and senior years the program requests will be signed by both a College of Fine, Performing and Communication Arts major adviser and by the appropriate adviser in the College of Education.

Second Degree

A student who has received a Fine, Performing and Communication Arts degree from Wayne State University or any other accredited institution may obtain a second bachelor’s degree in another academic area by registering in the undergraduate School. A graduate of Wayne State University who has earned a degree from the College of Fine, Performing and Communication Arts may be ranked as an undergraduate by declaring a new major and indicating a desire to earn a second undergraduate degree in the departmentally approved areas. Other Wayne State University graduates must transfer to the College of Fine, Performing and Communication Arts. A student from another institution must be admitted to the College by the University Admissions Office.

In order to be granted a second degree, the student must fulfill the University General Education Group Requirements and all major requirements, including the foreign language requirement, for all Bachelor of Arts degrees. The University also requires that the student complete at least thirty credits in coursework at Wayne State University beyond the first degree, in order to be granted a second bachelor’s degree from Wayne State University. Generally, no second degree will be granted in the academic area in which the first degree was earned.

Concurrent Degrees

A student who has satisfied all the requirements for two different major programs leading to degrees offered by the College and who has accumulated 150 or more degree credits may apply for both degrees simultaneously. However, students intending to earn concurrent degrees are required to obtain permission from the Office of the Dean prior to the accumulation of 120 degree credits. Another, and more usual, procedure for students satisfying the requirements of two different major programs is to declare a double major and graduate with one degree, in which case as little as 120 degree credits may be required. (See ‘Double Major,’ page 174.)

Restrictions on Credit

The College imposes the following restrictions on credit:

Maximum Credits in One Subject: A student may not count as credit toward a degree more than forty-six credits in courses in any
one subject except in specific curricula in which additional courses are specified in the curriculum outline.

**Over-Age Credits:** A student attempting to complete a major after a protracted interruption in education, or on a part-time basis over an extended period of time, may find that some of the early course work is out of date. In such cases, a department may require refresher work or demonstration of preparation for advanced courses in the department.

**Restrictions on Transfer Credit — Two-year Schools:** No more than sixty-four semester credits may be transferred from two-year colleges.

— **Interdisciplinary Studies (College of Urban, Labor and Metropolitan Affairs):** No more than sixteen credits, which may include six credits of Independent Study, may be transferred from Interdisciplinary Studies.

— **Labor School:** A maximum of ten hours of elective credit may be granted students who have been certified as having completed the Labor School curriculum, have a letter of recommendation from the Director, and have earned sixty credits with a grade point average of at least 2.0.

**Restricted Courses:** Degree credit is not given for elections in restricted courses that exceed the approved limit specified below.

**Advanced Courses:** At least fifteen credits in courses numbered 3000 or above must be earned.

**Professional Courses:** A maximum of sixteen credits may be elected as cognate credit by any student from courses offered for degree credit by the several professional schools and colleges within the University. These credits may be elected with the approval of the departmental adviser.

**Repeated Subjects:** It is understood that degree credit will not be granted for course work for which credit has already been granted. Since similar courses may have different names at different times and at different colleges, students are advised to make sure they do not offer repeated work as credit toward a degree.

**Extra Credits:** Extra credits are any credits taken in excess of the normal load of eighteen credits. A student with a 3.0 grade point average may take more than eighteen credits only when the proposed program carries the written approval of the adviser and the Dean.

**Grade Point Average**

All students are required to maintain an over-all grade point average of ‘C’ (2.0) for all degree work elected. See ‘Grade Point Average’ in the General Information section of this Bulletin, page 43.

**Residence**

To qualify for a baccalaureate degree in the College of Fine, Performing and Communication Arts a minimum of thirty credits must be earned in the College. The last thirty credits applicable to the degree, not including credit by special examination, must be completed in an undergraduate college or school of Wayne State University. Credit by special examination may not be counted as residence credit but such credit, if earned during a semester in which the student is registered, will not be considered an interruption of residence.

In special circumstances, senior residence may be interrupted with the approval of the student’s major department and the College of Fine, Performing and Communication Arts Dean’s Office; however, when the candidate has less than the minimum thirty credits of residence in the College of Fine, Performing and Communication Arts, no such exceptions are permitted.

**Scholarships and Financial Aid**

Financial aid information may be found in the general information section of this bulletin (see page 20), and in the individual department sections. The following is open to all students majoring in the fine and performing arts:

**Richard J. Bilaitis Award for Creative Excellence:** Open to junior, senior, or graduate students enrolled in the Departments of Art and Art History, Dance, Music, or Theatre upon the recommendation of a member of the College Faculty. Students must maintain a minimum 2.5 g.p.a. and are not required to demonstrate financial need.

**Sol Nathan Cohen Memorial Scholarship:** Amount depends on funds available; open to full-time undergraduate students majoring in the fine and performing arts, maintaining a minimum 3.0 g.p.a. and
ACADEMIC REGULATIONS

For complete information regarding academic rules and regulations of the University, students should consult the general information section of this bulletin, beginning on page 5. The following additions and amendments apply to the College of Fine, Performing and Communication Arts.

Recommended High School Preparation
The College of Fine, Performing and Communication Arts strongly supports the University’s recommendations concerning academic preparation. See page 15.

Attendance
Regular attendance and performance is necessary for success in college work. Each instructor, at the beginning of the course, will announce attendance requirements.

Normal Program Load
The requirements for graduation are based upon an average program of fifteen credits per semester for eight semesters. The normal load shall not exceed eighteen credits.

Because two hours of outside preparation are normally expected for each class hour in each course, a fifteen credit program calls for approximately forty-five hours of class attendance and study per week. Students who undertake such a program should expect to give it their full time and energy. A few hours of employment a week may be safely added to this program by a capable student.

Retention of Records
Term papers and examinations shall either be returned to the student or retained by the instructor for a minimum of six months. Thereafter they may be destroyed. Instructors shall retain grade books for at least five years following the end of a term, and instructors who leave the institution shall give grade books for courses conducted during the past five years to their department chairperson. Five years after the end of a course, grade books may be returned to the instructor or destroyed by the department.

Study Abroad
Various opportunities for study abroad are available through the University. Students should contact their major department and the University Advising Center for further information regarding these programs.

Honors Courses
Students with a 3.0 grade point average are eligible to enrich their education through election of honors courses. Information on these courses may be obtained in the Schedule of Classes under Honors Program. For a listing of available honors courses, see page 274.

Students enrolled in the College of Fine, Performing and Communication Arts who are interested in pursuing a University Honors degree should refer to page 34 of the bulletin. Further information regarding the Honors Program is available in the Honors Program Office located in room 2305 Faculty Administration Building.

Graduation With Distinction
Wayne State University bestows upon students completing the baccalaureate degree three separate designations for scholastic excellence reflected in the cumulative grade point average: Cum Laude, Magna Cum Laude, and Summa Cum Laude. Graduation with Distinction will be indicated on the student's diploma and on the transcript.

Graduation with Distinction will recognize at each commencement the top twenty percent of students in the College of Fine, Performing and Communication Arts who have earned the highest grade point average in the College with the following approximate distribution:

Top 5%: Summa Cum Laude
Next 5%: Magna Cum Laude
Next 10%: Cum Laude

The specific minimum grade point average making for these distinctions will be determined each year in the following manner (except that it shall not be less than 3.0):

Based on the grade point average distributions of the previous year’s senior class, the grade point average cut-offs for the College will be established to provide for recognition of the top eighteen to twenty per cent of the graduating students.

The criteria for Graduation with Distinction include:

1. A minimum of sixty credits in residence at Wayne State University;
2. A minimum grade point average, as established above, on all work at Wayne State University completed by the end of the term of graduation. (For notation in the Commencement Program, the grade point average on all work completed prior to the term of graduation will be used.)

Dean's List
The Dean's List of academically superior students is compiled each fall and winter term based on the following criteria: a 3.75 grade point average for students registered for full-time programs of twelve credits or more that contribute to the grade point base; and a 4.0 grade point average for students registered for between six and eleven credits. Students who receive marks of 'I' or 'W' or 'X' and grades of 'N' or 'U' are not eligible. (For explanation of these marks and grades, see page 42.)

Academic Probation

Low Grade Point Average: If a student's work averages below 2.0, the student will be placed on academic probation; see 'Undergraduate Academic Probation,' page 40. The student will be required to obtain permission from the University Advising Center before registering. Such permission will be granted only after an interview during which the student and adviser identify previous causes of failure and formulate a plan for future academic success.

Registration and Holds on Records: A student on academic probation has an academic probation 'hold' placed on his/her record, and must obtain a release of this hold each term before being permitted to register. To obtain this release, the student must see an academic adviser in the University Advising Center, as indicated above under 'Low Grade Point Average.' The hold will not be released after the last day of the final registration period for the term in which the student intends to register. It cannot be released at the advising station in the Student Center during final registration.

Restriction: While on academic probation, a student may not represent the College in student activities.

Removal of Probation: Academic probation will be removed at the end of any term in which the student achieves an over-all average of 2.0 ('C') or better for all degree work taken at the University.

Exclusion

Low Grade Point Average: A student on academic probation shall be allowed two subsequent terms for enrollment in probationary status. At the conclusion of the two terms, a student who has not achieved a cumulative g.p.a. of at least 2.0 shall be excluded from the University. This exclusion may be reviewed by the Probation
Committee and the Dean upon the request of the student. A student excluded from the University may not apply for readmission for one calendar year.

**Reinstatement:** After one year of exclusion, the student may apply for reinstatement to the College. The reinstatement application must be returned to the University Advising Center at least two weeks prior to the first day of any registration period. The decision to reinstate the student will be based upon evidence presented by the student that circumstances have changed during the year and that the probability of success has increased.

**Cheating and Plagiarism:** The principle of honesty is recognized as fundamental to a scholarly community. Students are expected to honor this principle and instructors are expected to take appropriate action when instances of academic dishonesty are discovered. An instructor, on discovering such an instance, may give a failing grade on the assignment or for the course. Serious acts of dishonesty may lead to suspension or exclusion.

The instructor has the responsibility of notifying the student of the alleged violation and the action being taken. Both the student and the instructor are entitled to academic due process in all such cases. Information on procedures is available in the College of Fine, Performing and Communication Arts Dean’s Office.

**Academic Advising**

*Freshmen and sophomores* are required to consult departmental advisers each time they register. A staff of academic advisers is available in the University Advising Center, 1600 Adamany Library Building, to answer general academic questions. Students should confer with advisers on all questions concerning degree requirements, academic regulations, course elections, and programs of study. It is of primary importance that students talk with an adviser when they are having difficulties in their academic work.

**Commencement**

Information concerning commencement announcements, caps and gowns, invitations, tickets, time and place, assembling and other relevant items will be mailed to graduates by the Class Board prior to the event.

**MULTIDISCIPLINARY COURSES (FPC)**

The following undergraduate courses are of a general nature and are used by students in various College disciplines. For interpretation of numbering system, signs and abbreviations, see page 481.

**5020 Legal Environment of the Arts. Cr. 3**

Prereq: junior standing. Law affecting persons in the entertainment business: artists, actors, musicians, producers, directors, writers, managers, agents, and others. Areas of contract, tort, copyright, trademark and First Amendment law that concern entertainment. (Y)

**5660 Creativity: Building the New. (ISP 5660) Cr. 3**

Prereq: junior standing or above, or consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Study of creativity with personal application. Investigations in artistic, scientific, social science, engineering, industrial, and other areas. Actual application and problem-solving skills. (Y)

**DIRECTORY OF THE COLLEGE**

**Dean**

Linda L. Moore: 5104 Gullen Mall; 577-5342

**Associate Dean for Academic Affairs**

John D. Vander Weg: 5104 Gullen Mall; 577-5747

**Assistant Dean for Administrative Affairs**

Joan M. Ferguson: 5104 Gullen Mall; 577-5362

**Assistant to the Dean**

Lezlie H. Stivale: 5104 Gullen Mall; 577-5337

**Budget**

Janine Dunlop: 5104 Gullen Mall; 577-5206

**Information Officer**

David Romas: 5104 Gullen Mall; 577-5448

**Computing Systems**

Gary Cendrowski: 5104 Gullen Mall; 577-0294

**Development Officer**

Jennifer Harmon: 5104 Gullen Mall; 577-1458

**Development and Alumni Affairs**

Casandra Ulbrich: 5104 Gullen Mall; 577-5336

**Information Technology**

Byron Clemens: 5104 Gullen Mall; 577-5363

**Personnel**

Robin Collins: 5104 Gullen Mall; 577-5365

**Reception**

Margaret Thomas: 5104 Gullen Mall; 577-5342

**Secretary to the Dean**

Nicole Newby: 5104 Gullen Mall; 577-9820

**Student Services**

Sue Tamm: 5104 Gullen Mall; 577-5364

**Departmental Offices**

**Art and Art History**

Charles J. Stivale: 150 Art Building; 577-2980

**Communication**

Robert K. Avery: 585 Manoogian Hall; 577-2943

**Dance**

Eva Powers: 3226 Old Main; 577-4273

**Music**

Dennis J. Tini: 1321 Old Main; 577-1795

**Theatre**

Blair Anderson: 3225 Old Main; 577-3508

Website: http://www.cfpca.wayne.edu/

Mailing address for all offices:

(Department Name), College of Fine, Performing and Communication Arts, Wayne State University, 5104 Gullen Mall, Detroit, MI 48202

**Website:**

http://www.cfpca.wayne.edu/
ART and ART HISTORY

Office: 150 Art Building, 450 Reuther Mall; 577-2980
Interim Chairperson: Charles J. Stivale
Undergraduate Adviser: Michelle Porter
Slide Collection Curator: Sarah Miller
Exhibition Curator: Sandra Dupret
Art Studio Supervisor: Todd Mitchell
Website: http://www.art.wayne.edu

Professors
John G. Hegarty, Marion E. Jackson, Robert J. Martin, James Nawara, Thomas C. Parish, Melvin Rosas

Associate Professors
Jeffrey Abt, Pamela DeLaura, Thomas P. Fitzgerald, Urban Jupena, Nancy Locke, Brian Madigan, Judith Moldenhauer, James M. Raymo, Stanley L. Rosenthal, Peter Williams, Joseph B. Zajac, Marilyn Zimmerman

Assistant Professors
Sarah Bassett, Tammy Evans, Margaret Franklin, Brian Kritzman, Evan Larson, John Richardson

Lecturers
Rayneld Johnson, Dennis Robare, Susan Widawski

W. Hawkins Ferry Endowed Chair in Twentieth Century Art History and Criticism
Dora Apel

Emeritus/Emerita Faculty

Degree Programs

BACHELOR OF ARTS with a major in art, art history, or fashion design and merchandising.

BACHELOR OF FINE ARTS with a major in art
and a concentration in one of the following: ceramics, drawing, fibers, graphic design, industrial design, interdisciplinary electronic arts, interior design, metal arts, painting, photography, printmaking, or sculpture.

BACHELOR OF SCIENCE with a major in fashion design and merchandising

*MASTER OF ARTS with a major in art
and a concentration in one of the following: ceramics, drawing, fibers, graphic design, industrial design, interior design, metal arts, painting, photography, printmaking, or sculpture.

*MASTER OF ARTS with a major in art history.

*MASTER OF ARTS with a major in fashion design and merchandising

*MASTER OF FINE ARTS with a major in art
and a concentration in one of the following: ceramics, design, drawing, fibers, metal arts, painting, photography, printmaking, or sculpture.

* For specific requirements see the Wayne State University Graduate Bulletin.

The Department of Art and Art History reserves the right to retain, for its permanent collection, the work submitted by students for credit in any course, and to exhibit or reproduce such work in University publications. Students are encouraged to retain work as they proceed through their program, so as to have at least twenty works for a final portfolio review.

Bachelor of Arts
With a Major in Art

Admission Requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Arts in Art must complete 120 credits including satisfaction of the University General Education Requirements (see page 23), College degree requirements (see page 178), and forty-eight credits in art courses, including the Core Requirements and Departmental Requirements cited below. The minimum grade for each course required in the major, which must be taken in the Department of Art and Art History, must be no less than a ‘C’ in order for the course credit to count toward completion of the degree. Students pursuing a bachelor of arts degree must also fulfill the foreign language requirement (see page 173). All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees.

CORE REQUIREMENTS:
ADR 1050 --Drawing I: Cr. 3
ADR 1060 --Drawing II: Cr. 3
ADE 1200 --Design I: Cr. 3
ADE 1210 --Design II: Cr. 3
A H 1110 --(VP) Survey of Art History: Ancient - Medieval: Cr. 3
A H 1120 --(VP) Renaissance Through Modern Art Survey: Cr. 3

DEPARTMENTAL REQUIREMENTS
ADR 2070 --Beginning Life Drawing: Cr. 3
APA 2100 --Basic Painting: Cr. 3
ASL 2150 --Beginning Sculpture: Cr. 3
ADE 2200--Design III: Three Dimensional (or craft course: AME, ACR, AFI): Cr. 3
One three-credit course in printmaking (APR) or photography (APH): Cr. 3
Art History (A H) elective (3000 level or above): Cr. 3
Art History (A H) elective (3000 level or above): Cr. 3
PHI 3700--(PL) Philosophy of Art: Cr. 3

Bachelor of Arts
With a Major in Art History

Admission Requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates must complete 120 credits, including satisfaction of the University General Education Requirements (see page 23), College degree requirements (see page 178), and the major requirements listed below. Students pursuing a bachelor of arts degree must also fulfill the foreign language requirement (see page 173). All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 173.

Students may elect this major as part of an undergraduate curriculum in either the College of Liberal Arts or the College of Fine, Performing and Communication Arts. Those electing the major in the College of Liberal Arts must fulfill the general requirements of that College; see page 228.
Major Requirements: Students must complete a minimum of thirty-three credits in art history, which includes six credits in the basic surveys (A H 1110, 1120). A minimum of one course at the 5000 level or above must be taken in each of the following areas: classical, medieval, renaissance/baroque, and modern. Students should check with the department office for a list of courses satisfying the area requirements. All students must take A H 5090. Theory and Methods in Art History. Each course in the major must be taken in the Department of Art and Art History and be completed with a minimum grade of 'C.' In addition to the credits in art history, students are required to complete two years (four semester courses) of study in French or German, with minimum grades of 'C.'

Bachelor of Arts or Bachelor of Science With a Major in Design and Merchandising
Curricula in this area provide a liberal education as well as the opportunity for a professional concentration in the fields of apparel design and fashion merchandising.

Admission Requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for either Bachelor's degree must complete 120 credits including satisfaction of the University General Education requirements (see page 23), College degree requirements (see page 178), and all departmental and area requirements as indicated below. The minimum grade for each course required in the major, which must be taken in the Department of Art and Art History, must be no less than a 'C' in order for the course credit to count toward completion of the degree. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 173.

Students pursuing the Bachelor of Arts Degree with a Major in Design and Merchandising must all fulfill the foreign language requirement (see page 173).

Students pursuing the Bachelor of Science Degree with a Major in Design and Merchandising must complete a minimum of twenty-four credits in Natural Science courses in lieu of the language requirements (University General Education Requirements must still be met.)

CORE REQUIREMENTS
AFA 2410 -- Textiles I: Cr. 3
AFA 2420 -- Fashion Design: Basic Construction: Cr. 3
AFA 3400 -- Clothing and Culture: Cr. 3
AFA 3460 -- Introduction to Merchandising: Cr. 3
AFA 5430 -- History of Costume: Cr. 3
AFA 5997 -- (WI) Seminar: Cr. 3

APPAREL DESIGN OPTION:
Successful completion of this curriculum enables students interested in creative aspects of clothing to develop competencies needed for careers in apparel design and related fields. Possible careers include designing, product development, and other related fields of the apparel industry.

Students are responsible for meeting program requirements as outlined in curriculum guides; these include a minimum of fifteen art credits. Curriculum guides are available in the Department of Art and Art History office.

FASHION MERCHANDISING OPTION:
This curriculum develops understanding and practical skills related to the planning, buying and selling of fashion merchandise. Students gain insights into the various aspects of the apparel industries including marketing, sales, styling, publicity, advertising, visual presentation, fashion coordination, and merchandising. Possible careers include positions in management, buying, and fashion promotion and sales.

Students are responsible for meeting program requirements as outlined in curriculum guides; these include a minimum of fifteen business credits. Curriculum guides are available in the Department of Art and Art History office.

Bachelor of Fine Arts

Admission Requirements for the Bachelor of Fine Arts Degree are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Fine Arts degree must complete 120 credits including satisfaction of the University General Education Requirements (see page 23) and College degree requirements (see page 178). Core and departmental requirements as cited above under Bachelor of Arts with a Major in Art must be met, as well as the major requirements below. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 173.

Major Requirements: Students must complete twenty-four to fifty-one credits (depending on areas of specialization) in art courses, eighteen of which must be at the advanced level (from courses numbered 3000 and above) plus the appropriate senior seminar for the selected concentration. The minimum grade for each course required in the major, which must be taken in the Department of Art and Art History, must be no less than a 'C' in order for the course credit to count toward completion of the degree. Curriculum outlines with suggested scheduling patterns for the following fields of concentration are available in the Department of Art and Art History office:

- Ceramics; Drawing; Fibers; Graphic Design; Industrial Design; Interdisciplinary Electronic Arts; Interior Design; Metal Arts; Painting; Photography; Printmaking; Sculpture

Required courses in each B.F.A. concentration are given below; exceptions may be made with consent of adviser.

CERAMICS
ACR 2550 -- Ceramics and Pottery Design I 1; Cr. 3
ACR 2560 -- Ceramics and Pottery Design II 1; Cr. 3
ACR 3550 -- Beginning Ceramics: Cr. 3
ACR 4000 -- Ceramics: Wheel Throwing: Cr. 3
ACR 4550 -- Intermediate Ceramics: Cr. 3
ACR 5550 -- Advanced Ceramics: Cr. 12

DRAWING
ADR 2070 -- Beginning Life Drawing: Cr. 3
ADR 3070 -- Intermediate Life Drawing: Cr. 3
ADR 5060 -- Advanced Concepts in Drawing & Painting: Cr. 3
ADR Electives -- Landscape Drawing and Painting: Cr. 3
Drawing Electives: Cr. 12

FIBERS
AFI 2650 or AFI 2660 -- Beginning Weaving: Cr. 3
AFI 2660 -- Introduction to Fabric Printing & Dying: Cr. 3
AFI 3650 or AFI 3660 -- Intermediate Weaving: Cr. 3
AFI 3660 -- Intermediate Fibers: Cr. 3
AFI 5000-level AFI courses (Junior year): Cr. 9
AFI 5000-level AFI courses (Senior year): Cr. 6

1. Students who have completed first year core program may start with ACR 3550/4550 and repeat ACR 5550.
AID 2240 — Orientation to Graphic Design Software: Cr. 3
AID 2250 — Typography: Cr. 3
AID 3250 — Graphic Design I: Cr. 3
AID 4250 — Graphic Design II: Cr. 3
AID 5250 — Graphic Design III: Cr. 3
AID 5260 — (WI) Senior Seminar: Cr. 3
AID 5997 — Graphic Design IV: Cr. 3
Graphic Design Electives: Cr. 6

INDUSTRIAL DESIGN
AID 3300 — Introduction to Industrial Design: Cr. 3
MIT 3350 — Applied Human Factors: Cr. 3
MIT 3500 — Machine Tool Lab: Cr. 1
AID 3310 — Basic Presentation: Cr. 6
AID 5300 — Industrial Design: Cr. 9
AID 5310 — Advanced Presentation: Cr. 6
AID 5330 — 3-D Modeling: Cr. 6
AID 5997 — Senior Seminar: Cr. 3
AID 6300 — Transportation Design: Cr. 3-6
AID 6310 — Advanced Studio/Exhibit: Cr. 3-6
AID 6320 — History of Modern Design I: Cr. 3
AID 6330 — History of Modern Design II: Cr. 3

INTERDISCIPLINARY ELECTRONIC ARTS
THR 1010 or THR 1030
  -- (VP) Introduction to the Theatre: Cr. 3
  -- (VP) Black Theatre: An Introduction: Cr. 3
DNC 1010 — Contemporary Dance I: Cr. 2
MUH 1340 — (VP) Music Appreciation: World Music: Cr. 3
AGD 3250 — Graphic Design I: Cr. 3
AIN 2220 — Video Art: Cr. 3
AIN 3220 — Computer Art: Cr. 3
AIN 4220 — Computer Animation: Cr. 3
AIN 5220 — Interactive Art: Cr. 3
AIN 6830 — Internship: Computer/Video/Multimedia: Cr. 3
APR 2300 — Introduction to Printmaking: Cr. 3

INTERIOR DESIGN
AIA 1610 — Architectural Drafting and Perspective Drawing: Cr. 3
AIA 2600 — Interior Design: CAD: Cr. 3
AIA 2610 — Interiors Design Studio I: Cr. 3
AIA 3610 — Interior Design Studio II: Cr. 3
AIA 4600 — Environmental Design Theory: Cr. 3
AIA 4610 — Interior Design Studio III: Cr. 3
AIA 5010 — Furniture/Product Workshop: Cr. 3
AIA 5610 — Interior Materials and Systems: Cr. 3
AIA 5620 — Building Construction Systems in Architecture I: Cr. 3
AIA 5630 — Interior Lighting Design & Application: Cr. 3
AIA 5640 — Building Construction Systems in Architecture II: Cr. 3
AIA 5997 — (WI) Senior Seminar: Cr. 3
AIA 6610 — Interiors Design Studio IV: Cr. 3
AIA 6650 — Business Practicum: Cr. 2
AID 6320 or AID 6330
  -- History of Modern Design I: Cr. 3
  -- History of Modern Design II: Cr. 3

Suggested Electives:
AIA 3620 — Interior Design CAD II: Cr. 3
AIA 4620 — Introduction to Perspective and Illustration: Cr. 3
AIA 5660 — Supervised Field Experience: Cr. 3
AID 3310 — Basic Presentation: Cr. 3
AIA 4990 — Directed Study: Intro: Envir. Design & Products: Cr. 3
AIA 5991 — Directed Projects: Interior Residential Design: Cr. 3

METAL ARTS
AME 2600 — Intro: Jewelry & Metalsmithing: Cr. 3
AME 3600 — Intermediate Jewelry I: Cr. 3
AME 3601 — Intermediate Jewelry II: Cr. 3
AME 4600 — Metalsmithing I: Cr. 3-6
AME 4601 — Metalsmithing II: Cr. 3-6
AME 5600 — Advanced Jewelry & Metalsmithing: Cr. 6
5000-level Metal Arts elective: Cr. 3
ACS 5997 — (WI) Senior Seminar: Cr. 3

PAINTING
APA 2110 — Beginning Painting: Water Media: Cr. 3
APA 2120 — Beginning Painting: Oil: Cr. 3
3000-level Painting Elective: Cr. 3
APA 3130 or APA 3140
  -- Figure Painting: Water Media: Cr. 3
  -- Figure Painting: Oil and Other Media: Cr. 3
APA 5100 — Painting Seminar: Cr. 3
5000-level Painting Electives: Cr. 9

PHOTOGRAPHY
APH 2400 — Introductory Photography: Cr. 3
APH 2410 — Beginning Photography: Cr. 3
APH 2420 — Digital Imaging: Cr. 3
APH 3410 — Intermediate Photography: Cr. 3
APH 3420 — Digital Imaging II: Cr. 3
APH 4410 — Advanced Photography: Cr. 3
APH 4420 — View Camera: Cr. 3
APH 4430 — Color Photography: Cr. 3
5000-level Photography Electives: Cr. 3

PRINTMAKING
AGD 2400 — Introductory Printmaking: Cr. 3
AGD 2410 — Beginning Printmaking: Cr. 3
AGD 2420 — Digital Imaging: Cr. 3
AGD 3420 — Digital Imaging II: Cr. 3
AGD 4410 — Advanced Printmaking: Cr. 3
AGD 4420 — Visual Communications: Cr. 3
AGD 4430 — Color Photography: Cr. 3
5000-level Printmaking Electives: Cr. 9

SCULPTURE
ASL 3150 — Intermediate Sculpture: Cr. 3
ASL 3170 — Figurative Sculpture: Cr. 3
ASL 3190 — Metal Casting & Fabrication I: Cr. 3
5000-level Advanced Sculpture courses: Cr. 15

Transfer Students
Transfer students must complete a minimum of twenty-seven resident credits in art courses for either the B.A. or B.F.A. degree with a studio major; a minimum of twelve resident credits with an art history major; or a minimum of twelve resident credits for either the B.A. or B.S. degree with a major in design and merchandising.

Minors in Art and Art History
ART: A minor in art will be granted upon completion of twenty-four credits, including: two Drawing courses (ADR 1050, 1060), two Design courses (ADE 1200, 1210), one Art History course (A H 1110 or 1120), and three studio electives (nine credits).

ART HISTORY: A minor in art history will be granted upon completion of twenty-one credits in art history courses, including A H 1110 and 1120, and fifteen credits at the 2000 level or above.

Departmental Scholarships
See the section on Scholarships and Financial Aid on page 175. Detailed information on all Department scholarships and awards is available in the Art and Art History office.

Carol Ann Albertson Memorial Endowed Scholarship: Awarded to assist full-time freshman students who have expressed interest in art and art history as a major.

Wilfred C. Becker Memorial Scholarship: Award of $1500 per academic year renewable for four years; open to any high school senior recipient of a Scholastic Art Award sponsored by the Scholastic Art Association.
Bud Bernstein Endowed Prize Fund: Awarded to assist students in the fine arts group concentrations of drawing, painting, printmaking and sculpture to complete ambitious art projects. Funds are to be used for expenses such as supplies, materials, or other services necessary to complete the project.

Albert and Peggy desSalle Scholarship: Awarded to an undergraduate or graduate art student majoring in metals, photography, or a closely related field.

James F. Duffy Jr. Travel Fellowship: Awarded to advanced fine arts students or recent graduates, to allow them to travel abroad to extend their awareness of art and to broaden their experience of culture outside the United States.

Brian Gahagan Memorial Endowed Scholarship: Awarded to recognize excellence as demonstrated by students in the area of painting, and to encourage the continued progress of students studying painting.

Mary Kirk Haggarty Memorial Scholarship: Awarded to an undergraduate or graduate student majoring in art history.

Linda Marlene Iden Memorial Scholarship: Awarded to a full-time or part-time fine art or design undergraduate or graduate student in the Department of Art and Art History with demonstrated artistic talent and good academic performance.

Marji Kunz Fashion Scholarship: Awarded to a design and merchandising student (sophomore level or above) with aptitude in creative design, display work, writing, fashion retailing or modeling.

President’s Endowed Scholarship in Art: Awarded to recruit and/or retain students who have demonstrated scholastic achievement, displayed exceptional ability in the studio arts, and have a record of successful past performance in one of the studio arts.

John and Irene Sowinski Scholarship: Awarded to an art student majoring in a studio art area.

Albert L. and Alice W. Steinbach Scholarship: Awarded to an undergraduate or graduate student majoring in art history.

Talent Award: Award of up to one-half the amount of undergraduate tuition per academic year (fall and winter terms), renewable for four years, open to any Michigan high school senior planning to major in a studio art area.

UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

NOTE: Only courses passed with a minimum grade of ‘C’ will satisfy prerequisite requirements for subsequent courses in the Department of Art and Art History.

CERAMICS COURSES (ACR)

2550 Ceramics and Pottery Design I. (ACR 2560) (ACR 3550) (ACR 4550) (ACR 5550) (ACR 7550) Cr. 3
Introduction to beginning clay forming, glazing and firing. Primarily for non-art and beginning art majors. Material fee as indicated in the Schedule of Classes. (T)

2560 (ACR 2550) Ceramics and Pottery Design II. (ACR 3550) (ACR 4550) (ACR 5550) (ACR 7550) Cr. 3
Prereq: ACR 2550. Continuation of ACR 2550. Advanced hand building and wheel throwing demonstrations. Lectures on historical and contemporary issues. Personal growth and development. Material fee as indicated in the Schedule of Classes. (T)

3550 (ACR 2550) Beginning Ceramics. (ACR 2560) (ACR 4550) (ACR 5550) (ACR 7550) Cr. 3
Prereq: ACR 1060 and ADE 1210. Open only to art majors. Basic techniques of wheel throwing, hand building, glazing and firing. Lectures, demonstrations, critiques. Material fee as indicated in the Schedule of Classes. (T)

4000 Ceramics: Wheel Throwing. Cr. 3
Prereq: ACR 2550 or 3550 or consent of instructor. Development of personal, technical and aesthetic skills in potter’s wheel as tool to create utilitarian and non-utilitarian objects. Group and individual critiques. Material fee as indicated in the Schedule of Classes. (Y)

4001 Handbuilding. Cr. 3 (Max. 6)
Prereq: ACR 2550 or 3550; or written consent of instructor. Intermediate and advanced handbuilding techniques including coiling, extrusions, mold and slab construction. Surfacing, glazing and firing processes as they apply to completing the objects. Material fee as announced in Schedule of Classes. (Y)

4550 (ACR 2550) Intermediate Ceramics. (ACR 2560) (ACR 3550) (ACR 5550) (ACR 7550) Cr. 3
Prereq: ACR 3550. Advanced building techniques; glaze and clay body calculation, mold-making and aesthetic evaluation. Material fee as indicated in the Schedule of Classes. (T)

5550 (ACR 2550) Advanced Ceramics. (ACR 2560) (ACR 3550) (ACR 4550) (ACR 7550) Cr. 3-6 (Max. 12)
Prereq: ACR 4550. Open only to art majors with a concentration in ceramics. Election of more than 3 credits per semester requires consent of instructor. Advanced hand building and wheel throwing demonstrations. Lectures on historical and contemporary issues. Personal growth and development. Material fee as indicated in the Schedule of Classes. (T)

5570 Ceramics: Special Projects. Cr. 1 (Max. 6)
Student experience with a specialized facility and faculty to complement individual growth and development. (F,W)

5880 Directed Projects: Ceramics. Cr. 3-6 (Undergrad. max. 15; grad. max. 30)
Prereq: consent of instructor. Independent projects and study in consultation with faculty. Material fee as indicated in the Schedule of Classes. (F,W)

DESIGN COURSES (ADE)

1200 Design I. Cr. 3
Foundation course for all visual communication. Two- and three-dimensional experimentation in various techniques with achromatic media. (T)

1210 Design II. Cr. 3
Prereq: ADE 1200. Continuation of ADE 1200 with concentration on color theories and phenomena. Two- and three-dimensional concepts of structure with an emphasis on color. (T)

2200 Design III: Three Dimensional. Cr. 3
Prereq: ADE 1210. Elementary and advanced spatial constructions using a variety of tools, materials and machines. Relationships to other art forms and fields are stressed through lectures and discussions. Material fee as indicated in the Schedule of Classes. (F,W)

DRAWING COURSES (ADR)

1050 Drawing I. (ADR 1060) Cr. 3
Introduction to basic drawing skills such as linear perspective, light and shadow, use of dry and wet media; emphasis on composition. Drawing primarily still life subjects. (F,W)
3070 (ADR 2070) Intermediate Life Drawing. (ADR 5070) (ADR 7070) Cr. 3
Prereq: ADR 1060. Continued systematic study of human figure using broad range of media. Material fee as indicated in the Schedule of Classes. (F,W)

3080 Advanced Concepts in Drawing and Painting. (ADR 7080) Cr. 3-6 (Max. 12)
Prereq: ADR 2070. Election of more than three credits per semester requires consent of instructor. Original designs made from a basic sloper. Material fee as indicated in the Schedule of Classes. (Y)

3090 Anatomy. Cr. 3
Prereq: ADR 2070. Superficial human anatomy including effects of muscular and skeletal systems. Drawing from both models and skeletons, lectures, demonstrations. Material fee as indicated in the Schedule of Classes. (Y)

5060 Advanced Concepts in Drawing and Painting. (ADR 7060) Cr. 3-6 (Max. 15)
Prereq: ADR 3070 or APA 3120. Emphasis on individual projects using any appropriate medium. Students select subjects and approaches under faculty guidance; may include lectures, demonstrations, off-campus visits. (Y)

5070 (ADR 2070) Advanced Life Drawing. (ADR 3070) (ADR 7070) Cr. 3-6 (Max. 24)
Prereq: ADR 3070. Election of more than three credits per semester requires consent of instructor. Continued study of human figure based on observation. Composition. Expressive interpretation of the figure through broad range of media. Material fee as indicated in the Schedule of Classes. (F,W)

5080 Landscape Drawing and Painting. (ADR 7080) Cr. 3-6 (Max. 12)
Prereq: ADR 1060. Election of more than 3 credits per semester requires consent of instructor. Drawing and/or painting outside at a variety of urban and rural sites in the metropolitan Detroit area; students are expected to drive or carpool to locations within an hour of Detroit. Interpretation of landscape subjects through observation and imagination in any appropriate drawing or painting medium. This course will fulfill drawing or painting major requirements. (S)

5090 Anatomy. Cr. 3
Prereq: ADR 2070. Superficial human anatomy including effects of muscular and skeletal systems. Drawing from both models and skeletons, lectures, demonstrations. Material fee as indicated in the Schedule of Classes. (Y)

5800 Directed Projects: Drawing. Cr. 3-6 (Undergrad. max. 15; grad. max. 30)
Prereq: consent of instructor. Individual work supervised by faculty on arranged basis. (F,W)

FASHION DESIGN and MERCHANDISING COURSES (AFA)

2410 Textiles. Cr. 3
Introduction to fibers, yarns, fabric construction, design and finishes and how they relate to selection, use and care of textile products. Material fee as indicated in the Schedule of Classes. (F,W)

2420 Fashion Design: Basic Construction. Cr. 3
Application of color and design principles in construction of structured and unstructured garments. Material fee as indicated in the Schedule of Classes. (F,W)

3400 Clothing and Culture. Cr. 3
Functions and meanings of dress in diverse cultures and contemporary society with an interdisciplinary approach. (F,W)

3410 Textile Performance Analysis. Cr. 3
Prereq: AFA 2410. Recent technological developments; introduction to textile testing, product analysis and industry specifications. Material fee as indicated in the Schedule of Classes. (W)

3460 Introduction to Merchandising. Cr. 3
Prereq: consent of instructor. Continued systematic study of human figure using broad range of media. Material fee as indicated in the Schedule of Classes. (F,W)

3470 Merchandise Information. Cr. 3
Quality and value in merchandising. Manufacturing processes, government regulations and selling points in hard and soft lines. (W)

4430 Fashion Illustration. Cr. 3 (Max. 6)
Prereq: ADR 1050. Basic fashion rendering techniques using a variety of media. (B)

4990 Directed Study. Cr. 2-4
Prereq: consent of instructor. (T)

4991 Workshop: Special Topics. Cr. 2-4 (Max. 6)
Application of theoretical principles to selected areas of design and merchandising. Topics and prerequisites to be announced in Schedule of Classes. (Y)

5420 Fashion Design: Tailoring. Cr. 3
Prereq: AFA 2410 and 2420. Tailoring techniques applied to coats and suits. Material fee as indicated in the Schedule of Classes. (F)

5430 History of Costume. Cr. 3
Prereq: one art history course or consent of instructor. Survey of historic costumes from prehistoric to present. (F)

5440 Fashion Design: Flat Pattern. Cr. 3 (Max. 6)
Prereq: AFA 2420, 5420 or consent of instructor. Original designs made from a basic sloper. Material fee as indicated in the Schedule of Classes. (Y)

5450 Fashion Design: Draping. Cr. 3 (Max. 6)
Prereq: AFA 2420, 5420, or consent of instructor. Creation of an original garment by draping on a form. Material fee as indicated in the Schedule of Classes. (I)

5460 Merchandising II. Cr. 3
Prereq: AFA 3460. Current trends in merchandising. Emphasis on global aspects. (F)

5470 Visual Merchandising: Display. Cr. 3
Prereq: ADE 1200, ADE 1210, or consent of instructor. Visual merchandising concepts and trends. Relationship of design elements and principles to the tools and structures used in display. Creative experimentation in the various media. Material fee as indicated in the Schedule of Classes. (F,W)

5480 Economics of Merchandising. Cr. 3
Prereq: completion of Math Proficiency Requirements. Application of business theory to merchandising; design and implementation of the merchandise plan. (W)

5992 Supervised Field Experience. Cr. 2-4
Prereq: senior standing. Supervised field experience designed to correlate classroom theory with practical work. (F)

5997 (WI) Seminar. Cr. 3
Prereq: senior standing, completion of English Proficiency Requirement. Topics to be announced in Schedule of Classes. Satisfies the General Education Writing Intensive Course in the Major requirement. (F,W)

6440 Computer-Aided Design for Apparel Design. Cr. 3
Prereq: AFA 5440 or consent of instructor. Use of computer-aided design software applied to apparel design concepts; garment designing, grading, and marker-making. Material fee as indicated in the Schedule of Classes. (W)
**FIBERS COURSES (AFI)**

**2650** Beginning Weaving. Cr. 3
Weaving techniques on a frame loom. Design concepts through application of tapestry, flosse, sumac, inlay and wrapping process. Exploring fabric weaving by using simple weave patterns. Material fee as indicated in the Schedule of Classes. (T)

**2660** Introduction to Fabric Printing and Dyeing. Cr. 3-6 (Max. 6)
Emphasis on color, design, composition. Printing with found objects, stencil, silk screen resist method working with pigment and reactive dye. Material fee as indicated in the Schedule of Classes. (T)

**3650** Intermediate Weaving. (AFI 5650) (AFI 7650) Cr. 3-6 (Max. 12)
Prereq: AFI 2650. Election of more than three credits per semester requires consent of instructor. Designs done on four- and eight-harness looms. Pattern drafting, layer weaving, ikat, and rug techniques offered on a rotating basis. Material fee as indicated in the Schedule of Classes. (T)

**3660** Intermediate Fibers Printing and Dyeing. (AFI 5660) (AFI 7660) Cr. 3-6 (Max. 12)
Prereq: AFI 2660. Continuation of AFI 2660. Deeper study of fiber reactive dye; beginning of development of personal style. Material fee as indicated in the Schedule of Classes. (T)

**5650** (AFI 3650) Weaving: Senior Project. (AFI 7650) Cr. 3-6 (Max. 12)
Prereq: AFI 3650. Election of more than three credits per semester requires consent of instructor. Directed project in weaving. Research and written evaluative statement required. Material fee as indicated in the Schedule of Classes. (T)

**5660** (AFI 3660) Fabric Printing and Dyeing: Senior Project. (AFI 7660) Cr. 3-6 (Max. 12)
Prereq: AFI 3660. Election of more than three credits per semester requires consent of instructor. Extensive project or series of works determined by student; research and written statement. Material fee as indicated in the Schedule of Classes. (T)

**5870** Directed Projects: Fibers. Cr. 3-6 (Undergrad. max. 15; grad. max. 30)
Prereq: consent of instructor. Individual problems. (F,W)

**GRAPHIC DESIGN COURSES (AGD)**

**2240** Orientation to Graphic Design Computer Software. Cr. 3
Prereq: graphic design or interdisciplinary electronic arts concentration; consent of instructor. Introduction to computer layout, drawing and photo manipulation programs used in graphic design. Demonstrations, readings and assignments for development of design computer skills and integration into design process. Material fee as announced in Schedule of Classes. (F,W)

**2250** Typography. Cr. 3
Prereq: ADR 1050, 1060; ADE 1200, 1210; and AGD 2240. Fundamental understanding of structure, history, technology and application of typography, the visualization of language. Functional and experimental aspects of typography; typographic syntax and hierarchies. Material fee as indicated in the Schedule of Classes. (F,W)

**3250** Graphic Design I: Principles and Problem Solving. Cr. 3
Prereq. or coreq: AGD 2250; prereq: ADR 1050, 1060; ADE 1200, 1210; AGD 2240. Visual communication issues and applications: design methodology, problem-solving, relation of form to meaning, typ/image relationships. Material fee as indicated in the Schedule of Classes. (F,W)

**4250** Graphic Design II: Word, Image, and Visual Organization. Cr. 3
Prereq: AGD 2240, 2250, and 3250. Students apply knowledge of typography and visual design principles to specific design situations; emphasis on use of grid systems. Material fee as announced in Schedule of Classes. (F,W)

**5250** Graphic Design III: Complexity and Variety in Design. Cr. 3 (Max. 18)
Prereq: AGD 2240, 2250, 3250, and 4250. Complex design situations. Research and methodology. Project may include package design, instruction manuals, book and brochure design, publication design. Material fee as indicated in the Schedule of Classes. (F,W)

**5260** (WI) Senior Seminar. Cr. 3
Prereq: senior standing. Issues affecting the theory, history, and practice of design; impact of design on society and impact of society on design. Required readings, student presentations, class discussion, slide lectures, guest speakers. Satisfies the General Education Writing Intensive Course in the Major requirement. Material fee as indicated in the Schedule of Classes. (W)

**5700** Special Topics. Cr. 3 (Max. 6)
Prereq: AGD 4250, senior standing or junior standing with consent of instructor. Examination of specific issue in design theory, history or practice. Topics may include: corporate identity, globalization of design, exhibition design, design history. Material fee as announced in Schedule of Classes. (Y)

**5890** Directed Projects: Graphic Design. Cr. 3-6 (Undergrad. max. 9; grad. max. 18)
Prereq: consent of instructor. Individual problems. Material fee as announced in Schedule of Classes. (F,W)

**5990** Field Study: Internship. Cr. 3-6
Prereq: AGD 5250, consent of instructor. Written consent of instructor required if elected for more than three credits. Supervised field experience designated to correlate classroom theory with practical work. (F,W)

**5997** Graphic Design IV: Systems, Series, and Advanced Studies in Visual Communication. Cr. 3
Prereq: AGD 2240, 2250, 3250, 4250, and 5250. Extended student projects such as identity systems with various applications, families of package design, series of form design, or poster series. Possible collaborative projects: extensive research. Material fee as announced in Schedule of Classes. (F,W)

**6260** Advanced Typography. Cr. 3
Prereq: junior standing and completion of AGD 4250. Advanced and experimental typography; typography as an expressive language in 2-D and 3-D; projects in information design. (Y)

**6270** Graphic Design Practicum. Cr. 3
Prereq: senior standing, acceptance of portfolio. Students work on actual graphic design projects with clients from non-profit organizations. Initial discussion with client through delivery of printed work. Material fee as announced in Schedule of Classes. (Y)

**6280** Pre-Press and Production. Cr. 3
Prereq: AGD 4250, junior standing. Preparation of design work for production. How print production influences design concept, connections between pre-press preparation and finished printed work. Field trips and actual print production. Material fee as announced in Schedule of Classes. (S)
INDUSTRIAL DESIGN COURSES (AID)

3300 Introduction to Industrial Design. (AID 5300) Cr. 3 (Max. 9)
Prereq: ADR 1050; coreq: ADE 1210. Introduction to fundamental design methodology through problems involving two-dimensional presentation and three-dimensional form studies. Material fee as indicated in the Schedule of Classes. (F,W)

3310 Presentation. (AID 5310) Cr. 3 (Max. 9)
Prereq: ADR 1050, ADE 1210. Two dimensional visualization, monochromatic and polychromatic sketch techniques using a variety of traditional media. (F,W)

4300 Product Design Engineering. Cr. 3
Open only to College of Engineering students. Students build on basic skills in projects exploring conceptual problem-solving in two dimensions. (F,W)

4600 Transportation Design Engineering. Cr. 3
Prereq: AID 4300. Open only to College of Engineering students. Conceptual projects related to transportation design, utilizing skills developed in AID 4300. (F,W)

5300 (AID 3300) Advanced Studio/Project. Cr. 3 (Max. 9)
Prereq: AID 3300. Election of more than three credits per semester requires consent of instructor. Advanced techniques in presentation of design solutions. Students build upon their ability to communicate two-dimensionally; introduction of digital manipulation and creation software. Material fee as indicated in the Schedule of Classes. (Y)

5310 (AID 3310) Advanced Studio/Project. Cr. 3 (Max. 6)
Prereq: AID 5300. Election of more than three credits per semester requires consent of instructor. Professional techniques in wet and dry media. Full size tape drawings and renderings. Sketch techniques in black and white and color. (F,W)

5330 3-D Modeling. Cr. 3
Prereq: senior standing in industrial design concentration. Principles of three-dimensional modeling. Surface development, rendering, and creation of virtual environments. Material fee indicated in Schedule of Classes. (W)

5997 (WI) Senior Seminar. Cr. 3
Prereq: senior standing in industrial design concentration. Seminar on contemporary issues in industrial design including professional concerns in transportation and product design, presentation, and production. Satisfies the General Education Writing Intensive Course in the Major requirement. (W)

6300 Advanced Studio/Transportation. (AID 7300) Cr. 3 (Max. 6)
Prereq: AID 3300. Election of more than three credits per semester requires consent of instructor. Form and proportion studies. Development of sketch techniques for communicating the complex form of the automotive body. Taught by professional automotive designers. Material fee as indicated in the Schedule of Classes. (F,W)

6310 Advanced Studio/Exhibit. Cr. 3 (Max. 6)
Prereq: AID 5300. Advanced design concepts in exhibit design. Project planning, ideas of brand imaging, phenomenological notions of the spatial experience. Material Fee as announced in Schedule of Classes. (F,W)

6320 History of Modern Design I. Cr. 3
Major design trends in America and Europe from mid-nineteenth century to World War I. Covers a broad spectrum of the applied arts. (F)

6330 History of Modern Design II. Cr. 3
Major design trends in America and Europe from end of World War I through 1950s. Covers a broad spectrum of the applied arts. (W)

INTERDISCIPLINARY ELECTRONIC ARTS COURSES (AIN)

2220 Video Art. Cr. 3
Prereq: ADE 1210 or consent of instructor. Video concepts in history, the visual arts, typography, and performance art; traditional and non-traditional use of video for personal expression. Material fee as indicated in the Schedule of Classes. (W)

3220 Computer Art. Cr. 3
Prereq: AIN 2220 or consent of instructor. Survey of use of computer in history of art; artists' preparations and the practical generation of computer-assisted imagery. Paint, printmaking, and photographic systems; their specific media. Course is designed to stimulate beginning students to experiment with computer tools as an essential part of their creative efforts. No prior computer experience is required. Material fee as indicated in the Schedule of Classes. (W)

4220 Computer Animation I. Cr. 3
Prereq: AIN 3220 or consent of instructor. Study and synthesis of photography, video, painting, printmaking, graphic design, motion and sound. Students use microprocessor system in developing their projects. Equipment, materials, processes and philosophy of the area. Material fee as indicated in the Schedule of Classes. (Y)

4230 Computer Animation II. (AIN 6230) (AIN 7230) Cr. 3
Prereq: AIN 4220 or consent of instructor. Interactive animation, script writing, sound design. Material fee as indicated in the Schedule of Classes. (W)

5220 Interactive Art. Cr. 3
Prereq: AIN 4220 Overview of multimedia software for visual and performing arts; improvised and controlled interaction between the artist, the computer, and interactive devices. Background and methodology for new media: web pages, CD-ROM's MIDI sound design, and virtual reality as art. Material fee as indicated in the Schedule of Classes. (Y)

5830 Directed Projects: Computer/Video/Multimedia. Cr. 3
Prereq: consent of instructor. Individual problems in electronic arts. Material fee as indicated in the Schedule of Classes. (F)

6230 (AIN 4230) Advanced Computer Animation. (AIN 7230) Cr. 3
Prereq: consent of instructor. Advanced study for master's students. Material fee as indicated in the Schedule of Classes. (W)

6830 Internship: Computer/Video/Multimedia. Cr. 3
Prereq: consent of instructor. Supervised field experience in the area of creative computer graphics, computer animation, video, and multimedia and/or interactive media, that correlate with classroom theory and practical work. (F,W)

INTERIOR DESIGN COURSES (AIA)

1610 Architectural Drafting and Perspective Drawing. Cr. 3
Prereq: ADR 1050. Basic architectural drawings: plans, elevations, oblique sections, details, dimensioning and lettering; hand-drawn and basic CAD techniques; development of perspective presentation drawings. Material fee as indicated in the Schedule of Classes. (F,W)

2600 Interior Design. (AID 3600) Cr. 3
Prereq: AIA 1610. Open only to interior design students. Continuation of computer-aided design. Plans, elevations, sections, details, dimensioning and description. System furniture space planning; Windows-based auto CAD. Material fee as indicated in the Schedule of Classes. (W)

2610 Interior Design Studio I. Cr. 3
Prereq: AIA 1610. Single family residential/small-scale office. Presentation techniques; introduction to media and methods used in the
preparation of presentation boards: layout, selection, rendering, plan, elevation, lettering and verbal presentation. Material fee as indicated in the Schedule of Classes. (W)

3610  Interior Design Studio II. Cr. 3
Prereq: AIA 2610. Hospitality/restaurant/health care. Continuation of graphic and presentation skill development incorporating plan, elevation, section, detailing, perspective, hand and CAD drawings. Experimentation with lighting, media, board, and verbal presentation. Material fee as indicated in the Schedule of Classes. (W)

3620  Interior Design: CAD II. Cr. 3
Open only to interior design students. Prereq: AIA 1610, 2600, and 2610. Intermediate-level CAD. Development and creation of construction documents, space planning of interior spaces, and systems layout, using AutoCAD drafting techniques in two- and three-dimensional modes. Material fee as indicated in the Schedule of Classes. (W)

4600  Environmental Design Theory. Cr. 3
Prereq: AIA 2610. Open only to interior design majors. History of interiors: ergonomic, environmental elements. Introduction to building and barrier-free design codes. Acoustical, HVAC and electrical systems. Material fee as indicated in the Schedule of Classes. (F)

4610  Interior Design Studio III. Cr. 3
Prereq: AIA 2600 and 3610. Retail/contract open-office system, medium to large scale, new or adaptive reuse projects. Advanced hand and CAD graphic, presentation skill development, incorporating building and barrier-free codes, HVAC and lighting principles, furniture and equipment specification. Material fee as indicated in the Schedule of Classes. (W)

4620  Interior Perspective and Illustration. Cr. 3
Open only to interior design students. Prereq: AIA 1610, 2610. Visual perspective presentation techniques, including selection, construction, illustration of interior designs. Basic mechanical perspective layout and delineation techniques: pencil, pen, color marker and color pencil to relate effects of texture, volume, and light of interior space. Material fee as indicated in the Schedule of Classes. (F)

4990  Directed Study. Cr. 2-4
Prereq: consent of instructor. (F,W)

5010  Furniture/Product Workshop. Cr. 3
Prereq: AIA 1610, 2610, 5610; consent of instructor. History, ergonomic and design development of furniture and product design. Projects evolve from hand and CAD drawings to scaled models of furniture and product designs. Material fee as indicated in the Schedule of Classes. (Y)

5610  Interior Materials and Systems. Cr. 3
Prereq: junior standing or above in interior design concentration. Estimating, specifying, and the techniques used in the application of materials and systems used in interior design. Lectures, guest speakers, and field trips. Material fee as indicated in the Schedule of Classes. (F)

5620  Building Construction Systems in Architecture I. Cr. 3
Prereq: AIA 2610, 3610. Open only to interior design majors. Residential and commercial construction systems incorporating governmental and building codes; site and foundation to roof systems; small scale hand and CAD documentation of architectural details. Material fee as indicated in the Schedule of Classes. (Y)

5630  Interior Lighting Design and Application. Cr. 3
Prereq: AIA 3610, 4610. Lighting sources, fixtures, manufacturer’s lighting system and application to interior spaces. Basic lighting footcandle calculations; layouts and psychology of lighting description to be applied in a final project. Material fee as indicated in the Schedule of Classes. (W)

5640  Building Construction Systems in Architecture II. Cr. 3
Open only to interior design majors. Prereq: AIA 2600, 4600, 4610, 5620. Development of architectural construction documents: working drawings and written specifications of commercial interior space, plan, elevation, section, details and perspective through hand and CAD documentation. Material fee as indicated in the Schedule of Classes. (W)

5660  Supervised Field Experience. Cr. 3
Prereq: consent of program adviser. Open only to interior design majors. Supervised field study experience designed to correlate classroom theory with professional practice. (F,W)

5991  Directed Projects: Interior Design. Cr. 3-6 (Max. 9)
Prereq: consent of program coordinator. Open only to interior design majors. Individual problems. (F,W)

5997  (WI) Senior Seminar. Cr. 3
Prereq: consent of instructor; senior standing. Investigation of designers, styles, and periods of interior design through charettes and documentation. Resume and portfolio development and review; writing of intensive research paper. (F,W)

6610  Interior Design Studio IV. Cr. 3
Prereq: AIA 4610, 5640. Large-scale new or adaptive re-use: office, hospitality, health-care or retail interior spaces. Professional hand and CAD graphic and skill development. Integration of codes, ADA, human factors, HVAC and lighting principles, furniture and equipment specification related to specific environment. Material fee as indicated in the Schedule of Classes. (W)

6650  Business Practicum. Cr. 2
Prereq: AIA 4610. Open only to interior design majors. Examination of different types of business formations and their characteristics; professional practices and procedures, professional ethics, contemporary topics in interior design practice. (W)

METALS COURSES (AME)

2600  Introduction to Jewelry and Metalsmithing. Cr. 3
Prereq: ADR 1060 and ADE 1210 for art majors. Basic skills: sawing, filing, drilling, sanding, polishing, creating textures on metal, riveting, soldering, and bezel setting of stones. Creation of jewelry and small functional objects. Material fee as indicated in the Schedule of Classes. (T)

3600  Intermediate Jewelry I. (AME 5600) (AME 7600) Cr. 3

3601  Intermediate Jewelry II. Cr. 3
Prereq: AME 3600. Advanced metal fabrication and surface treatment. Topics include: stone setting techniques, acid etching, granulation, keum boo, patination, hunge mechanisms and more complex soldering techniques. (F,W)

4600  Metalsmithing I. Cr. 3-6
Prereq: AME 2600. Utilizing plastic qualities of metal to generate low to middle relief forms. Introduction to hydraulic die forming, chasing and repousse and fold forming. Creation of objects with moderate level of relief and high degree of surface adornment. (F,W)

4601  Metalsmithing II. Cr. 3-6
Prereq: AME 2600. Utilizing plastic qualities of metal to generate high relief forms. Techniques include: raising and sinking, anticlastic and synclastic raising, nonferrous and ferrous forging. How metals may be stretched to create forms with a high degree of volume. (F,W)
PAINTING COURSES (APA)

2100 Basic Painting. Cr. 3
Prereq: ADR 1060 and ADE 1210. Introduction of traditional opaque painting media: oil, gouache, acrylic; materials and techniques. Painting from observation; form and composition. Material fee as indicated in the Schedule of Classes. (T)

2110 Beginning Painting: Water Media. (APA 3110) (APA 5110) Cr. 3
Prereq: APA 2100. Introduction to transparent and opaque water-based media. Composition based on observation and imagination. Material fee as indicated in the Schedule of Classes. (Y)

2120 Beginning Painting: Oil. (APA 3120) (APA 5120) Cr. 3
Prereq: APA 2100. Emphasis on structure of painting within individual’s choice of imagery, either observed or invented. Material fee as indicated in the Schedule of Classes. (T)

3110 (APA 2110) Intermediate Painting: Water Media. (APA 5110) Cr. 3
Prereq: APA 2110. Continued work with watermedia compositions, based on observation or imagination. Material fee as indicated in the Schedule of Classes. (Y)

3120 (APA 2120) Intermediate Painting: Oil and Other Media. (APA 5120) Cr. 3
Prereq: APA 2120. Continued emphasis on structure of painting. Individual development of pictorial, emotional and conceptual aspects of image-making. Material fee as indicated in the Schedule of Classes. (T)

3130 Figure Painting: Water Media. (APA 5130) (APA 7130) Cr. 3
Prereq: APA 2110. Spontaneous and sustained paintings from direct observation of the human figure. Inquiry into the effects of scale, space and emotional responses are encouraged. Material fee as indicated in the Schedule of Classes. (Y)

3140 Figure Painting: Oil and Other Media. (APA 5140) (APA 7140) Cr. 3
Prereq: APA 2120. Sustained and gestural studies of human figure. Individual responses to scale, space, emotional content. Material fee as indicated in the Schedule of Classes. (T)

5060 Advanced Concepts in Drawing and Painting. (APA 7060) Cr. 3-6 (Max. 15)
Prereq: ADR 3070 or APA 3120. Emphasis on individual projects using any appropriate medium. Students select subjects and approaches under faculty guidance; may include lectures, demonstrations, off-campus visits. (Y)

5100 Painting Seminar. Cr. 3 (Max. 6)
Philosophical and analytical inquiry into painting issues, past and present. Current values in art criticism and practice. Visits to studios, museums, galleries and private collections. (Y)

5110 (APA 2110) Advanced Painting: Water Media. (APA 3110) Cr. 3-6 (Max. 18)
Prereq: APA 3110. Election of more than three credits per semester requires consent of instructor. Individual development of work in water media. Representational or abstract compositions. Material fee as indicated in the Schedule of Classes. (T)

5120 (APA 2120) Advanced Painting: Oil and Other Media. (APA 3120) Cr. 3-6 (Max. 18)
Prereq: APA 3120. Election of more than three credits per semester requires consent of instructor. Individual development in painting. Material fee as indicated in the Schedule of Classes. (T)

5130 (APA 3130) Figure Painting Advanced: Water Media. (APA 7130) Cr. 3-6 (Max. 12)
Prereq: APA 3130. Election of more than three credits per semester requires consent of instructor. Individual development in water media based on observation of human figure. Material fee as indicated in the Schedule of Classes. (Y)

5140 (APA 3140) Figure Painting Advanced: Oil and Other Media. (APA 7140) Cr. 3-6 (Max. 12)
Prereq: APA 3140. Election of more than three credits per semester requires consent of instructor. Individual development based on the human figure using any appropriate medium. Material fee as indicated in the Schedule of Classes. (Y)

5810 Directed Projects: Painting. Cr. 3-6 (Undergrad. max. 15; grad. max. 30)
Prereq: consent of instructor. Self-directed work in consultation with graduate faculty on an arranged basis. (F,W)

PHOTOGRAPHY COURSES (APH)

2400 Introductory Photography. Cr. 3
Lectures, demonstrations, projects involving basic camera techniques using color slides. (T)

2410 Beginning Photography. Cr. 3
Prereq: APH 2400. Film processing, printing and presentation in black and white medium. Introduction to basic photographic vocabulary through problem-solving approach. Demonstrations and group techniques. Material fee as indicated in the Schedule of Classes. (T)

2420 Digital Imaging I. Cr. 3
Prereq: APH 2400. Introduction to Macintosh computer basics, followed by scanning and image acquisition methods. Use of resolution and sizing principles. Introduction to Adobe Photoshop software for image editing and creation. Use of saving and storage options and basic printing techniques. Material fee as indicated in the Schedule of Classes. (T)

3410 Intermediate Photography. Cr. 3
Prereq: APH 2410. Further refinement of basic skills and concepts. More advanced techniques. Use of the camera’s manipulative mechanisms. Emphasis on image and idea. Material fee as indicated in the Schedule of Classes. (T)

3420 Digital Imaging II. Cr. 3
Prereq: APH 2420. Advanced work with image editing and manipulation programs. Use of more advanced editing techniques, including masks, paths, layers and channels. Introduction to digital camera and video capture and editing options. Experiment with output methods including transparency and image transfer. Material fee as indicated in the Schedule of Classes. (T)

4410 Advanced Photography. Cr. 3
Prereq: APH 3410. Individual projects using advanced methods and techniques. In-depth photographic investigations exploring the possibilities of personal expression. Material fee as indicated in the Schedule of Classes. (T)

4420 View Camera. (APH 5420) Cr. 3
Open only to photography majors. Basic view camera techniques. Sheet film processing and printing. Studio lighting techniques. Material fee as indicated in the Schedule of Classes. (Y)
4430  Digital Color Photography I. (APH 5430) Cr. 3
Prereq: ADR 3410. Open only to photography majors. Digital color printing. Color theory and image adjustments in photoshop software. Use of digital still cameras. Class projects and group critiques. Material fee as indicated in the Schedule of Classes. (Y)

5420  (APH 4420) Advanced View Camera. Cr. 3-6 (Max. 9)
Prereq: APR 4420. Election of more than three credits per semester requires consent of instructor. Reﬁnement of view camera techniques and advanced lighting techniques. Material fee as indicated in the Schedule of Classes. (Y)

5430  (APH 4430) Digital Color Photography II. Cr. 3-6 (Max. 9)
Prereq: APR 4430. Election of more than 3 credits per semester requires consent of instructor. Open only to photography majors. Use of color as an expressive medium through a variety of lighting situations. Use of digital still cameras. Advanced adjustment and printing techniques. Material fee as indicated in the Schedule of Classes. (Y)

5440  Experimental Photography. Cr. 3-6 (Max. 9)
Prereq: APR 3410. Election of more than 3 credits per semester requires consent of instructor. Open only to photography majors. Work in non-traditional processes including image and emulsion transfer, hand-applied emulsions, laser copy and xerographic transfer. Material fee as indicated in the Schedule of Classes. (I)

5450  Selected Topics in Photography. Cr. 3-6 (Max. 9)
Prereq: APR 4410. Election of more than three credits per semester requires consent of instructor. Topics to be announced in Schedule of Classes. Material fee as indicated in the Schedule of Classes. (I)

5500  (APR 3500) Advanced Serigraphy. (APR 7500) Cr. 3-6 (Max. 15)
Prereq: APR 3500. Election of more than three credits per semester requires consent of instructor. Advanced problems in intaglio. Multiplate and rollup color printing. Photo intaglio techniques, experimental media. Material fee as indicated in the Schedule of Classes. (F,W)

5510  (APR 3510) Advanced Relief and Experimental Printmaking. (APR 7510) Cr. 3-6 (Max. 21)
Prereq: APR 3500 and 5490. Election of more than three credits per semester requires consent of instructor. Traditional relief methods: woodcut, wood engraving, linocut; also monoprint and monotype, constructed prints, other experimental approaches. Material fee as indicated in the Schedule of Classes. (I)

5840  Directed Projects: Printmaking. Cr. 3-6 (Undergrad. max. 15; grad. max. 30)
Prereq: consent of instructor. Individual problems. (F,W)

PRINTMAKING COURSES (APR)

2300  Introduction to Printmaking. Cr. 3
Prereq: ADR 1050, ADE 1200. Introduction to a variety of printmaking media including etching, monoprint, serigraphy and woodcut. Material fee as announced in Schedule of Classes. (Y)

3470  Photo-Processes for Printmaking (APR 5470) (APR 7470).Cr. 3
Prereq: one course from ADR 1050, AGD 2240, AIN 2220, APH 2410. Processes for lithography, intaglio, and serigraphy using hand-drawn, computer-generated, or photo-generated positives. (F)

3480  Beginning Intaglio Printmaking. Cr. 3 (Max. 6)
Prereq: ADR 1060 and ADE 1210. Basic metal plate techniques: etching, aquatint, engraving, drypoint, soft ground, lift ground. Material fee as indicated in the Schedule of Classes. (T)

3490  Beginning Lithography. (APR 5490) (APR 7490) Cr. 3 (Max. 6)
Prereq: ADR 1060 and ADE 1210. Fundamentals of stone and plate lithography. Black and white prints made. Material fee as indicated in the Schedule of Classes. (T)

3500  Beginning Serigraphy. (APR 5500) (APR 7500) Cr. 3
Prereq: ADR 1060 and ADE 1210. Introduction to basic techniques of screen printing. Material fee as indicated in the Schedule of Classes. (Y)

3510  Beginning Relief and Experimental Printmaking. (APR 5510) (APR 7510) Cr. 3
Prereq: ADR 1060, ADE 1210. Traditional relief methods: woodcut, wood engraving, linocut; also monoprint and monotype, constructed prints, other experimental approaches. Material fee as indicated in the Schedule of Classes. (T)

5470  (APR 3470) Advanced Photo-Processes for Printmaking (APR 7470).Cr. 3
Prereq: consent of instructor. Processes for lithography, intaglio, and serigraphy. (F)

5480  Advanced Intaglio Printmaking. (APR 7480) Cr. 3-6 (Max. 21)
Prereq: APR 3480. Election of more than three credits per semester requires consent of instructor. Advanced problems in intaglio. Multiplate and rollup color printing. Photo intaglio techniques, experimental media. Material fee as indicated in the Schedule of Classes. (F,W)

5490  (APR 3490) Advanced Lithography. (APR 7490) Cr. 3-6 (Max. 21)
Prereq: APR 3490. Election of more than three credits per semester requires consent of instructor. Advanced problems in lithography. Black and white, multicolor, transfer methods. Material fee as indicated in the Schedule of Classes. (F,W)

5550  (APR 3550) Advanced Screen Printing. Cr. 3-6 (Max. 15)
Prereq: APR 3550. Election of more than three credits per semester requires consent of instructor. Advanced problems in printmaking. Photo transfer, multi-media approaches. Material fee as indicated in the Schedule of Classes. (I)

5830  Directed Projects: Printmaking. Cr. 3-6 (Undergrad. max. 15; grad. max. 30)
Prereq: consent of instructor. Individual problems. (F,W)

SCULPTURE COURSES (ASL)

2150  Beginning Sculpture. Cr. 3
Prereq: ADR 1060, ADE 1210. Instruction in traditional techniques and concepts of sculpture including modeling the ﬁgure from observation using clay, moldmaking, carving, construction, and casting. Lectures, demonstrations, critiques. Material fee as indicated in the Schedule of Classes. (T)

3150  Intermediate Sculpture. (ASL 5150) (ASL 7150) Cr. 3
Prereq: ASL 2150. Contemporary concerns in sculpture. Idea, scale, site, light, movement, and serial forms. Material fee as announced in Schedule of Classes. (T)

3160  Intermediate Sculpture: Non-Figurative. (ASL 5160) (ASL 6160) (ASL 7160) Cr. 3
Prereq: ASL 2150. Emphasis on non-figurative forms employing wider range of techniques: welding, foundry and plastics. Material fee as indicated in the Schedule of Classes. (T)

3170  Figurative Sculpture. (ASL 5170) Cr. 3
Prereq: ASL 2150. Instruction in traditional, representational, figurative sculpture. Historical examples, concepts and techniques. Basic anatomy, observation, modeling, gesture, proportion, plane, volume, mass, texture, portraiture; use of calipers, armatures, and moldmaking. Carving, construction, and casting are optional. Material fee as indicated in the Schedule of Classes. (I)

3190  Metal Casting and Fabrication I. Cr. 3
Prereq: ASL 2150 or consent of instructor. Creation of sculpture using metal. Bonded-sand and investment casting using bronze and aluminum; chasing and patinas; oxy-acetylene, stick, mig, and tig welding; plasma cutting. Material fee as announced in Schedule of Classes. (Y)
5150  (ASL 3150) Advanced Sculpture. (ASL 7150) Cr. 3-9
Open only to sculpture majors. Prereq: ASL 2150, 3150, 3170, 3190. Development of personal and professional body of work. Discussions, lectures, assignments. Material fee as announced in Schedule of Classes. (T)

5160  (ASL 3160) Advanced Sculpture: Non-Figurative.
(ASL 6160) (ASL 7160) Cr. 3-6 (Max. 18)
Prereq: ASL 3160. Election of more than three credits per semester requires consent of instructor. Continuation of ASL 3160. Emphasis on advanced and self-directed problems in non-figurative sculpture. Material fee as indicated in the Schedule of Classes. (T)

5170  (ASL 3170) Advanced Sculpture: Figurative.
Cr. 3-6 (Max. 18)
Prereq: ADR 3090 and ASL 3170. Election of more than three credits per semester requires consent of instructor. Emphasis on portfolio of work and professional plans. Material fee as indicated in the Schedule of Classes. (Y)

5180  Sculpture: Advanced Technology. Cr. 3-6 (Max. 18)
Prereq: ASL 5160 or 5170. Election of more than three credits per semester requires consent of instructor. One major project which explores the application of non-traditional materials and technologies: research, industrial liaisons, equipment. Material fee as indicated in the Schedule of Classes. (I)

5190  Metal Casting and Fabrication II. Cr. 3-6
Prereq: ASL 3190. Development of ideas and skills using either casting or fabrication or both. Material fee as announced in Schedule of Classes. (Y)

5810  Special Topics in Sculpture. Cr. 1-6
Open only to sculpture majors. Prereq: ASL 2150, 3150, 3170, and 3190. Topics to be announced in Schedule of Classes. Material fee as announced in Schedule of Classes. (Y)

5820  Directed Projects.
Cr. 3-6 (Undergrad. max. 15; grad. max. 30)
Prereq: consent of instructor. Independent projects done in consultation with instructor. (F,W)

6160  (ASL 3160) Non-Figurative Sculpture. (ASL 5160)
(ASL 7160) Cr. 3-6 (Max. 18)
Prereq: ASL 5160. Open only to sculpture majors. Election of more than 3 credits per semester requires consent of instructor. Continuation of ASL 5160. Expansion of concepts and expressive form. Emphasis on portfolio of work and professional plans. Material fee as indicated in the Schedule of Classes. (T)

6170  (ASL 3170) Figurative Sculpture. (ASL 5170) (ASL 7170)
Cr. 3-6 (Max. 18)
Prereq: ASL 5170 and 5180. Open only to sculpture majors. Election of more than 3 credits per semester requires consent of instructor. Continuation of ASL 5170. Emphasis on concepts and expressive form, portfolio of work and professional plans. Material fee as indicated in the Schedule of Classes. (Y)

SPECIAL ART COURSES (ACS)

5997  (WI) Senior Seminar in the Visual Arts. Cr. 3
Prereq: senior standing in a BFA degree program; prior consent of undergraduate adviser. Must be taken in final 15 credits before graduation. Interdisciplinary seminar on contemporary issues in the visual arts including studio practices, history, and criticism. Satisfies the General Education Writing Intensive Course in the Major requirement. (F,W)

ART HISTORY COURSES (A H)

1000  (VP) Introduction to Art. Cr. 4
Forms and functions of art; uses of art; roles of the artist; iconography and symbols. (T)

1110  (VP) Survey of Art History: Ancient through Medieval. Cr. 3-4
Offered for four credits only to Honors students. Survey of traditions and major developments in visual expression in the West, prehistory through Medieval period. Art studied in context of its cultures; techniques of visual analysis. (T)

1120  (VP) Renaissance through Modern Art Survey. Cr. 3-4
Offered for four credits to Honors students only. Traditions and developments in visual expression in the West, Renaissance through twentieth century. Art in context of its cultures; techniques of visual analysis. (T)

3010  Art in the United States. Cr. 3
Prereq: A H 1110. Works by major American artists, architects and artisans from colonial times to the present. Works are examined both as reflections of the aesthetic interests of their times and as cultural-historical documents. (Y)

3070  Art and Archeology of Ancient Egypt. Cr. 3
An introduction to the history and development of Egyptian artistic style in architecture, sculpture, painting and the applied arts; historical, social and religious background. (I)

3210  Greek and Roman Art. Cr. 3
Painting, sculpture and architecture of ancient Greece and Rome. Form and meaning of the works and how they functioned within society. (I)

3240  Mythology in Greek Art. Cr. 3
Mythology as subject matter of statues, wall paintings, temple decorations, and vase painting of ancient Greece. (I)

3410  Monasticism and the Arts in the Middle Ages. Cr. 3
Prereq: A H 1110. Monasticism as a driving force in medieval culture; art and architecture produced by and for Christian religious communities, A.D. 300-1400. (I)

3470  Islamic Art and Architecture. Cr. 3
Survey of art and architecture of Islam from its origins in the seventh century to the Ottoman Empire. (I)

3700  Modern Art for the Studio Artist. Cr. 3
Prereq: one 1000-level art history course. Introduction for studio art majors: ideas and styles of modern art. The gap between those who make art and those who write about it. Access to the discipline of art history through tracing the origins of a variety of contemporary art practices. (Y)

3750  African American Art. (AFS 3750) Cr. 3
Prereq: one 1000-level Art History course. Introduction to African American art from the colonial period to the present, with emphasis on the U.S. and some attention to South and Central America and the Caribbean. (Y)

3800  Arts of Africa. Cr. 3
Selected sub-Saharan African arts including body aesthetics, decorative arts, figurative wood sculpture, masking traditions, royal or kingdom arts, and domestic-sacred architecture. (Y)

3820  North American Indian Art. Cr. 3
Survey of the visual arts of North American Indian cultures. (I)

5010  Alternative Media. Cr. 3
Exploration of media not normally dealt with in courses on modernism: such as video, performance, installations, and computer technologies. (I)
5090  Theory and Methods of Art Historical Research.  
Cr. 3  
Prereq: consent of instructor. Introduction to the methods of research in art history. History of the discipline’s methodology examined through selected readings.  
(I)

5200  Early Greek Art. Cr. 3  
Aegean and Greek Art from the beginning of the Bronze Age (c. 3000 B.C.) to end of the Archaic period (c. 480 B.C.).  
(B)

5210  Hellenistic Art. Cr. 3  
Sculpture, painting and architecture of the Greek world from Alexander the Great to Cleopatra.  
(I)

5250  Ancient Rome. Cr. 3  
Development of Rome into an imperial capital. Design, function and political significance of public monuments in the city.  
(I)

5260  Classical Greek Art. Cr. 3  
Greek painting, sculpture and architecture of the fifth and fourth centuries B.C. Emphasis on decorative programs of temples and cult statues.  
(I)

5270  Roman Painting and Sculpture. Cr. 3  
Prereq: A H 1110, 1120. Painting and sculpture of the Roman Republic and Empire, and their cultural context.  
(I)

5300  Early Christian Art and Architecture. Cr. 3  
(B)

5310  The Ancient City of Athens. Cr. 3  
The history of Athens as an urban center in antiquity. Public monuments, buildings and landscape as reflecting the city’s aspirations and fortunes.  
(I)

5320  Classical Architecture in Britain and the United States. Cr. 3  
Imitation and manipulation of ancient Greek and Roman architectural forms in Britain, its North American colonies and the United States from the seventeenth through the early nineteenth centuries.  
(I)

5330  Constantinople in the Sixth Century. Cr. 3  
Art and architecture of Constantinople in the Sixth Century.  
(I)

5350  Byzantine Art and Architecture. Cr. 3  
(Y)

5400  Art and Architecture of the Early Middle Ages. Cr. 3  
Art and architecture in Western Europe from the Dark Ages through the twelfth century.  
(I)

5410  Gothic Art and Architecture. Cr. 3  
Gothic art and architecture in Western Europe from 1140 to 1400, including manuscripts, metalwork, stained glass, as well as the architectural context in which they were used.  
(I)

5450  Art and Architecture in the High Middle Ages. Cr. 3  
(I)

5500  Early Renaissance in Italy. Cr. 3  
Art and architecture from Giotto to Botticelli; transformation of late medieval art prior to Black Death, classical revival in Florence; North Italian artists such as the Bellinis and Mantegna.  
(B)

5510  High Renaissance and Mannerism in Italy. Cr. 3  
The art of Leonardo, Raphael, Michelangelo, Titian, and their contemporaries.  
(I)

5530  Northern European Painting in the Fourteenth and Fifteenth Centuries. Cr. 3  
Northern painting from its sources in the Franco-Flemish manuscript tradition and Bohemian schools to the great masters of the fifteenth century.  
(B)

5550  Flemish and German Painting in the Sixteenth Century. Cr. 3  
Development of Flemish and German painting from 1475 to 1600, with emphasis on the art of Bosch, Breugel, Durer, Grunewald and Holbein.  
(B)

5700  Nineteenth Century European Painting. Cr. 3  
(B)

5710  Trends in Nineteenth Century Art. Cr. 3  
Prereq: A H 1110, 1120. Topics to be announced in Schedule of Classes.  
(B)

5715  Modernism: Nineteenth and Twentieth Centuries. Cr. 3  
(B)

5720  Twentieth Century Art. Cr. 3  
Prereq: A H 1110, 1120. European and American paintings, sculpture, and new media surveyed from 1900 to present.  
(B)

5735  Art 1900-1945. Cr. 3  
Prereq: A H 1110, 1120. European and American avant-garde art, Dada and Surrealism, the interwar period, and Abstract Expressionism.  
(B)

5745  Art Since 1945. Cr. 3  
Prereq: A H 1110, 1120. European and American art from the post-war period through movements including conceptualism, minimalism, and post-modernism.  
(B)

5750  Contemporary American Art. Cr. 3  
Prereq: A H 1110, 1120. Major developments in American painting and sculpture from the Armory Show to the 1970s.  
(I)

5770  Paris in the Nineteenth Century. Cr. 3  
(B)

5780  Topics in Twentieth-Century Art. Cr. 3  
Prereq: A H 1110, 1120. Topics to be announced in Schedule of Classes.  
(Y)

5790  History of Photography. Cr. 3  
Prereq: one 1000-level art history course or above, or consent of instructor. Technical, aesthetic and historical development of the art of photography from its invention to the present.  
(B)

5820  Precolumbian Art of South and Central America. Cr. 3  
Prereq: A H 1110, 1120. Lecture-survey of art and architecture produced by the Precolumbian civilizations of Peru, Central America and Mexico, including the traditions of Chavin, Tiahuanaco, Inca, Maya, Olmec, Teotihuacan, Toltec and Aztec.  
(B)

5890  Museums in Art History. Cr. 3  
Prereq: A H 1110, 1120. The development and function of the art museum from 300 B.C.E. to the present with emphasis on the museum’s role in the institutionalization of art history, collection and criticism.  
(B)
5990 Directed Study. Cr. 1-3
Prereq: consent of instructor. Open only to art history majors. Supervised advanced reading and research in the history of art. (F,W)

5993 (WI) Writing Intensive Course in Fine Arts. Cr. 0
Prereq: junior standing, satisfaction of English Proficiency Requirement, completion of A H 1110, 1120 and one other A H course at 2000-level or above; coreq: A H course at 3000-level or above. Offered for S and U grades only. No degree credit. Required for all majors. (F,W)

5997 Seminar. Cr. 3
Prereq: junior standing or above; A H 1110, 1120. Readings, discussion, and research paper on special topics in art history; topics to be announced in Schedule of Classes. Graduate students undertake research paper in addition to other assignments. (Y)

6730 Contemporary Theory and the Visual Arts. Cr. 3
Undergrad. prereq: consent of instructor. Methodological application of post-structuralist critical theory to the study of art and art history. (Y)

COMMUNICATION

Office: 585 Manoogian Hall; 313-577-2943
Web: http://www.comm.wayne.edu
Interim Chairperson: Robert K. Avery
Academic Services Officer: Victoria Dallas

Professors
Robert K. Avery, Charles E. Bantz, Bernard L. Brock (Emeritus), Benjamin Burns, Jack Kay, Linda Moore, Edward J. Pappas (Emeritus), Sandra Petronio, Raymond S. Ross (Emeritus), George W. Ziegelmaueller

Associate Professors
Jackie Byars, Mary M. Garrett, Larry D. Miller, Matthew W. Seeger, Lawrence Silverman (Emeritus), John W. Spalding (Emeritus), Richard A. Wright

Assistant Professors
Jack Cronin, Daniel Marcus, Hayg H. Oshagan, William Trapani, Laura L. Winn

Lecturers
Kimberly Campbell, Sandra C. Birdiett, Donyale Goss, Jack Lessenberry, Michele A. Major, Ruth Seymour, Joel Silvers, Ronald J. Stevenson

Degree Programs
BACHELOR OF ARTS with a major in journalism
BACHELOR OF ARTS with a major in media arts and studies
BACHELOR OF ARTS with a major in public relations
BACHELOR OF ARTS with a major in speech communication
*MASTER OF ARTS with a major in communication and concentrations in: public relations and organizational communication; media arts; media studies; speech communication education; speech communication; or speech communication studies

*DOCTOR OF PHILOSOPHY with a major in communication and concentrations in: speech communication; media arts and studies; or communication studies

The primary aim of this department is to assist students in developing the ability to communicate effectively and to understand the principles of communication theory. The variety of degree programs provides broad liberal arts education as well as specific career training. Undergraduate and graduate majors may prepare for careers in a variety of fields: industrial relations; sales; personnel; public relations; radio, television, film; journalism; teaching; law; and the ministry.

The department sponsors a large number of student activities that are available to all University students. These include intercollegiate debate and speech teams. Wayne State University has undergraduate chapters of The Society of Professional Journalists, Lambda Pi Eta, Women in Communication, Forensic Union, Delta Sigma Rho, Tau Kappa Alpha, the Radio-TV and Film Student Association, and the Public Relations Student Society of America. There are talent scholarships available to students interested in forensics or debate.

* For specific requirements, see the Wayne State University Graduate Bulletin.
Bachelor of Arts Degrees

Admission Requirements are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the Bachelor’s degree must complete 120 credits of course work including satisfaction of the University General Education Requirements (see page 23). College degree requirements (see page 178), as well as the major requirements of one of the programs listed below. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 173.

A major will complete at least thirty but not more than forty-six credits in the department. Any course work elected over the forty-six credit maximum must have prior approval of both adviser and chairperson if the additional credits are to count toward the degree (120 credits). At least twelve credits are required in residence within the major. Students should see their adviser about completing the Writing Intensive competency requirement. A proper distribution of courses approved by the student's adviser is important.

Writing Intensive (WI) Requirement: The University General Education Program requirement of a writing intensive course in the major may be fulfilled by taking COM 3400 (speech communication), COM 4170 (public relations), COM 4100 (journalism), COM 5270 (film studies), or COM 3010 (media arts and studies). The writing intensive course should be taken during the junior year after satisfactory completion of the English Proficiency Examination.

With a Major in Journalism

Major Requirements: Journalism majors plan careers in news editorial, advertising, broadcast, or media relations. Journalism majors must have at least a ‘C’ average in their sequence courses to graduate. A journalism adviser must be consulted for verification of requirements which go beyond the College’s requirements, such as additional course work in history, the social sciences and literature.

The core courses for journalism majors are: COM 1500, 2030, 2050, 2100, 3100, 3210, 4100, 4250, 5080, 5250, and 6190. COM 5250 is the senior assessment capstone course and should be taken in the last twenty-one credits of the student’s program. Students must take an additional nine credits in electives from an approved list focusing on their specific area of career interest.

Journalism Institute for Minorities: The Journalism Institute for Minorities is a four-year departmental program designed to recruit and train talented minority students for careers in mass communication. The Institute pools the resources of the University, the business community and Detroit area media professionals to provide scholarships and internships for its students. For additional information contact: Director, Journalism Institute for Minorities, Wayne State University, Journalism Program, 191 Manoogian, Detroit, MI 48202; telephone: (313) 577-6304.

With a Major in Media Arts and Studies

Undergraduate majors in this program must take COM 1500, 1600, 2010, and 2210. After completion of these courses with a grade of ‘C’ or better, students will be allowed to declare a major and to take higher-level courses and may proceed on a course of study: either the Studies Track, or the Production Track.

Studies Track majors must take COM 2020, 3010 (WI), 5010, 5060, and 5510. COM 5510 is the senior assessment capstone course and should be taken in the last twelve credits of the student’s program.

Production Track majors must take COM 3010 (WI), 4310, 4410, 5380, and 5400. COM 5400 is the senior assessment capstone course and should be taken in the last twelve credits of the student’s program.

Nine additional elective credits in media arts and studies courses are required of both the Production and Studies Track majors. A total of forty credits in the major are required for graduation.

For a related major in Film, see the Film Studies program, page 200.

With a Major in Public Relations

Students electing this major typically seek employment in one of the many career opportunities in public relations: business and industry; non-profit organizations; trade associations; government service; education; or account executive positions in an agency. Some students later pursue graduate-level study in fields such as organizational communication.

Major Requirements: Four Public Relations core courses are required: COM 3170, 4170, 4210, and 5160. The following courses are also required: COM 1500, 2030, 2050, 2100, 2160, 2170 or 3300, 2210, 3210, 3250, 3400, 5210 or 5300.

Recommended electives include an internship (COM 6190), as well as courses in Journalism (COM 4100) and Speech Communication (COM 2200 and 3270). An adviser should be consulted early in the student's program. Direct inquiries to 531 Manoogian Hall (577-2946).

With a Major in Speech Communication

A major in Speech Communication offers students an opportunity to develop excellent communication skills and a thorough knowledge of the theory of human communication. Speech communication majors take a variety of courses in which they develop exceptional skills in public speaking, interpersonal communication and group communication.

Employers in business, government, and education identify excellent communication skills as the most important quality they desire in hiring employees. Speech Communication majors find careers in many different fields including business, government, education, law and religion.

The degree of Bachelor of Arts with a major in speech communication is offered in two concentrations — Speech Communication, and Speech Communication Education:

Speech Communication: All majors in this concentration must elect the following core courses: COM 1010, 2110, 2160, 3400 (WI), 4210, and 5030. COM 5030 is the senior assessment capstone course and should be taken in the last twenty-one credits of the student’s program. An additional eighteen credits in speech communication courses are required and should be selected as follows:

1) Twelve credits in one area of specialization. The areas of specialization are:
   b) Family/Health/Interpersonal Communication: COM 2200, 2300, 3260, 3270, 4030, 4040, 4050, 4180, 6170, 6171.
   c) Organizational/Managerial Communication: COM 3300, 3170, 3250, 4170, 5160, 5220, 6200, 6250, 6350.
2) Six elective credits in communication (COM) courses in addition to those required by the core and the area of specialization.

Speech Communication Education: All majors in this concentration must elect the following core courses: COM 1010, 1500, 2170, 2200, 3250, 3270, 3400 (WI), 4040, 4210, 5030, and 6060. COM
5030 is the senior assessment capstone course and should be taken in the last twenty-one credits of the student’s program. An additional three credits in speech communication courses are required and should be selected from among the following: COM 1600, 2110, 2160, 2190, 3200, 4030, 4180, and 6070.

A strong minor (18-24 credits) in the Department of English is recommended. Consult an adviser in the College of Education regarding requirements for the Michigan Teaching Certificate.

Honors Program

The departmental Honors Program is available to students in the areas of media arts and studies, journalism, and speech communication. This program offers capable students the opportunity to pursue independent study and to work closely with department faculty members. All honors students must write a senior honors essay under the direction of a faculty adviser. Completion of the honors major results in an honors degree designation on the diploma.

Requirements: In order to enter the departmental program students must have achieved junior standing and an overall grade point average of at least 3.5. Students must meet all regular major requirements as well as the following courses: the honors section of COM 1010, 4996, 5510, and 5110 or 5120. By graduation, honors students are also required to take at least fifteen credits in departmental courses at the 5000- and 6000-level. However, this requirement cannot be satisfied by taking any practical skills courses or internships.

In addition to the departmental curriculum, the student must elect at least fifteen credits in honors-designated courses, from those in the department and those given by other departments, including at least one 4000-level seminar offered through the Liberal Arts Honors Program (see page 274). For further information about seminar topics or other honors-designated courses, consult the College of Liberal Arts section of the Schedule of Classes, under ‘Honors Program.’

Minor and Cognate Study

The following minors are available in the department and should be pursued in consultation with an adviser in each of the specialized areas of concentration. While a minor designation does not appear on the diploma, it will be noted on the student’s transcript.

Minor in Speech Communication: A minor in this area requires: COM 1010, 2160, 2170, 2200, 3400 and one additional speech communication course selected in consultation with an adviser.

Minor in Journalism: A minor in this area requires: COM 1500, 2030, 2050, 2100, 3210, 4100, 5080, and one additional journalism course selected in consultation with an adviser.

Minor in Media Arts and Studies: A minor in this area requires: COM 1500, 1600, 2010, 2210, and six credits elected from among the following courses: COM 2020, 2230, 3010, 4310, 4410, 5010, 5060, 5380 and 5510.

Minor in Public Relations: A minor in this area requires: COM 1500, 2030, 2050, 2100, 2160, 3170, 3210, 3250.

Departmental Scholarships

See the section on Scholarships and Financial Aid on page 175. Detailed information on all Department scholarships and awards is available in the department office.

JOURNALISM

W. Sprague Holden Memorial Scholarship in Journalism: Award of up to $2000 open to any outstanding journalism major.

Journalism Institute for Minorities: Award of full resident tuition open to any high school senior or undergraduate student with minimum 3.0 g.p.a., writing skills and evidence of potential in the communication field.

Georges M. and Mabel H. Slocum Scholarship in Journalism: Award of $250 - $1000 open to any journalism major with outstanding scholarship and demonstrable financial need.

David Wilkie Scholarship in Journalism: Award open to any journalism major of at least junior class standing who has demonstrable scholastic achievement and financial need.

SPEECH COMMUNICATION

George Bohman - Rupert Cortright - Elizabeth Youngjohn Award Fund: Award of $100 - $200 is open to any student specializing in debate.

David and Alice Goldman Award: Award of $150 - $200 open to outstanding freshman debaters.

Raymond and Alice Hayes Scholarship Fund: Award of $150 - $200 open to any student specializing in debate.

Talent Award: Monetary award renewable for four years based on continuance in debate program open to any high school debate student admitted to W.S.U.

PUBLIC RELATIONS

Renee M. Abraham-Harries Endowed Memorial Scholarship in Public Relations: Award open to public relations students entering their junior or senior year who have demonstrated academic excellence and the ability to make a meaningful contribution in the area of public relations.

Jeannine Gregory Memorial Scholarship in Public Relations: Award is open to public relations students entering their junior or senior year who have demonstrated leadership abilities in public relations.

UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

COMMUNICATION (COM)

1010 (OC) Oral Communication: Basic Speech. Cr. 3 (LCT: 2, LAB 1)
No credit after former SPB 2000. No new students admitted after first week of classes. Beginning course emphasizing fundamentals of speech preparation. Development of poise and confidence in speaking. Majors in department are required to take course for three credits, which includes persuasive speaking component and additional presentations.

1500 Survey of Mass Communication. Cr. 3
Required of journalism and media arts and studies majors. Introductory course in understanding communication theory and effects and the communication industry in the United States.

1600 Introduction to Audio-Television-Film Production. Cr. 3
Introduction to production techniques and processes; hands-on use of image and sound recording and editing equipment; creation of dramatic and documentary projects. Material fee as indicated in the Schedule of Classes.

2010 (ENG 2450) (VP) Introduction to Film. Cr. 4
Examination of film techniques and basic methods of film analysis. Material fee as indicated in the Schedule of Classes.

2020 (VP) History of Film. (ENG 2460) Cr. 3
Critical study of the motion picture as a modern visual art; screening and analysis of representative fiction films to illustrate important his-
torical periods and genres. Material fee as indicated in the Schedule of Classes.

2030  Journalistic Grammar and Style. Cr. 2
Grammar use in journalism; Associated Press Style Book. (T)

2040  Voice and Articulation. Cr. 3
Laboratory for individual improvement in voice and articulation. Analysis of voice and articulation of each student followed by intensive exercise. (T)

2050  (CL) Using Computers in Journalism. Cr. 1
Prereq: basic typing skills. Teaches students how to develop computer skills and do database research. (T)

2110  (CT) Argumentation and Debate. Cr. 3
Prereq: completion of oral communication competency requirement. Logical and legal foundation of the argumentation process; practical experience in analysis, reasoning, case-building, evaluation of evidence, refutation and cross-examination. (T)

2160  (PL) Contemporary Persuasive Campaigns and Movements. Cr. 3
Critical discussion of the social foundations and values underlying human persuasion. Analysis of persuasive strategies and techniques used in contemporary society: political campaigns, social movements, advertising and consumerism in the U.S. (F,W,Y)

2170  Persuasive Speaking. Cr. 3
Prereq: COM 1010 or equiv. Audience analysis and motivation; choice, arrangement, adaptation of materials. Talks to win attention, secure action, overcome prejudice and hostility. Theory and practice of social psychology as applied to persuasion. (T)

2190  Rhetoric in Western Thought. Cr. 3
Prereq: sophomore standing or above, COM 1010 or equiv. Major trends in rhetorical theory from classical times to the present; analysis and criticism of theoretical concepts in speechmaking and persuasion. (Y)

2200  Interpersonal Communication. Cr. 3
Introduction to theory and research on interpersonal communication; analysis of everyday communication situations; practice in interpersonal communication. (T)

2210  Writing for Radio-Television-Film. Cr. 3
Prereq: completion of University-required Intermediate-level Composition Course with grade of C or above. Application of writing principles to various forms of copy; continuity, commercials, public service announcements, features, documentary, drama. (T)

2230  Radio and Television News Reporting. Cr. 4
Prereq: COM 2100; must have access to cassette tape recorder. Theory and practice in broadcast media performance and reporting. (T)

2240  Forensics Practicum. Cr. 1-2 (Max. 6)
Prereq: COM 2110 or consent of instructor. Two credits only with consent of instructor. Training and participation in debate and contest speaking. (T)

2280  Photojournalism. Cr. 3
Still photography in print media. Camera, lighting and composition techniques for handling news, portrait, feature and illustration photographs. Students must supply an adjustable 35mm camera and film, to complete graded assignments. Journalism skills course. (Y)

2300  Intercultural Communication. Cr. 3
Culture-general instruction in intercultural communication skills and theory. Field trips, simulations and conversations between international and U.S. students provide intensive intercultural exposure and exploration. (F)
4030 Gender and Communication. (W S 4030) Cr. 3
Analysis of gender communication issues within interpersonal, group, organizational, intercultural, public, and mass mediated contexts. (Y)

4040 Diversity in Interpersonal Communication. Cr. 3
Issues and topics related to the study of communication behaviors and patterns in gender, race, social class, and sexual orientation within the United States. (Y)

4100 (WI) Feature Writing. Cr. 4
Prereq: COM 2100. Advanced news reporting, focusing on feature writing. (T)

4170 (WI) Public Relations Writing. Cr. 3
Prereq: COM 3170. Writing for public relations purposes: backgrounders, fact sheets, press releases; brochures and newsletters. (Y)

4180 Family Communication. Cr. 3
Message patterns and social signals in organized, systemic human units that are interdependent, usually due to blood connections, legal bonds, and/or explicit verbal commitments. (B)

4210 Introduction to Research Methods in Communication and Public Relations. Cr. 3
Prereq: junior standing. Quantitative and qualitative research methods designed to advance knowledge about human communication across applied settings and diverse contexts. (W)

4240 (AFS 4240) African Americans in Broadcasting. Cr. 4
Historical overview of African Americans in radio and television with emphasis on three areas of study: news and documentary; entertainment and advertising; and ownership, employment and access. (Y)

4250 Reporting Race, Sex, and Culture. Cr. 3
Prereq: COM 2100 and 4100. Issues of gender, culture and race in media coverage, with some content analysis. Preparation for students to handle this content with sensitivity and accuracy. (T)

4310 Audio Production. Cr. 4
Prereq: admission to radio-TV major, or COM 1600 and consent of instructor. Theory and practice in sound production techniques and experimentation with creative audio production. Material fee as indicated in the Schedule of Classes. (T)

4410 Television Production. Cr. 4
Prereq: admission to radio-TV major, or COM 1600 and consent of instructor. Theory and practical application of techniques used in television production; utilization of graphic materials, design and staging concepts, lighting techniques and studio operation; the role of the television producer-director. Material fee as indicated in the Schedule of Classes. (T)

4990 Directed Study. Cr. 1-3 (Max. 4)
Prereq: COM 2100; written consent of adviser, professional studies director and department chairperson. Open only to journalism majors. Supervised individual research. (T)

4996 Honors Seminar in Speech Communication. Cr. 3
Prereq: admission to department honors program; written consent of adviser and department chairperson. Overview of theory and research in speech communication. Design of individual research topics. (T)

4997 Senior Assessment Essay in Film Studies. Cr. 1
Prereq: senior standing, written consent of adviser. Required of film studies majors in term of graduation. Preparation of formal paper demonstrating knowledge of methods of film analysis, film history, and film theory. (T)

5010 History of Television and Radio. Cr. 4
Prereq: admission to radio-TV major or COM 1500 and consent of instructor. History of electronic media; development of industry; rise of genres and styles; social and political impact. (Y)

5020 Studies in Film History. Cr. 4 (Max. 12)
Prereq: admission to media arts and studies major, or COM 2010 and consent of instructor. Analysis of the development of a specific film genre, a director, or other historical aspect of the motion picture. Topics to be announced in Schedule of Classes. Material fee as indicated in the Schedule of Classes. (Y)

5030 Communication Ethics. Cr. 3
Capstone course for speech communication majors; must elect in last 21 credits before graduation. Issues of responsible communication in a variety of contexts including mass, organizational, and interpersonal communication. (B)

5050 Special Topics. Cr. 3 (Max. 9).
Selected topics in speech communication to be announced in the Schedule of Classes. (B)

5060 Documentary and Non-Fiction Film and Television. Cr. 4
Prereq: admission to media arts and studies major, or COM 2010 and consent of instructor. Study of the non-fiction film made for a social, cultural, or political purpose; screening and analysis of selected films. Material fee as indicated in the Schedule of Classes. (Y)

5080 History and Law of American Journalism. Cr. 4
Prereq: junior or senior standing. History of the press in America; emphasis on development of law relating to communication and development of the media’s effect on the law. (T)

5100 Speech Writing. Cr. 3
Prereq: COM 2100 or 2110 or consent of instructor. Preparation and presentation of speech manuscripts. Emphasis on style of writing, use of supporting materials and factors of interest. Special problems of ghost-writing considered. (Y)

5110 Studies of Argument. Cr. 3
Prereq: COM 2230 or graduate standing. Uses of argument in a variety of fields and contexts including public and interpersonal contexts such as law, religion and politics. Different methods of studying argument will be examined. (B)

5120 Presidential Rhetoric. Cr. 3
Prereq: COM 2170 or consent of instructor. American presidency’s reliance on public persuasion to lead public opinion. Inaugurals, crises, scandals, and war messages analyzed. (B)

5160 Public Relations Campaigns. Cr. 3
Prereq: COM 3170 or graduate standing. Theory and practice of selected topics in communication relating to contemporary public relations campaigns and current issues in public relations; corporate image and awareness campaigns; persuasive efforts of non-profit agencies; educational programs of consumer-related agencies; political and social campaigns. (W)

5210 Newsletters and Corporate Publications. Cr. 4
Prereq: COM 3210. Editing journalism newsletter; field trips to area magazines; editing internal publications. Journalism skills course. Material fee as indicated in the Schedule of Classes. (T)

5220 Interviewing. Cr. 3
Theory and research on interviewing across a range of contexts. Topics include: constructing questions and protocols, listening, role, self-presentation, social understanding. Contexts include screening, counseling, legal, journalism and research. (Y)

5250 Professional Issues in News Media Management. Cr. 4
Prereq: SPJ 4100 or consent of instructor. Capstone course for journalism majors; must elect in last 21 credits before graduation. Ethics
and management structure and practices of media organizations. Individual research projects. (I)

5260  Professional Writing Workshop. Cr. 3
Prereq: senior standing or above. For students and professionals who want to improve freelance writing skills, and for graduate students who want to publish academic research in popular magazines and journals. (I)

5270  (WI) Screenwriting. Cr. 3
Prereq: COM 2210, ENG 3010, junior standing or above. Principles and techniques of writing for motion pictures. Analysis and study of professionally-written scripts. Exercises in writing documentary and dramatic film scripts. (Y)

5300  Desktop Publishing. Cr. 4
Practical skills course in publishing newsletters, magazines, newspapers and books; emphasis on new computer technology, desktop publishing; business aspects of publishing, including printing, promotion and marketing; skills in use of personal computer for publishing. (I)

5310  Investigative Reporting. Cr. 4
Prereq: COM 4100. Advanced reporting techniques involving use of Freedom of Information Act and computer-assisted data base searches; accessing public records. (I)

5380  Video and Film Editing. Cr. 3
Prereq: admission to media arts and studies major; or COM 1600 and consent of instructor. Varied techniques and techniques of editing video and film, including analog, digital, linear and non-linear editing. Material fee as indicated in the Schedule of Classes. (W)

5400  Techniques of Film and Video Production. Cr. 4
Prereq: admission to media arts and studies major and COM 5380, or COM 1600 and consent of instructor. Capstone course for seniors in production track sequence. Experience with the preparation, shooting and editing of video projects in film-style production. (T)

5420  Director's Workshop. Cr. 4
Prereq: COM 5400; senior standing or above; production-ready script; consent of instructor. Organization and execution of the film and video director’s tasks through production of a major creative project. Material fee as indicated in the Schedule of Classes. (Y)

5440  Film Production. Cr. 4
Prereq: COM 5400, senior standing or above, production-ready script, consent of instructor. All aspects of 16mm sound motion picture production from scripting and budgeting through direction and cinematography to post-production AB roll editing and sound mixing. (B)

5460  Magazine Writing. Cr. 3
Prereq: COM 2100 and 4100 or consent of instructor. Advanced feature writing; preparation of magazine features. Students focus on limited number of in-depth articles. Research, structure and writing techniques to produce publishable magazine-length articles. (Y)

5480  Special Topics in Advanced Production. Cr. 4 (Max. 12)
Prereq: COM 1600 and consent of instructor. Topics may include: group documentary production, advanced video and film editing, studio performance, studio drama. Material fee as indicated in the Schedule of Classes. (Y)

5500  Publishing on the Internet. Cr. 3
Technique and goals of publishing on World Wide Web. Preparing graphics, learning HTML, uses of World Wide Web. (Y)

5510  Mass Communications and Society. Cr. 3
Prereq: admission to media arts and studies major, or COM 1500 and consent of instructor. Capstone course for media arts and studies majors in studies track; must elect in last 21 credits prior to graduation. Theoretical and practical research on the social functions and effects of the mass media. (Y)

5530  Audience Measurement and Survey Techniques. Cr. 3
Prereq: SPR 3010, junior standing or above. Theory and application of quantitative research techniques in surveying audiences for electronic media. (B)

5700  Political and Governmental Reporting. Cr. 4
Prereq: COM 2100, 4100. Covering politics, governmental and public affairs in the media. (Y)

5993  (WI) Writing Intensive Course. Cr. 0
Prereq: junior standing, consent of instructor, satisfactory completion of English Proficiency Examination. Offered for S and U grades only. No degree credit. Required of all Film Studies majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a designated corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. (T)

6040  Cultures and Rhetorics. Cr. 3
Prereq: junior standing or above. Analysis of philosophical, social and cultural foundations of rhetorical theory and practice in different cultures. Cultural rhetorics include: African, Asian, Native American, Latin American, Arab, and Jewish. (B)

6060  Teaching Communication at the Secondary Level. (S E 6060) Cr. 3
Prereq: fifteen credits in speech. Philosophy, pedagogical issues, and methods for teaching speech in secondary schools. (I)

6070  Directing Forensics. Cr. 3
Prereq: COM 2110 or consent of instructor. Philosophy and methods of directing high school and college forensics programs; techniques of coaching for debate, oratory, extempore speaking and other reading and speaking contests. (B)

6170  Principles of Interpersonal Communication. Cr. 3
Survey of theory and research on interpersonal interaction, with special emphasis on social perception, self-presentation, and the formation of relationships in interaction. (B)

6171  Human Communication and Aging. Cr. 3
How time and experience impact human communication, as seen through the media and through narrative stories crafted from oral histories of selected senior citizens. (B)

6190  Internship. Cr. 1-3 (Max. 6)
Prereq: junior standing or above and at least 12 credits in COM courses; written consent of instructor. On-the-job observations and work experience in business, service, social, governmental, and industrial organizations. Emphasis on public relations and organizational communication. (B)

6200  Theories of Small Group Processes. Cr. 3
Prereq: COM 1010. Theory and research on communication in the small, task-oriented group. (T)

6250  Organizational Communication. Cr. 3
Prereq: COM 3250 or graduate standing. Theoretical review of the structure process and function of communication within and between organizations. Analysis of current and emerging issues in the theory and research of organizational communication. (W)

6270  Computer-Mediated Communication. Cr. 3
Analysis of computer-mediated interaction in task-oriented and recreational contexts. Emphasis on discourse analysis, and interpersonal and group social processes including decision making and emergence of identity, behavioral norms, and social cues. Research projects. (Y)

6300  Advanced Desktop Publishing. Cr. 3
Prereq: COM 5300. Advanced planning, development and production processes essential to creation of corporate publications; includ-
ing brochures, newsletters, annual reports, marketing collateral materials, grant and proposal documents. Writing and strategic communication emphasis.

6350 Communication, Culture, and Conflict. (D R 6350) Cr. 3
Overview of communication theory and practice as it relates to issues of culture, conflict and dispute resolution. (Y)

6400 Rhetoric of Visual Culture. Cr. 3
Critical analysis of symbolic and performative dimensions of visual culture. Theoretical and material force of photography, architecture, landscape, museums, public memorials, and others. (B)

6680 Individual Projects in Media Arts and Studies. Cr. 1-4
Prereq: COM 5400; written consent of instructor and director of media arts and studies program. (T)

DANCE

Office: 3226 Old Main; 313-577-4273
Chairperson: Eva Powers
Associate Chairperson: Linda Cleveland Simmons
Website: http://www.dance.wayne.edu

Associate Professors
Eva Jablonowski Powers, Ann Zirulnik (Emerita)

Assistant Professors
Georgia Reid (Emerita), Linda Cleveland Simmons

Guest Artist
Kelly Gottesman

Degree Program

BACHELOR OF FINE ARTS with a major in dance
BACHELOR OF SCIENCE with a major in dance

The Maggie Allesee Department of Dance provides opportunities for experiential and academic dance studies. The Department offers curricular choices at the undergraduate and post degree levels designed to meet individual needs and interest, prepare certified teachers of dance, and encourage students to perform, choreograph, and produce concert dance of high quality. Undergraduate studies in dance are reflected in the following major and minor designations: Major in Dance leading to the Bachelor of Science degree; Major in Dance leading to the Bachelor of Fine Arts degree; optional K-12 State of Michigan teaching certification for either the B.S. or B.F.A. Major in Dance; teaching Minor along with any secondary school teaching major such as music, art, special education, speech, and the like; teaching Minor or specialization in dance with a kinesiology (physical education) major; non-teaching Minor in Dance with any Wayne State major.

Bachelor of Fine Arts
With a Major in Dance

The Bachelor of Fine Arts with a major in dance provides a degree program for talented students with prior dance experience and skills who seek professional careers as performing artists, choreographers, or dance scholars. Dance technique and the history, philosophies, and aesthetics of dance are all central to this program.

Admission to this program is contingent upon satisfaction of the general requirements for undergraduate admission to the University (see page 15) and a successful audition conducted by the Department faculty. Audition dates are scheduled throughout the year, and prospective students should contact the Dance Office for scheduling information. Entering students are required to consult the Departmental counseling staff prior to their first registration for classes.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Fine Arts degree with a major in dance must complete a minimum of 120 credits in course work, including six semesters of performance in the University Dance Company, as well as satisfaction of the University General Education Requirements (see page 23) and College degree requirements (see page 178). This program requires seventy-eight credits in dance courses (specified below), as well as thirty-one credits in University General Education courses and eleven credits in electives within or outside dance. All course work must be completed in accordance with the academic procedures of the University and the College of Fine, Performing and Communication Arts governing undergraduate scholarship and degrees (see sections beginning on page 23, 38, and 173.), as well as with the requirements of the Mag-
gie Allessee Department of Dance. The seventy-eight credits in specified dance courses must be completed with grades of ‘C’ or better; grades of ‘C-minus’ or below are not acceptable in any required dance course for dance majors.

**B.F.A. MAJOR REQUIREMENTS**

DNC 2300 — History of Dance to 1800: Cr. 3  
DNC 2310 — (VP) History of Dance from 1800 to the Present: Cr. 3  
DNC 2311 — Issues and Trends in Contemporary Dance: Cr. 2  
DNC 2410 — Music and Dance Relationships: Cr. 2  
DNC 3180 — Dance Kinesiology: Cr. 3  
DNC 3190 — Movement Analysis: Cr. 2  
DNC 3310 — Dance Production: Cr. 3  
DNC 2500 — Choreography I: Cr. 2  
DNC 3500 — Choreography II: Cr. 2  
DNC 5110 — Study in Dance Styles: Pilates: Cr. 1  
DNC 5560 — Choreography III: Cr. 2  
DNC 5410 — Dance Notation I: Cr. 2  
DNC 5993—(WI) Writing Intensive Course in Dance: Cr. 0  
Total: 28 credits

**Performance**

DNC 2010 — Technique Laboratory I: Part I: Cr. 2  
DNC 2020 — Technique Laboratory I: Part II: Cr. 2  
DNC 2210 or 2220 or 3210 or 3220 or 4210 or 4220  
(eight semesters at two credits per semester): Cr. 16  
DNC 3010 — Technique Laboratory II (two semesters): Cr. 4  
DNC 4010 — Technique Laboratory III (four semesters): Cr. 8  
DNC 5000 — Performance Tour (two semesters): Cr. 6  
DNC 5610 — Dance Company I (six semesters): Cr. 6  
DNC 5800 — Repertory (three semesters): Cr. 3  
DNC 5996—Senior Capstone Research (Choreography):\(^1\) Cr. 3  
Total: 21 credits

**Cognate Requirements (elect two of the following courses)**

THR 1010 — (VP) Introduction to the Theatre: Cr. 3  
MUH 1340 — (VP) Music Appreciation: World Music: Cr. 3  
MUH 1370 — (VP) Music Appreciation: Beginnings to Present: Cr. 3  
A H 1000 — (VP) Introduction to Art: Cr. 4  
Total: 6-7 credits

**Performance Opportunities:** The W.S.U. Dance Company is a performing group composed of skilled dance students who must qualify for membership through auditions. It presents concerts, lecture/demonstrations, and performances on campus and in the community, choreographed by visiting artists, faculty, and talented students. All B.F.A. majors must qualify for, and be members of, the Dance Company for six semesters.

**Bachelor of Science With a Major in Dance**

This degree program is for students with prior dance experience who wish to combine university-level dance studies with a broad program of general study in the arts and sciences.

**Admission Requirements** include the general requirements for undergraduate admission to the University (see page 15). Entering students are required to consult the Departmental counseling staff prior to their first registration for classes.

**DEGREE REQUIREMENTS:** Candidates for the Bachelor of Science degree with a major in dance must complete a minimum of 120 credits in course work, including four semesters of performance in the University Dance Company, as well as satisfaction of the University General Education Requirements (see page 23) and College degree requirements (see page 178). This program requires fifty-two credits in dance courses (specified below), as well as thirty-one credits in University General Education courses and thirty-seven credits in electives. All course work must be completed in accordance with the academic procedures of the University and the College of Fine, Performing and Communication Arts governing undergraduate scholarship and degrees (see sections beginning on page 23, 38, and 173), as well as with the requirements of the Maggie Allessee Department of Dance. The fifty-two credits in specified dance courses must be completed with grades of ‘C’ or better; grades of ‘C-minus’ or below are not acceptable in any required dance course for dance majors.

**B.S. MAJOR REQUIREMENTS**

DNC 2300 or DNC 2310  
-- History of Dance to 1800: Cr. 3  
-- (VP) History of Dance from 1800 to the Present: Cr. 3  
DNC 2311 -- Issues and Trends in Contemporary Dance: Cr. 2  
DNC 2410 --Music and Dance Relationships: Cr. 2  
DNC 3180 -- Dance Kinesiology: Cr. 3  
DNC 3310 -- Dance Production: Cr. 3  
DNC 2500 --Choreography I: Cr. 2  
DNC 3500 --Choreography II: Cr. 2  
DNC 5000 --Performance Tour: Cr. 2  
DNC 5610 -- Dance Company I (four semesters): Cr. 4  
DNC 5800 -- Repertory (two semesters): Cr. 2  
DNC 5996—Senior Capstone Research (Choreography):\(^1\) Cr. 3  
Total: 31 credits

**General Education Requirement**

DNC 2000 — (VP) Introduction to Dance: Cr. 4

**Performance Opportunities:** The W.S.U. Dance Company is a performing group composed of skilled dance students who must qualify for membership through auditions. It presents concerts, lecture/demonstrations, and performances on campus and in the community, choreographed by visiting artists, faculty, and talented students. All B.S. majors must qualify for, and be members of, the Dance Company for four semesters.

**Teaching Major —B.F.A. and B.S. Professional Education Sequence:** The following courses are required for a teaching major in dance, K-12 certification, for both the B.F.A. and the B.S. degrees:

DNC 3998 — Assisting in Dance: Cr. 1  
DNE 4410 — Student Teaching and Seminar I: Cr. 5  
DNE 4420 — Student Teaching and Seminar II: Cr. 5  
DNE 4810 — Methods in Modern Dance and Ballet: Cr. 3  
DNE 5810 — Creative Dance for Children: Cr. 3  
DNC 5830 — Field Work in Creative Dance: Cr. 2-8  
EDP 3310 — Educational Psychology: Cr. 3  
HEA 2330 or H E 3330  
-- First Aid and CPR: Cr. 3  
-- Health of the School Child: Cr. 3  
RDG 4430 — Teaching Reading in Subject Matter Areas: Cr. 3

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1. Capstone course to be taken in last twenty-one credits of study.
2. Capstone course to be taken in last twenty-one credits of study.

College of Fine, Performing, and Communication Arts 197
Minor in Dance Education

The dance education minor requires twenty-eight credits to meet Departmental and State Certification requirements for teaching in grades K-12. Required courses include:

DNC 2000 -- (VP) Introduction to Dance: Cr. 4
DNC 2010 -- Technique Laboratory I: Part I: Cr. 2
DNC 2020 -- Technique Laboratory I: Part II: Cr. 2
DNC 2210 -- Ballet II: Cr. 2
DNC 2300 or DNC 2310
-- History of Dance from 1800: Cr. 3
-- History of Dance from 1800 to the Present: Cr. 3
DNC 2311 -- Issues and Trends in Contemporary Dance: Cr. 2
DNC 3010 -- Technique Laboratory II (two semesters): Cr. 4
DNC 2500 -- Choreography I: Cr. 2
DNC 5610 -- Dance Company I: Cr. 1
DNC 4810 -- Methods in Modern Dance and Ballet: Cr. 3
DNC 5810 -- Creative Dance for Children: Cr. 3

Post-Degree Studies in Dance: Students who have State Teacher Certification in any secondary major may add a Dance Certification K-12 by completing the Dance Education Minor requirements.

Other Dance Study: The Dance Department also provides dance instruction for non-majors and develops general appreciation for dance as an art form.

Departmental Scholarships

See the section on Scholarships and Financial Aid on page 175. Detailed information on all Department scholarships and awards is available in the department office.

Academic Achievement Award: Award open to any full-time student majoring in dance.

Activity Award: Variable award available to WSU Dance Company members based upon degree of participation (fall and winter terms).

Meredith Ilene Campbell Scholarship: Award of $500 open to full-time dance majors. Application deadline December 1.

Rose Marie Floyd Scholarship: Award available to any full-time dance major; application deadline December 1.

Ruth Lacoff Scholarship: Award available to any full-time dance major; application deadline December 1.

Ruth Lovell Murray Scholarship: Award open to any dance education major. Application deadline: December 1.

Lisa Nowak Scholarship: Award available to full-time dance majors, when funding exists.

Talent Scholarship Award: Award of $2000 per academic year (fall and winter terms) renewable for four years based on continuance in the dance program; open to any dance major admitted to W.S.U. Application deadline is early February.

UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

DANCE COURSES (DNC)

1010 Contemporary Dance I. Cr. 2
Basic movement techniques and improvisational experiences in concert dance; films and concert viewing. (T)

1020 Contemporary Dance II. Cr. 2 (Max. 6)
Prereq: DNC 1010 or equiv. Continuation of DNC 1010 on an intermediate level. (T)

1210 Fundamentals of Classic Ballet I. Cr. 2 (Max. 8)
Introduction to the fundamentals of classical ballet; emphasis on vocabulary, theory and practice, including films and concert viewing. (T)

1220 Fundamentals of Classic Ballet II. Cr. 2 (Max. 8)
Prereq: DNC 1210 or equiv. Continuation of DNC 1210. (T)

1410 Afro-Haitian Dance I. Cr. 2
Introduction to dance elements and dances derived from African/African American cultural experience. Emphasis on dances of Haiti, Brazil, and Cuba. (F)

2000 (VP) Introduction to Dance. Cr. 4
Global perspective on and definition of dance, through assigned readings, writing, field trips, and laboratory experience. Focus on multicultural diversity, interdependent nature of dance. (T)

2010 Technique Laboratory I: Part I. Cr. 2 (Max. 12)
Prereq: DNC 1020 or equiv. Modern dance technique of increasing difficulty and complexity; experiences in improvisation, problem solving, and compositional studies in dance. (F,W)

2020 Technique Laboratory I: Part II. Cr. 2 (Max. 12)
Prereq: DNC 1020 or equiv. Modern dance technique of increasing difficulty and complexity; further experiences in improvisation, problem solving and composition; analysis and refinement of technique and performance skills. (W)

2210 Ballet III. Cr. 2 (Max. 16)
Prereq: DNC 1220 or equiv. Continuation of DNC 1220 on a more advanced technical level with emphasis on complex movement phrases and selections from classical repertoire. (F,W)

2220 Ballet IV. Cr. 2 (Max. 16)
Prereq: DNC 2210. Continuation of DNC 2210 with emphasis on advanced knowledge of classical ballet vocabulary. (T)

2300 History of Dance to 1800. Cr. 3
Survey of dance in western civilization from pre-historic times through the eighteenth century; how dance evolved from expression of primitive cultures to independent theatrical entertainment in western Europe. (F,W)

2310 (VP) History of Dance from 1800 to the Present. Cr. 3
How dance in western Europe developed through various cultural influences from the romantic ballet scenario in the nineteenth century to artistic compositions with multimedia technology technology in the present day. (W)

2311 Issues and Trends in Contemporary Dance. Cr. 2
Discussion of current events, trends and issues. (W)

2400 (FC) Introduction to African Dance. Cr. 3
Exploration of African and African derived dance forms, together with their integrated philosophy, music, art and theatre forms. Lectures, videos, concert attendance and reading assignments to learn and perform dances from selected African societies. (T)

2410 Music and Dance Relationships. Cr. 2
Study of the basic elements common to dance and music including rhythm, dynamics, and form. Examples of music especially composed for dance will be examined along with dance styles of historical periods. (B)

2500 Choreography I. Cr. 2
Prereq: DNC 1020 or equiv. Construction of motifs and dance studies based on music, properties, nonliteral and literal thematic materials. Form and structural concepts. (B)
2610 Jazz I. Cr. 2 (Max. 8)
Introduction to jazz dance technique; emphasis on alignment, movement isolation, rhythmic awareness, basic dance vocabulary, historical development. (F)

3010 Technique Laboratory II. Cr. 2 (Max. 8)
Prereq: DNC 2010 or equiv. Continuation of DNC 2010; modern dance technique at the intermediate level. (F,W)

3180 Dance Kinesiology. Cr. 3
Prereq: DNC 1020 or equiv. Introduction to analysis of dance movement from an anatomical and mechanical point of view. Relationships between neuromuscular re patterning, alignment and technique. (B)

3210 Ballet V. Cr. 2 (Max. 16)
Prereq: DNC 2210, 2220, or by audition. Open only to advanced dancers. Technical skill development of classical ballet dancers. (F,W)

3220 Ballet Pointe Technique. Cr. 1
Open only to advanced dancers. Prereq: DNC 3210. Technical skill development on pointe. (F)

3310 Dance Production. Cr. 3
Concentration on selected types of dance production including an examination of purpose and content; technical considerations such as costumes, makeup, lighting and decor; the management of performance-related matters, and the use of technology, computer and video to support production work. (B)

3410 Jazz II. Cr. 2 (Max. 4)
Prereq: DNC 2610, consent of instructor. Continuation of DNC 2610 on a more advanced level. (T)

3500 Choreography II. Cr. 2
Prereq: DNC 2500. Selection of dance themes, construction of dances, small group studies. Aesthetic considerations, form and elements of performance. (B)

3998 Assisting in Dance. Cr. 1 (Max. 4)
Prereq: consent of dance adviser. Assigned field work in assisting under faculty supervision. (F,W)

4010 Technique Laboratory III. Cr. 1-2 (Max. 16)
Open only to dance majors; others by audition. Prereq: DNC 2010 or equiv. Continuation of DNC 3010. Modern dance technique, advanced level. (F,W)

4220 Ballet Variations. Cr. 1
Prereq: expertise on pointe; audition required. Open only to advanced dancers. Learning various solo exercises from standard classical repertoire; music by Chopin, Adams, Minkus, Tchaikovsky. (F,W)

4610 Jazz III. Cr. 2
Prereq: admission by audition. Continuation of DNC 3410 with advanced training in jazz technique and styles. (F,W)

4810 Methods in Modern Dance and Ballet. (DNE 4810) Cr. 3
Prereq: DNC 1020 and 1220 or equiv. Analysis of instructional methods and materials in modern dance and ballet, including technique, improvisation, composition, curriculum planning and evaluation. (W)

5000 Performance Tour. Cr. 1 (Max. 8)
Prereq: DNC 5610 or 6610. Open by audition only. Development and performance of informal concerts for elementary, middle and secondary schools. (W)

5110 Study in Dance Styles. Cr. 1 (Max. 16)
Examination of a particular dance style; i.e., historic period, technique, jazz, tap and social dance forms. (T)

5410 Dance Notation I. Cr. 2
Background in movement or dance is desirable. Labanotation of dance and movement; survey of other systems. Analysis and recording of movement and dance. (B,W)

5430 (KIN 5440) Physical Education for Elementary School Children I. (DNE 5430) Cr. 3
Prereq: admission to senior college. Developmental approach to teaching elementary physical education in schools. Beginning movement concepts and fundamental motor skills that are developmentally appropriate for children to participate in games, gymnastics, dance, and fitness activities. Curriculum design and implementation of activities in practicum application. (F)

5435 (KIN 5450) Physical Education for Elementary School Children II. (DNE 5435) Cr. 3
Prereq: KIN 5440. Continuation of KIN 5440, focusing on a developmental approach to teaching elementary physical education in schools. Investigation of various teaching methods and styles using movement, themes, fundamental motor skills, games, gymnastics, dance and fitness activities. Implementation of developmentally appropriate activities in practicum application. (W)

5560 Choreography III. Cr. 2
Prereq: DNC 2500, 3500. Continuation of DNC 3500; more advanced experience in choreographic forms and exploration of collaborative approaches to choreography. (W)

5610 Dance Company I. Cr. 1 (Max. 8)
Prereq: admission by audition. Coreq: DNC 4010 or 6010. Performing company. Open to students interested in performing and/or choreographing. Four credits required for dance majors. (F,W)

5710 Workshop in Modern Dance. Cr. 1-6 (Max. 12)
A concentrated period of advanced dance study in technique, composition and repertory, often with a visiting artist. (F,W)

5800 Repertory. Cr. 1-4 (Max. 12)
Prereq: DNC 4010 or equiv.; admission by audition. Learning, for performance, of standard modern repertory, dances previously choreographed by instructor. Labanotated dance, or work of Artist-in-Residence. (F,W)

5810 Creative Dance for Children. (DNE 5810) (TED 5810) Cr. 3
Approaches to creative dance experiences for children stressing the development of aesthetic and kinesthetic awareness. Focus on comprehensive arts and curriculum related materials. (F)

5820 Creative Dance Movement for the Pre-School Child. (TED 5820) Cr. 3
Creative dance activities; manipulative, musical, imaginative and kinesthetic approaches to movement. (W)

5830 Field Work in Creative Dance. (TED 5830) Cr. 2-8
Prereq: DNC 5610 or consent of instructor. Supervised professional study in field settings. (T)

5990 Independent Study in Dance. Cr. 1-4 (Max. 12)
Prereq: major or minor in dance. Independent work in dance under faculty guidance. (T)

5993 (WI) Writing Intensive Course in Dance. Cr. 0
Prereq: junior standing; satisfactory completion of English Proficiency Examination; consent of instructor; coreq: DNC 3110 or 3310. Offered for S and U grades only. No degree credit. Required of all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a course designated as a corequisite. See Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. (T)
FILM STUDIES

Degree Program

BACHELOR OF ARTS with a major in film studies

Film Studies is an interdepartmental program that offers undergraduate students the opportunity to examine cinema from a variety of perspectives: as a visual and narrative art form, as an important social and cultural force in the twentieth century, as an industry, and as a technologically based communications medium. Introductory film courses focus on the historical development of film and provide students with the necessary technical vocabulary to discuss the nature of the film experience. Advanced courses from participating departments (African Studies, Communication, English, German and Slavic Studies, and Romance Languages and Literatures) continue historical and aesthetic studies, but they are also concerned with theories of film, particular genres and directorial styles, and the multiple relationships between film and other art forms. Additionally, the study of techniques and skills of film writing and production is also available.

Many students take film studies courses as electives complementary to other majors. Students who major in the program may be preparing for careers as film teachers, film librarians and archivists, film critics, script writers, or workers in film production. Additional study at the graduate level is usually necessary to achieve these goals, and an adviser should be consulted regarding available graduate programs.

The film studies program is administered by an advisory committee composed of specialists in this field from the five departments noted above. The program is offered in both the College of Liberal Arts and the College of Fine, Performing, and Communication Arts. Interested students should consult the department whose fields most closely approximate the student's interests. Students interested in film studies with an emphasis in critical and historical studies in film are encouraged to meet with Professor Robert Burgoyne in the Department of English, College of Liberal Arts. Students interested in film studies with an emphasis in film production and analysis are encouraged to meet with Professor Jackie Byars in the Department of Communication, College of Fine, Performing, and Communication Arts.

Bachelor of Arts

with a Major in Film Studies

Admission Requirements for this degree program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor's degree must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 23), College degree requirements (see page 178), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sec-

5996 Senior Capstone Research. Cr. 3 (Max. 6)
Prereq: DNC 3500. Group and solo choreography, costume design and construction, notation of selected movement phrases and production of the solo work. (W)

6010 Technique Laboratory III. Cr. 1 (Max. 8)
Prereq: DNC 4010 or equiv. Modern Dance technique, advanced level. (F,W)

6610 Dance Company II. Cr. 1 (Max. 8)
Prereq: DNC 5610 or equiv. Required for students in the choreography and performance emphasis. Admission by audition. Performing company. Performing, choreographic and/or production responsibilities. (F,W)

DANCE EDUCATION COURSES (DNE)

4410 Student Teaching and Seminar I. Cr. 2-6 (FLD:14)
Prereq: 2.5 g.p.a. in major; admission to student teaching. Offered for S and U grades only. First experience in student teaching. (F,W)

4420 Student Teaching and Seminar II. Cr. 2-6 (FLD:14)
Prereq: 2.5 g.p.a. in major; admission to student teaching; DNE 4410. Offered for S and U grades only. Second experience in student teaching. (F,W)

4810 (DNC 4810) Methods in Modern Dance and Ballet. Cr. 3
Prereq: DNC 1020 and DNC 1220 or equiv. Analysis of instructional methods and materials in modern dance and ballet, including technique, improvisation, composition, curriculum planning and evaluation. (W)

5430 (KIN 5440) Physical Education for Elementary School Children I. (DNC 5430) Cr. 3
Prereq: admission to senior college. Developmental approach to teaching elementary physical education in schools. Beginning movement concepts and fundamental motor skills that are developmentally appropriate for children to participate in games, gymnastics, dance, and fitness activities. Curriculum design and implementation of activities in practical application. (F)

5435 (KIN 5450) Physical Education for Elementary School Children II. (DNC 5435) Cr. 3
Prereq: KIN 5440. Continuation of KIN 5440, focusing on a developmental approach to teaching elementary physical education in schools. Investigation of various teaching methods and styles using movement, themes, fundamental motor skills, games, gymnastics, dance and fitness activities. Implementation of developmentally appropriate activities in practical application. (W)

5810 (DNC 5810) Creative Dance for Children. (TED 5810) Cr. 3
Approaches to creative dance experiences for children stressing the development of aesthetic and kinesthetic awareness. Focus on comprehensive arts and curriculum related materials. (F)
tions beginning on page 23, 38, and 173.

**Major Requirements:** Students majoring in film studies must complete a minimum of thirty-six credits, distributed as follows:

**CORE COURSES (Fifteen Credits)**

ENG 2450 -- (VP) Introduction to Film (COM 2010): Cr. 4

COM 2020 -- (VP) History of Film (ENG 2460): Cr. 3

COM 4997 -- Senior Assessment Essay in Film Studies: Cr. 1

COM 5993 or ENG 5993

-- (WI) Writing Intensive Course: Cr. 0

-- (WI) Writing Intensive Course in English. Cr. 0

COM 1600 -- Intro: Audio-TV-Film Production: Cr. 3

ENG 5040 -- Film Criticism and Theory: Cr. 4

**ELECTIVE COURSES (Twenty Credits)**

Students should consult with their advisor in selecting electives. Electives should be selected in conjunction with either the English or Communication Department.

AFS 3200 -- The African American Cinematic Experience: Cr. 4

AFS 5800 -- Third World Cinema: Cr. 4

ENG 5050 -- Concepts in Film Studies: Cr. 3-4 (Max. 12)

ENG 5060 -- Styles and Genres in Film: Cr. 4 (Max. 12)

ENG 5070 -- Topics in Film: Cr. 4 (Max. 12)

ENG 3040 -- Major Works of World Cinema: Cr. 4

COM 3990 -- Directed Study: Cr. 1-4 (Max. 6)

ITA 5150 -- Italian Cinema Since 1942: Cr. 3 (Max. 9)

SLA 3710 -- (VP) Russian & East European Film (ARM/POL/RUS 3710): Cr. 3

COM 5020 -- Studies in Film History: Cr. 4 (Max. 12)

COM 5060 -- Documentary and Non-Fiction Film and Television: Cr. 4

COM 5270 -- (WI) Screenwriting: Cr. 3

COM 5400 -- Techniques of Film/Video Production: Cr. 4

COM 5440 -- Film Production: Cr. 4

COM 6680 -- Individual Projects in Media Arts & Studies: Cr. 3 (Max. 6)

**Minor in Film Studies**

Completion of a minor in film studies requires nineteen credits including ENG 2450 /COM 2010 and any other selections from either the core or elective courses cited above under the Bachelor of Arts major program.

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**MUSIC**

**Office:** 1321 Old Main; 313-577-1795

**Chairperson:** Dennis J. Tini

**Associate Chairperson:** James P. Lentini

**Graduate Officer:** Mary A. Wischusen

**Academic Services Officers:** Lee Dyament, Andrea Saglimbene

**Web:** [http://www.music.wayne.edu](http://www.music.wayne.edu)

**e-mail:** music@wayne.edu

**Professors**

James J. Hartway, James P. Lentini, Kypros L. Markou, Matthew Michaels, Dennis J. Tini

**Associate Professors**

Frances Brockington, Christopher Collins, John D. Vander Weg, Mary A. Wischusen

**Assistant Professors**

Douglas Bianchi, Karl Braunschweig, Abigail Butler, Robert Conway, Norah Duncan, Terese Volk

**Lecturers**

Thomas Court, Augustus Hill

**Adjunct Professors**

Brazeal Dennard, David DiChiera, Neeme Jarvi

**Emeriti Faculty**

Lillian J. Cassie, Carol J. Collins, Morris Hochberg, Bohdan J. Kushnir, Joseph Labuta, Doris L. Richards

**Program Directors**

Douglas Bianchi (brass), Frances Brockington (voice), Robert Conway (piano), Norah Duncan (organ/church music), Paul Ganson (woodwinds), James Hartway (theory/composition), James Lentini (music technology), Kypros Markou (strings), Matthew Michaels (jazz studies), Dennis Tini (choral)

**Adjunct Faculty**

Geoffrey Applegate (violin, DSO), Gerrie Ball (accompanist), Marcus Belgrave (jazz trumpet), George Benson (jazz saxophone), Gary Blumer (jazz piano), Emmanuelle Boisvert (violin, DSO), Neal Campbell (tuba), Steven Carryer (jazz guitar, ensembles), Marcy Chanteaux (cello, DSO), Keith Claeyss (percussion ensemble), Carolyn Coade (viola, DSO), Jeanette Dagger-Haviaras (voice), Brazeal Dennard (choral), Mario DiFiore (cello, DSO), Dorothy Duensing (voice), Lee Dyament (classical guitar), Gordon Finlay (voice), Paul Ganson (bassoon, DSO), Robert Gladstone (bass, DSO), Ed Gooch (trombone), Lana Gore (bayan), Oliver Green (bass clarinet, DSO), John Guinn (musicology), Max Janowsky (bass, DSO), Joyce Jaxon (music education), David Jennings (trumpet), Gale Kramer (organ), Joseph Labuta (music education), Gary Leach (jazz bass), Min-Duo Li (piano), Lawrence Liberson (clarinet, DSO), Joseph LoDuca (film music), Don Mayberry (jazz bass), Jerry McKenzie (jazz percussion), Glen Mellow (viola, DSO), Russ Miller (jazz ensembles), Stephen Molina (bass, DSO), Ervin Monroe (flute, DSO), Susan Mutter (horn), Mark Nilan (music management), Larry Nozero (jazz woodwinds), Ted Oien (clarinet, DSO), Dan Piskow (jazz bass), Movses Pogossian (violin), Ronald Prowse (organ), Richard Rattner (business of music), Kim Renas (voice), Brian Roberts (guitar), Richard Robinson (bass), Ernest Rodgers (jazz ensemble), Pat Terry-Ross (harp), James Ryan (jazz percussion), Marcus Schoon (contra-bassoon, DSO), Pietro Soave (bayan), Joseph Striplin (violin, DSO), Arjun Subharawal (musicology), David Taylor (jazz percussion), Larry Teal (saxo-


**Degree Programs**

**BACHELOR OF ARTS with a major in music**

**BACHELOR OF MUSIC with a concentration in composition/theory, jazz studies, music education, music management, music technology, and performance**

**MASTER OF ARTS with a major in music**

**MASTER OF MUSIC with a concentration in composition/theory, choral/orchestral conducting, performance, and music education**

**GRADUATE CERTIFICATE in Orchestral Studies**

The music programs at Wayne State offer many of the advantages of studying at a major urban university. As an integral part of the cultural center of Detroit, the University is enriched by the musical activities of other major institutions in the area such as the Detroit Institute of Arts, Orchestra Hall and the Michigan Opera Theatre. Additionally, the close relationship between this department and the Detroit Symphony Orchestra, one of the nation’s great orchestras, provides an artistic resource of the highest calibre. Qualified students can find opportunities in performance and arts management with these and other institutions while studying with members of the Detroit Symphony, jazz artists or other distinguished faculty. Music study can also lead to numerous careers in the fields of teaching, religion, business, jazz and commercial music.

**Registration:** All students must meet with a Department of Music adviser before pursuing registration for courses. Enrollment in all MUP courses requires a Music Department adviser’s signature.

**Scholarship:** All course credit applicable to any of the following degree programs must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 173.

Music majors pursuing undergraduate degrees must earn the grade of ‘C’ or better in all music courses required in the music curricula they are pursuing. The grade of ‘C-minus’ or below is not an acceptable grade for degree credit. If the grade of ‘C-minus’ or below or a mark of ‘W’ is received by a music major in any required course in a music curriculum, the student may register for the course one additional time to earn a grade of ‘C’ or better.

**ENSEMBLE PARTICIPATION:** The Music Department encourages all musically-inclined students to join its ensembles. Participation gives music majors and non-majors alike the opportunity to improve their musical skills and perform in internationally-recognized groups. Conductors audition new students during the first week of classes; the level of skill necessary varies by ensemble; however, most require music literacy. Music majors must elect designated Major Ensembles (MUA 2800, 2810, 2820, 2840, or 2850) for degree credit.

**BANDS:** Woodwind, brass and percussion players are welcome to join the Concert Band. Wind Symphony members are chosen through competitive auditions.

**CHORUSES:** Music majors must elect Choral Union (MUA 2840) or Concert Chorale (MUA 2850) for degree credit. Non-music majors are encouraged to register for the Choral Union (the large mixed-voice choir), Men’s Glee Club, Vocal Jazz Ensembles, and Women’s Chorale. Concert Chorale is the Department’s most select vocal ensemble; auditions are especially competitive.

* For specific requirements, see the Wayne State University Graduate Bulletin.

**JAZZ:** Though music majors are given highest priority for jazz band positions, non-music majors are welcome to audition for ensembles.

**ORCHESTRA:** Positions in the Orchestra are assigned by audition with the Director of the Orchestra.

**Bachelor of Arts with a Major in Music**

The Bachelor of Arts curriculum is designed for students who want to develop their musical knowledge and ability while obtaining a broad liberal arts education. It provides students with the academic and musical prerequisites necessary for continuing graduate study in such fields as music theory, musicology and ethnomusicology.

**Admission Requirements** for the Bachelor of Arts program are satisfied by the general requirements for admission to the University; see page 15.

**DEGREE REQUIREMENTS:** Candidates for this degree must complete a minimum of 120 credits including satisfaction of the University General Education Requirements (see below and page 23), College degree requirements (see page 178), as well as the Music Core, Performance Ensemble, and Bachelor of Arts curriculum requirements cited below. Students pursuing a Bachelor of Arts degree must also fulfill the foreign language requirement (see page 173). ONLY FIFTY-SIX CREDITS IN MUSIC ARE APPLICABLE TO THIS DEGREE.

**Concert, Recital, and Lecture Attendance:** All music majors must satisfactorily complete four semesters of MUA 2690, General Lectures and Concerts. These should be the first four semesters in which a student is a Music Major.

**General Education Requirements:** The Department requires election of PSY 1020 (Elements of Psychology), and PHY 3100 (Sounds of Music), which may be used to satisfy the University General Education Requirements for a life science (LS) and physical science (PS), respectively. The visual and performing arts (VP) requirement may be satisfied by MUH 1340 (Music Appreciation: World Music), MUH 1350 (Music Appreciation: Popular Music to the Present), or MUH 1370 (Music Appreciation: Beginnings to the Present); if MUH 1370 is elected, it must be taken before MUA 3310 or 3320 (Music History and Literature I and II). The Writing Intensive (WI) Course in Music is MUH 5993.

**MUSIC CORE REQUIREMENTS**

1. MUT 1140, 1150, 1160, 1170, 2140, 2150, 2160, 2170, 5997
2. MUH 3320, 3330
3. MUA 1790, 2790, 3790
4. MUA 2690 (four semesters)

**PLACEMENT EXAMINATIONS** in music theory (MUT courses) must be taken by all students and are available from the Music Department office. These examinations may be taken only prior to the student’s enrollment in theory courses.

**PERFORMANCE ENSEMBLE REQUIREMENTS**

All undergraduate music majors must fulfill a minimum of eight semesters of a Major Performance Ensemble. Performance Ensembles for the Bachelor of Arts program are defined as MUA 2800, 2810, 2820, 2840, or 2850 in the student’s principal instrument.

All undergraduate music majors who elect eight or more credits in the fall or winter semesters must elect a Performance Ensemble concurrently in that semester.

Students transferring from other institutions must have their transcripts evaluated by the Departmental chairperson for possible advanced credit toward the Performance Ensemble requirement.

**CURRICULUM REQUIREMENTS**

1. MUT 2100 - Counterpoint: Cr. 2.
2. MUH 3310 - Music History and Literature 1: Cr. 3.
3. MUA 3670 - Conducting Techniques: Cr. 2.
4. MUH 1340 - Music Appreciation: World Music: Cr. 3.
Bachelor of Music

The Bachelor of Music degree provides a program for talented students with prior musical experience and skills who seek professional training in music. A wide range of concentrations is available under the program to meet the specialized interests and career plans of serious music students. Depending on the student’s qualifications he or she may choose from ten professional areas of concentration: 1) performance; 2) theory; 3) composition; 4) vocal music education; 5) instrumental music education; 6) music management; 7) music theatre; 8) music technology; 9) church music; 10) jazz studies.

Admission to this program is contingent upon satisfactory performance on the general requirements for undergraduate admission to the University (see page 15) as well as upon audition and approval of the division director for the specific curriculum of the student’s major. Audition dates are scheduled throughout the year and prospective students should contact the Music Office for scheduling information. Entering students must consult the Departmental counseling staff prior to their first registration.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Music must complete 120 to 128 credits including satisfaction of the University General Education Requirements (see below and page 23), College degree requirements (see page 178), as well as the Music Core (see above, under Bachelor of Arts), Performance Ensemble requirements (from major ensembles MUA 2800, 2810, 2820, 2840, or 2850), and one of the major concentrations cited below.

Concert, Recital, and Lecture Attendance: All music majors must satisfactorily complete four semesters of MUA 2690, General Lectures and Concerts. These should be the first four semesters in which a student is a Music Major.

General Education Requirements: The Department requires election of PSY 1020 (Elements of Psychology), and PHY 3100 (Sounds of Music), which may be used to satisfy the University General Education Requirements for a life science (LS) and physical science (PS), respectively. The visual and performing arts (VP) requirement may be satisfied by MUH 1340 (Music Appreciation: World Music), MUH 1350 (Music Appreciation: Popular Music to the Present), or MUH 1370 (Music Appreciation: Beginnings to the Present); if MUH 1370 is elected, it must be taken before MUH 3310 or 3320 (Music History and Literature I and II). The Writing Intensive (WI) Course in Music is MUH 5993.

MUSIC CORE REQUIREMENTS

1. MUT 1140, 1150, 1160, 1170, 2140, 2150, 2160, 2170, 5997
2. MUH 3320, 3330
3. MUA 1790, 2790, 3790
4. MUA 2690 (four semesters)

Placement examinations in music theory (MUT courses) must be taken by all students and are available from the Music Department office. These examinations may be taken ONLY prior to the student’s enrollment in theory courses.

PERFORMANCE ENSEMBLE

For a general explanation of this requirement see above, under the Bachelor of Arts program. Major performance ensembles include MUA 2800, 2810, 2820, 2840, and 2850. Specific requirements for the various concentrations offered under the Bachelor of Music are as follows:

(a) Bachelor of Music with a Concentration in Composition/Theory:
Eight semesters of a Major Performance Ensemble of the principal instrument;
(b) Bachelor of Music with a Concentration in Instrumental Music Education:
1. Winds or percussion — MUA 2800 (eight semesters), or
2. Strings — MUA 2810 (eight semesters);
(c) Bachelor of Music with a Concentration in Vocal Music Education:
Eight semesters of MUA 2840 or 2850;
(d) Bachelor of Music with a Concentration in Performance:
1. Organ — eight semesters of either MUA 2840 or 2850;
2. Piano — eight semesters of either MUA 2840 or 2850;
3. Voice — eight semesters of either MUA 2840 or 2850;
4. Winds or percussion — eight semesters of either MUA 2800 or 2810, as determined by the division directors;
5. Strings — eight semesters of MUA 2810;
6. Classic Guitar — eight semesters of either MUA 2840 or 2850;
7. Harp — eight semesters of a Major Performance Ensemble at the discretion of the Chairperson.
(e) Bachelor of Music with a Concentration in Music Management:
Six semesters of a Major Performance Ensemble of the principal instrument.
(f) Jazz Studies majors must fulfill the following specific ensemble requirements: Eight semesters of MUA 2820 (Note: Small groups such as jazztet may only fulfill the Performance Ensemble requirement by consent of the Division Director.)

Chamber music ensemble requirements for specific Bachelor of Music curricula:

Chamber music ensemble is defined as the appropriate section of MUA 2880. Note: MUA 2880 cannot substitute for the Performance Ensemble requirement.

1. Bachelor of Music with a Concentration in Performance —
(a) Organ (one semester);
(b) Piano (four semesters);
(c) Winds, percussion, strings (four semesters);
(d) Classic Guitar (four semesters);
2. Bachelor of Music with a Concentration in Jazz Studies (two semesters of jazz improvisation).

— Bachelor of Music Concentrations

Composition/Theory (120 Credits)

(a) MUT 2040, 2100, 2120, 3000, 3100, 3110, 4100, 4110, 5060 (or MUA 5630), 5220 (or MUT 5240);
(b) MUH 3310;
(c) MUA 1730, 1740, 1750, 1760, 3670;
(d) MUP 2210 (four semesters);
(e) PHI 3700 (satisfies General Education PL requirement);
(f) Senior Project — presentation of an original composition approved by the division director; OR presentation of a music theory lecture approved by the division director.

Instrumental Music Education (128 Credits)

(a) Eight semesters of the principal instrument selected from: MUP 2230, 2240, 2250 or 2260 at one credit per semester;
(b) One semester of MUA 1730; two semesters of MUA 1740; one semester of MUA 1750 and MUA 1760, plus satisfactory proficiency on orchestra instruments as prescribed by the Music Education Division;
(c) MUA 2720, 3670, 3680;
(d) MED 3500, 4540, 4550, 4560, 4570, 5590;
(e) MUT 3000;
(f) EDP 3310, RDG 4430;
(g) MUH 3310.

Vocal Music Education (126 Credits)

(a) MUP 2210 — eight semesters at one credit per semester;
(b) MUP 2220 — eight semesters at one credit per semester;
(c) MUA 3670;
(d) MED 2500, 3500, 4510, 4530, 4560, 4570, 5550, 5590;
(e) Six credits selected from MUA 1700, 1730, 1740, 1750 or 1760
(NOTE: Students must take either MUA 1700 or MUA 1730);
Minor in Music
The Music Department offers a minor in music for undergraduate students majoring in other disciplines. Requirements for the music minor consist of a minimum of twenty-two credits in the following courses:
(a) Music Theory and Ear Training — MUT 1140, 1150, 1160, 1170, 2140, and 2150;
(b) Two Music History courses selected from: MUH 3310, 3320, 3330, and MUH 1340 or 1350;
(c) Four semesters of a performance ensemble selected from: MUA 2800, 2810, 2820, 2840, and 2850.

Minor in Jazz Studies
for Instrumental Music Education Majors
The minor in jazz studies is designed for instrumental music education majors who wish to gain experience in jazz. Requirements for the jazz studies minor consist of twenty-two credits in the following courses:
a) MUT 2120, 5110, 5120;
b) MUA 2820 (two semesters), MUA 2880 (jazz improvisation), MUA 3790 (jazz section), MUA 5610;
c) MUH 3360.

Departmental Financial Aid
See the section on Scholarships and Financial Aid on page 175. Recipients of the following scholarships are chosen in May by the music faculty and awarded during the fall semester:
Joseph Fava Scholarship: Award to a guitar performance student when funding exists.
Detroit Federation of Musicians / David Kaplan Award: Open to an outstanding music major; available when funding exists.
Rebecca Katzman Froman Piano Scholarship: Open to an outstanding piano student.
Robert A. Harris Excellence in Choral Music Award: Awarded for excellence in choral performance; available when funding exists.
Mischa Kottler Scholarship: $500 award to piano performance major when funding exists.
Lawrence LaGore Endowed Memorial Scholarship: Awarded to an outstanding piano major; minimum 3.0 g.p.a. required.
Harry M. Langsford Scholarship: Available, when funding exists, to an outstanding choral or vocal student.
Robert F. Lawson Endowed Memorial Scholarship: Awarded to an outstanding music major; minimum 3.0 g.p.a. required.
LeFevre Scholarship: Awards of $800 open to any music major
Liberace Scholarship: Two awards, open to full-time music majors in jazz or classical curriculum, when funding exists.
Louiehead-Eldridge Piano Scholarship: Awarded to an outstanding piano performance major.
Christopher Mac Scholarship: Award open to outstanding member of the Men’s Glee Club, when funding exists.
Frank Murch Endowed Scholarship: Awarded to a Bachelor of Arts in music or piano performance.
Music Education Scholarship: Open to an outstanding music education major, when funding exists.
Music Study Club of Detroit Graduate Scholarship: Awarded to an outstanding graduate student.
Pantaleo Scholarship: Award open to an outstanding music major, when funding exists.
Additional practice with functional skills needed.

Prereq: MED 4540. Teaching techniques, materials and organization of instrumental music in secondary schools. (F)

5550 Choral Conducting and Rehearsal Techniques. Cr. 3
Prereq: MUA 2670 or equiv. Conducting and rehearsal methods and materials for secondary schools. (W)

5560 Secondary School Music Workshop. Cr. 1-3 (Max. 6)
Group participation in the study of class materials and teaching procedures for secondary music teachers. (Y)

5575 Topics in Music Education. Cr. 1
Course work requires attendance at Michigan Music Education Association State Inservice Conference, keeping of a reflective journal, and a follow-up project related to music teaching. (W)

5590 (CL) Computer Applications in Music Teaching. Cr. 2
Presentation of techniques and strategies for utilizing computer music software programs and MIDI equipment in music instruction. Material fee as announced in Schedule of Classes. (S)

6520 Elementary School Music Workshop. Cr. 1-3 (Max. 6)
Group participation in the study of class materials and teaching procedures for elementary music teachers. (Y)

6530 Conducting and Operating the School Band. Cr. 2-3 (Max. 6)
Individual instruction correlated with actual administration and direction of summer youth band. (S)

6540 Instrumental Music Workshop. Cr. 2-3 (Max. 6)
Current problems, procedures and materials pertaining to development of the instrumental music program in the schools. (S)

6550 College Teaching Preparation in Music. Cr. 2 (Max. 6)
Prereq: senior or graduate standing; consent of chairperson. Observation of instruction, class assistance and supervised instruction of undergraduate classes. Preparing lectures, quizzes and instructional material. (F,W)

MUSIC APPLIED COURSES (MUA)

1700 Guitar Class. Cr. 2 (Max. 8)
Prereq: music major; others by consent of instructor. Fundamentals in guitar playing; techniques, hand positions, bar chords, general performance practices. Material fee as indicated in the Schedule of Classes. (Y)

1710 Piano Class. Cr. 2 (Max. 8)
Not open to music majors after MUA 1790. Rudiments of rhythmic and staff notation, beginning keyboard technique, hand positions, scales, simple compositions. Material fee as indicated in the Schedule of Classes. (Y)

1730 String Class. Cr. 2 (Max. 6)
Prereq: MUT 1100 or equiv. Techniques and fundamental problems in the playing and teaching of stringed instruments. Material fee as indicated in the Schedule of Classes. (F,W)

1740 Woodwind Class. Cr. 2 (Max. 6)
Prereq: MUT 1100 or equiv. Techniques and fundamental problems in the playing and teaching of woodwind instruments. Material fee as indicated in the Schedule of Classes. (F,W)
1750  Brasswind Class. Cr. 2 (Max. 6)  
Prereq: MUT 1100 or equiv. Techniques and fundamental problems in the playing and teaching of brasswind instruments. Material fee as indicated in the Schedule of Classes.  
(F,W)

1760  Percussion Class. Cr. 2  
Prereq: MUT 1100 or equiv. Techniques and fundamental problems in the playing and teaching of percussion instruments. Material fee as indicated in the Schedule of Classes.  
(F)

1790  Piano Proficiency: Level I. Cr. 2  
Coreq: MUT 1140. Open only to music majors. Repertoire, scales, sight reading, harmonization, simple transposition. Certification of undergraduate core piano requirement on satisfactory completion of MUA 3790.  
(F,W)

2400  Introduction to the Music Business. Cr. 2  
Required for students in music management curriculum. General overview of the music profession; concerns of management in the music business.  
cepts of copyright law; licensing; publishing; songwriting and recording contracts. Research projects and/or readings.  
(W)

2600  Church Music and Materials I. Cr. 2  
Prereq: MUA 2670 and major in organ or church music. Practical application of material used in churches of various faiths. For choir directors and organists.  
(B:F)

2610  Church Music and Materials II. Cr. 2  
Prereq: MUA 2600. Continuation of MUA 2600.  
(B:W)

2690  General Lectures and Concerts. Cr. 0  
Lectures by visiting scholars; recitals by invited guest artists; student and faculty recitals, concerts and convocations.  
(F,W)

2720  Voice Class. Cr. 2 (Max. 8)  
Fundamentals in voice training. Correct breathing; tone placement; articulation vocalises.  
(F,W)

2790  Piano Proficiency: Level II. Cr. 2  
Prereq: MUA 1790 or equiv.; MUT 1140 or equiv. Open to music majors. Continuation of MUA 1790.  
(W,S)

2800  University Bands. Cr. 1  
Prereq: consent of director. Members of the Marching Band may have to participate in special rehearsals before the official opening of the fall semester; members of the Symphony Band are required to perform at the Commencement exercises, and exercises may take place after the official close of the fall or winter semesters.  
(F,W)

2810  University Symphony Orchestra. Cr. 1  
Prereq: consent of director.  
(F,W)

2820  Jazz Ensembles. Cr. 1  
Prereq: consent of director.  
(F,W)

2830  Men’s Glee Club. Cr. 1  
Prereq: consent of director.  
(F,W)

2840  Choral Union. Cr. 1  
Prereq: consent of director.  
(F,W)

2850  Concert Chorale. Cr. 1  
Prereq: consent of director.  
(F,W)

2860  (MUA 2860) Opera Workshop. (THR 2860) Cr. 1 (Max. 8)  
Prereq: consent of director.  
(F,W)

2870  Women’s Chorale. Cr. 1  
Prereq: consent of director.  
(F,W)

2880  Chamber Music and Special Ensembles. Cr. 1  
All forms including: Collegium Musicum, jazz improvisation, percussion ensemble, trios and quartets, and wind ensemble.  
(F,W)

3670  Conducting Techniques I. Cr. 2  
Prereq: MUT 2160, MUT 2170 or equiv. Rudiments of conducting; special attention to baton techniques.  
(F)

3680  Conducting Techniques II. Cr. 2  
Prereq: MUA 2670. Continuation of MUA 2670. Score reading and rehearsal techniques.  
(W)

3790  Piano Proficiency: Level III. Cr. 2  
Prereq: MUA 2790 or equiv.; MUT 1160 or equiv. Open only to music majors. Continuation of MUA 2790. Satisfactory completion of MUA 3790 leads to fulfillment of the undergraduate core piano proficiency requirement and to certification.  
(F,W)

4650  Directed Study: Internships. Cr. 1-3 (Max. 6)  
Prereq: music major; others by consent of instructor. Directly supervised professional experience in the music and creative arts industries and related fields (marketing, publicity, public relations).  
(T)

5600  Business of Music I. Cr. 2  
Marketing of music; basic concepts of copyright law; licensing; publishing; songwriting and recording contracts.  
(F)

5610  (CL) Introduction to Music Technology. Cr. 3  
Prereq: consent of instructor. Offered for undergraduate credit only. Introduction to role of technology in the field of music, including discussion of computers, software, synthesizers, MIDI, and digital recording. Students gain experience through assignments involving electronic instruments and recording gear. Material fee as indicated in the Schedule of Classes.  
(F)

5630  Introduction to Recording Techniques. Cr. 3  
Prereq: MUA 5610. Introduction to recording equipment and techniques, including microphones, mixers, monitors, power supply, signal processing, multi-track tape recorders, overdubbing, session procedures, and mixing down. Students are required to complete a final recording project. Material fee as indicated in the Schedule of Classes.  
(W)

5640  Electronic Music Synthesis I. Cr. 3  
Prereq: MUA 5610. Introduction to analog synthesizer programming, equipment, and techniques. Students required to design sounds for use in a final project. Material fee as indicated in the Schedule of Classes.  
(F)

5641  Electric Music Ensemble. Cr. 1  
Prereq: MUA 5610 or 5640. Performance ensemble utilizing electronic instruments and techniques.  
(W)

5650  Electronic Music Synthesis II. Cr. 3  
Prereq: MUA 5640. Digital synthesis methods including software-based, FM and other synthesis types. Assignments leading to a final project. Material fee as indicated in the Schedule of Classes.  
(W)

5660  Recording Workshop I. Cr. 1  
Prereq: music technology major or consent of instructor. Experience with recording studio equipment and operation through assigned projects. Assignments include in-studio and on-site recordings. Material fee as indicated in the Schedule of Classes.  
(F)

5661  Recording Workshop II. Cr. 1  
Prereq: MUA 5660. Advanced studio production techniques and master editing for product release; post production and packaging of material.  
(W)

5690  Stage Band Direction. Cr. 1 (Max. 3)  
Prereq: MUA 2670. Techniques of big-band direction in a jazz medium.  
(F,W)

5700  Business of Music II. Cr. 2  
Prereq: MUA 5600, or equivalent with consent of instructor. The relationship of music professionals to unions and guilds; `team’ concepts (agents, managers, attorneys, etc.); tax issues; business contracts; managing the career development of the music professional.  
(W)
5730  Harpsichord Class. Cr. 2 (Max. 8)
Prereq: MUA 3790 or equiv.  (F,W)

5790  Piano Accompanying. Cr. 2
Techniques of accompanying at the piano; analysis of styles, performance practices, and historical comparisons. Graduate students assigned special project and research paper.  (F)

5800  Topics in Music Management. Cr. 2
Prereq: consent of instructor. Scope and structure of the music industry on the local, national, and international levels, including artist management, live concert production and touring, recording film/video/TV, marketing, communications, publishing, and industry associations. Technology and the music industry, management projects in selected areas of the industry. Material fee as indicated in the Schedule of Classes.  (W)

MUSIC HISTORY COURSES (MUH)

1340  (VP) Music Appreciation: World Music. Cr. 3
Introduction to the musical styles of Africa, Asia, and South America.  (F,W)

1350  (VP) Music Appreciation: Popular Music to the Present. Cr. 3
Survey of popular styles in Western music. Concentration on relationships between past and contemporary popular music. Political, economic, social, and cultural influences.  (W)

1370  (VP) Music Appreciation: Beginnings to the Present. Cr. 3
No credit for music majors if taken after MUH 3320. Survey of Western music from its beginnings to the present. Developing musical understanding and critical listening skills by focusing on major composers and styles, and by concentrating on social, political and cultural influences.  (F)

2320  History of Opera. Cr. 3
Survey of opera, its history, development and literature.  (B)

2330  History of Oratorio. Cr. 3
Prereq: MUH 2320. Survey of oratorio, its history, development and literature.  (B)

3310  Music History and Literature I. Cr. 3
Prereq; sophomore standing and MUT 1160 or equiv.; music major. Antiquity to 1600. Survey of the most important developments in Western music history from antiquity to the end of the Renaissance. Concentration on major composers and styles, as well as on significant historical, philosophical, artistic and cultural influences on music.  (F)

3320  Music History and Literature II. Cr. 3
Prereq: MUT 1160 or equiv.; MUH 3310 or equiv. except for jazz studies majors. Baroque and Classical (1600-1800). Survey of important developments in Western music history from 1600 to 1800. Concentration on major composers and styles, as well as on significant historical, philosophical, artistic and cultural influences on music.  (W)

3330  Music History and Literature III. Cr. 3
Prereq: MUT 1160 or equiv.; MUH 3310 (except jazz studies majors) and MUH 3320, or equiv. Romantic to the present time. Survey of important developments in Western music history from 1800 to the present time. Concentration on major composers and styles, as well as on significant historical, philosophical, artistic and cultural influences on music.  (F)

3360  History of Jazz I. (MUH 5360) Cr. 3
Open only to undergraduate students. Survey of major developments in jazz from its beginnings to the present.  (F)

3390  History of Jazz II: 1950 to the Present. (MUH 5390) Cr. 3
Continuation of MUH 3360.  (W)

5300  Music Research. Cr. 3
Prereq: graduate standing in music or consent of instructor. Music bibliography and research techniques.  (F)

5340  Survey of World Music. Cr. 3
Prereq: upper division or graduate standing. Musical expressions of five or six non-European cultures enroute to a better understanding of the peoples themselves. Attention given to biases, culturally-determined learning patterns, and aesthetics.  (F,W)

5350  Performance Literature and Pedagogy. Cr. 3
Prereq: performance major in music. Survey of solo and chamber repertoire from the Renaissance to the present, for students’ major performance areas.  (Y)

5360  (MUH 3360) History of Jazz I. Cr. 3
Open only to post-bachelor and graduate students. Survey of major developments in jazz from its beginnings to the present.  (F)

5370  Diction and Song Literature I. Cr. 3
Singers’ diction in Italian, Latin, French and Spanish; methodologies, solo and chamber repertoire in these languages.  (B)

5380  Diction and Song Literature II. Cr. 3
Prereq: MUH 5370. Singers’ diction in German, Hebrew, Russian and English; methodologies, solo and chamber repertoire in these languages.  (B)

5390  (MUH 3390) History of Jazz II. Cr. 3
Prereq: MUH 5360. Continuation of MUH 5360.  (Y)

5600  Survey of Music History. Cr. 3
Open only to senior level and graduate students. General overview of the development of ideas in music history from ancient times to the present.  (F)

5993  (WI) Writing Intensive Course in Music. Cr. 0
Prereq: MUT 2160; junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: MUH 3320 or MUI 5997. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with course designated as a corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement.  (F)

6300  Music Criticism. Cr. 3
Prereq: upper division or graduate standing. Basics of music criticism and practical experience in writing criticism for publication.  (Y)

6310  Studies in Afro-American Music. Cr. 3
Contributions of Afro-Americans to the development of music in the United States.  (Y)

6320  Advanced History of Opera. Cr. 3
Prereq: graduate standing, MUH 5300. Survey of opera, its history, development and literature; research paper required.  (B)

6330  Advanced History of Oratorio. Cr. 3
Prereq: graduate standing; MUH 5300. Survey of oratorio, its history, development and literature; research paper required.  (B)

MUSIC PRIVATE INSTRUCTION (MUP)
The following courses (22xx series) are for students who wish to study voice or an instrument in a principal and/or secondary capacity. One course per semester is the usual election for the MUP 22xx series. Election of two courses concurrently in the MUP 22xx series must be a requirement of the student’s curriculum to be permitted
and requires consent of a music counselor and written consent of the Department Chairperson. A jury examination is required each semester for all students electing these courses.

**LIMITATION:** Open only to students with less than eight semesters of private performance course work including transfer credit.

**ELECTION FOR THREE CREDITS:** Open only to students in a performance curriculum or a combined curriculum of performance and music education, or theory, or composition, or music management. Not open to jazz studies majors.

**PREREQUISITES:** Major standing in a B.M. curriculum for which the MUP course is required; written consent Department Chairperson; and audition for first election.

**COREQUISITE:** Additional credits in any subject equal to eight credits, including MUP election. Performance ensembles in the MUA 28xx series are required by the student’s curriculum.

**FEES:** Special fees payable at the time of registration are assessed for these courses and are indicated in the Schedule of Classes.

### 2200 Organ. Cr. 1-3
Prereq: written consent of music adviser and department chair; coreq: MUA 28X performance ensemble as required by curriculum. Only open, by audition, to music majors in a B.M. curriculum who elect 8 credits or more. (F,W)

### 2210 Piano. Cr. 1-3
Prereq: written consent of music adviser and department chair; coreq: MUA 28X performance ensemble as required by curriculum. Only open, by audition, to music majors in a B.M. curriculum who elect 8 credits or more. (F,W)

### 2220 Voice. Cr. 1-3
Prereq: written consent of music adviser and department chair; coreq: MUA 28X performance ensemble as required by curriculum. Only open, by audition, to music majors in a B.M. curriculum electing 8 credits or more. (F,W)

### 2230 Stringed Instruments. Cr. 1-3
Prereq: written consent of music adviser and department chair; coreq: MUA 28X performance ensemble as required by curriculum. Only open, by audition, to music majors in a B.M. curriculum electing 8 credits or more. (F,W)

### 2240 Woodwind Instruments. Cr. 1-3
Prereq: written consent of music adviser and department chair; coreq: MUA 28X performance ensemble as required by curriculum. Only open, by audition, to music majors in a B.M. curriculum electing 8 credits or more. (F,W)

### 2250 Brasswind Instruments. Cr. 1-3
Prereq: written consent of music adviser and department chair; coreq: MUA 28X performance ensemble as required by curriculum. Only open, by audition, to music majors in a B.M. curriculum electing 8 credits or more. (F,W)

### 2260 Percussion Instruments. Cr. 1-3
Prereq: written consent of music adviser and department chair; coreq: MUA 28X performance ensemble as required by curriculum. Only open, by audition, to music majors in B.M. curriculum electing 8 credit hours or more. (F,W)

### 2270 Harp. Cr. 1-3
Prereq: written consent of music adviser and department chair; coreq: MUA 28X performance ensemble as required by curriculum. Only open, by audition, to music majors in B.M. curriculum electing 8 credits or more. (F,W)

### 2280 Classic Guitar. Cr. 1-3
Prereq: written consent of music adviser and department chair; coreq: MUA 28X performance ensemble as required by curriculum. Only open, by audition, to music majors in B.M. curriculum electing 8 credits or more. (F,W)

### 3290 Bayan. Cr. 1-3
Prereq: major standing in B.M. curriculum for which MUP course is required; audition for first election; written consent of music adviser and department chair. Open only to students with less than 10 semesters in private performance course work including transfer credit.

**The following courses (52xx series)** are for applied study in jazz. One course per semester is the usual election for the MUP 52xx series; however, some students may elect MUP 5210 and 5220 concurrently, in which case they must be authorized for the vocal jazz curriculum by the Director of the Jazz Division, have consent of a music counselor, and have written consent of the Department Chairperson. A jury examination is required each semester for all students electing one of these courses.

**LIMITATION:** Open only to students with less than ten semesters of private performance course work including transfer credit. Not open to students majoring in music in any B.A., B.S., M.A., or M.S. curriculum.

**PREREQUISITES:** Departmental approval for the jazz curriculum, written consent of Department Chairperson, and audition for first election.

**COREQUISITE:** MUA 2820.

**FEES:** Special fees are assessed for these courses and are indicated in the Schedule of Classes.

### 5210 Jazz Piano. Cr. 1
Prereq: written consent of music adviser and department chair; coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

### 5220 Jazz Voice. Cr. 1
Prereq: written consent of music adviser and department chair; coreq: MUA 2820. Only open, by audition, to jazz studies majors. (F,W)

### 5230 Jazz Strings. Cr. 1
Prereq: written consent of music adviser and department chair; coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

### 5240 Jazz Woodwinds. Cr. 1
Prereq: written consent of music adviser and department chair; coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

### 5250 Jazz Brasswinds. Cr. 1
Prereq: written consent of music adviser and department chair; coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

### 5260 Jazz Percussion. Cr. 1
Prereq: written consent of music adviser and department chair; coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

### 5280 Jazz Guitar. Cr. 1
Prereq: written consent of music adviser and department chair; coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

### MUSIC THEORY COURSES (MUT)

#### 1100 Elementary Music Theory. Cr. 3
No degree credit for music majors. Terminology and standard notation, including intervals, triads, scales, rhythm, correlated ear training, and general musicianship. (F,W)

#### 1140 Theory I. Cr. 3
Prereq: MUT 1100 or satisfactory equiv. by examination. Prior knowledge of chords, clefs, and key signatures. Triads, intervals, principles
of SATB part-writing, voice leading and melody harmonization, including all diatonic triads, dominant and super tonic seventh chords, inversions, and nonharmonic tones. (F,W)

1150 Ear Training I. Cr. 1
An introduction to sight singing and the basics of solfeggio. Beginning with stepwise diatonic movement and proceeding to all melodic intervals and modulation to closely related keys. Simple and compound meters and syncopation are also included. (F,W)

1160 Theory II. Cr. 3
Prereq: MUT 1140. All seventh chord types, altered chords (tonicizing chords, modal mixing), and modulation. Binary design and correlated analysis. (W,S)

1170 Ear Training II. Cr. 1
Prereq: MUT 1150. A continuation of MUT 1150. Sight-singing chromatic melodies, modal melodies, less common meter signatures and more complex rhythmic problems. (W,S)

2040 Keyboard Harmony. Cr. 1
Prereq: MUA 3790. Harmonic progressions applied to keyboard; figured bass; harmonization of soprano or bass; modulation transposition and score reading. (Y)

2100 Counterpoint. Cr. 2
Prereq: MUT 2140. Counterpoint of the Baroque period with emphasis on the style of J. S. Bach. (F)

2120 Jazz Theory and Harmony. Cr. 3
Prereq: MUT 1160. Harmonic, rhythmic and melodic concepts used in jazz including basic chord nomenclature, non-tertian sonorities and advanced improvisation. (W)

2140 Theory III. Cr. 3
Prereq: MUT 1160. Nineteenth century trends including chromatic harmony, species counterpoint, voice leading, structure and tonal organization. (F)

2150 Ear Training III. Cr. 1
Prereq: MUT 1170. Melodic dictation, simple and compound time, syncopation, interval and scale recognition and error detection. (F)

2160 Theory IV. Cr. 3
Prereq: MUT 2140. Twentieth century music; impressionistic techniques. Mainstream compositional devices of melody, harmony and rhythm; serial music, electronic music, aleatoric music, contemporary notation. (W)

2170 Ear Training IV. Cr. 1
Prereq: MUT 2150. Harmonic dictation, four-part dictation including recognition of common chord progressions, cadences, non-harmonic tones, chord color and seventh chords. (W)

3000 Orchestration. Cr. 2
Prereq: MUT 2160. Practical course in arranging music for orchestra, including study of transposition, arrangements from a piano score; general treatment of range, relationship, timbre, balance of orchestral instruments. (F)

3100 Composition I. Cr. 2
Prereq: MUT 2160. Introduction to creative writing. Creative properties of melodic line in relation to rhythm, tonality, cadence and form; aesthetic considerations. Writing for unaccompanied instruments. (F)

3110 Composition II. Cr. 2
Prereq: MUT 3100. Continuation of MUT 3100. Emphasis on creative aspects of rhythm, cadence, tonal polarity, concepts of consonance and dissonance within framework of larger texture. (W)

4100 Composition III. Cr. 2
Prereq: MUT 3110 and 4060. Creative writing in twentieth-century idioms. Aesthetic, stylistic and formal problems in composition employing contemporary techniques. (F)

4110 Composition IV. Cr. 2
Prereq: MUT 4100. Continuation of MUT 4100. (W)

5040 History of Music Theory. Cr. 3
Prereq: junior standing. Theoretical writings from Plato to Rameau to Schenker, in historical contexts. (I)

5060 Advanced Orchestration. Cr. 3
Prereq: MUT 3000. Arranging and scoring for orchestra in all forms of ensemble structure. (I)

5110 Jazz Arranging and Composition I. Cr. 3
Prereq: MUT 2160 and 2170. Creative writing for small jazz and pop ensembles. Arranging for three to five pieces including ‘head’ arrangements, block chord technique and contrapuntal writing. (F)

5120 Jazz Arranging and Composition II. Cr. 3
Prereq: MUT 5110. Creative writing for larger jazz and pop ensembles; jazz arranging for six to eighteen pieces combining various textures and timbres. (W)

5130 Jazz Arranging and Orchestration. Cr. 3
Prereq: MUT 3000, 5120. Arranging pieces with concentration on orchestrating large jazz ensembles. (F)

5220 Introduction to Schenkerian Analysis. Cr. 3
Prereq: MUT 5997 or equiv. Aesthetic premises and basic analytic procedures of tonal music, viewed from a Schenkerian perspective. Applications of graphic technique to short phrases and to larger forms (e.g., sonata) from a wide repertory (1700-1900). (B)

5240 Analysis of Twentieth-Century Music. Cr. 3
Prereq: MUT 5997 or equiv. Aesthetic and technical procedures of twentieth-century music. Applications of pitch-class set and interval analysis to short phrases and to large-scale organizational strategies of entire pieces. (B)

5600 Survey of Music Theory. Cr. 3
Open only to senior level and graduate students. General overview of the development of harmony, voice-leading, and form. (F)

5997 Analytic Technique. Cr. 4
Prereq: MUT 2140, 2150; MUH 3320, MUH 3330. Capstone course for Music Department. Structural analysis of tonal music in historical perspective. (W)
THEATRE
Office: 3225 Old Main; 313-577-3508
Chairperson and Director, University Theatres: Blair Anderson
Website: http://www.theatre.com.wayne.edu

Professors
N. Joseph Calarco, Robert T. Hazzard (Emeritus), Lazar Kaushansky, Leonard Leone (Distinguished Professor Emeritus), David J. Magidson, Nira Pullin, Anthony B. Schmitt (Emeritus), Thomas H. Schraeder, Russell E. Smith (Emeritus), James Thomas

Associate Professors
Blair Anderson, John Woodland

Assistant Professors
Jerry Cleveland, Fred Florkowski, Lavinia Hart

Instructor
Shaun Sewell

Lecturers
Mary Copenhagen, Nancy Lipschultz, Greg Trzaskoma

Theatre Support Staff
Lanny Birdsell, Michael Donohue, Matthew Gribbin, Beth Thibault

Adjunct Faculty
Mary Cooney, Gillian Eaton, Debra Wicks

Degree Programs
BACHELOR OF ARTS with a major in theatre

BACHELOR OF FINE ARTS with a major in theatre

*MASTER OF ARTS with a major in theatre

*MASTER OF FINE ARTS with a major in theatre and concentrations in acting, scenery design, costume design, lighting design, theatre management, and stage management

*DOCTOR OF PHILOSOPHY with a major in theatre

The primary aim of the Theatre Department is pre-professional training in theatre arts. Undergraduate majors may prepare for careers in acting and design/technology, and related fields. The Department sponsors a large number of production activities and practicum experiences including the Bonstelle Theatre, Studio Theatre Director’s Series, and Student Stage. Participation in these activities is available to all University students. This departmental information is intended for use in conjunction with advising. In all cases, regardless of advice given, students are responsible for meeting and satisfying all University, College, and Department requirements.

Bachelor of Arts
With a Major in Theatre

Admission requirements for the program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

* For specific requirements, see the Wayne State University Graduate Bulletin.

DEGREE REQUIREMENTS: Candidates must complete a minimum of 120 credits in course work, including satisfaction of the University General Education Requirements (see page 23), College degree requirements (see page 178), and the major requirements cited below. A minimum of forty-five credits in theatre course work is required, as shown in the following curricular tables, completed with a grade of ‘C’ or above. Students must also fulfill the foreign language requirement (see page 173). All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 173. For complete departmental requirements regarding curriculum, plan of work, and productive participation, see the Undergraduate Curriculum Guide, available in the Theatre Department Office.

Major Requirements: Students pursuing the degree Bachelor of Arts with a major in theatre must complete a minimum of forty-five credits, distributed as follows:

GENERAL STUDIES/HISTORY (Twelve Credits):

THR 1010 -- (VP) Introduction to the Theatre: Cr. 3
THR 1020 -- Play Analysis: Cr. 3
THR 5100 -- Theatre History: Cr. 3

Plus one of the following electives:

THR 1030 -- (VP) Black Theatre: An Introduction: Cr. 3
THR 5210 -- Theatre History II: Cr. 3
THR 5190 -- Costume History for Theatre: Cr. 3

PERFORMANCE/PRODUCTION (Fifteen Credits):

THR 1040 -- Acting I (Improvisation): Cr. 3
THR 1050 -- Acting II (Technique and Process): Cr. 3
THR 2080 -- Theatre Laboratory (once each for THR 1040 & 1050): Cr. 4

THR 4997 -- Theatre Capstone Experience: Cr. 3

Plus one of the following electives:

THR 2110 -- Voice Lab I: Cr. 2
THR 2010 -- Stage Movement I: Cr. 2
THR 2180 -- Stage Management Lab: Cr. 3
THR 3050 -- Principles of Makeup: Cr. 2
THR 3110 -- Principles of Theatre Management: Cr. 3
THR 5050 -- Play Direction I: Cr. 3

DRAMATIC LITERATURE (Nine Credits):

THR 5120 -- Development of Drama I: Cr. 3
THR 5100 -- Theatre History I: Cr. 3

Plus two of the following electives:

THR 5220 -- Black Dramatic Literature: Cr. 3
THR 5230 -- Pioneers of the Modern Theatre: Cr. 3
THR 5250 -- Playwriting: Cr. 3
THR 6120 -- Development of Drama II: Cr. 3

DESIGN/TECHNICAL THEATRE (Nine Credits):

THR 2130 -- Stagecraft: Cr. 3
THR 2500 -- Introduction to Design: Cr. 3

Plus one of the following electives:

THR 3050 -- Principles of Makeup: Cr. 2
THR 5190 -- Costume History for Theatre: Cr. 3
THR 5010 -- Theatre Costuming I: Cr. 3
THR 5070 -- Stage Lighting: Cr. 3
THR 5080 -- Stage Design: Cr. 3
THR 2180 -- Stage Management Lab: Cr. 3

Bachelor of Fine Arts
With a Major in Theatre

The Bachelor of Fine Arts with a Major in Theatre is an intensive pre-professional curriculum that must be followed in consultation with a B.F.A. adviser in theatre. The program is designed to provide a broad understanding and an opportunity for full experience in the theatre arts through a curriculum of pre-professional training. The B.F.A. program is divided into two curricula: the performance curriculum,
emphasizing acting; and the production curriculum, concentrating upon design and technical theatre.

**Admission requirements** for the program are satisfied by the general requirements for undergraduate admission to the University (see page 15), as well as through auditions and/or interviews after the completion of prerequisite courses and usually at the end of the senior year.

**Matriculation:** Classes for theatre students begin immediately in the freshman year, though students do not officially become majors until the junior year. The courses listed below must be taken in the freshman and sophomore years, and prerequisites for auditioning and/or interviewing for the B.F.A. program. Students should check the Department's curriculum guide (available at the Theatre Office, 3225 Old Main) for a suggested Plan of Work and consult with departmental undergraduate advisers before program is begun.

**Degree Requirements:** Candidates must complete a minimum of 120 credits including satisfaction of the University General Education Requirements (see page 23), College degree requirements (see page 178), and seventy-seven credits in theatre courses including the major requirements listed below. The minimum grade for each course required in the major, which must be taken in the Department of Theatre, must be no less than a 'C' in order for the course credit to count toward completion of the degree. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 173.

**Acting B.F.A.: Prerequisites**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>THR 1010 -- Intro. to Theatre</td>
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<tr>
<td>THR 1020 -- Play Analysis</td>
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<tr>
<td>THR 1040 -- Acting I</td>
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<td>THR 1050 -- Acting II</td>
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<tr>
<td>THR 2080 -- Theatre Laboratory</td>
<td>4</td>
<td>(four credits)</td>
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<tr>
<td>THR 2010 -- Stage Movement I</td>
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<td>THR 2110 -- Voice Lab I</td>
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<td>THR 2130 -- Stagecraft</td>
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<td>THR 2500 -- Intro. to Design</td>
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<td>THR 3050 -- Stage Makeup</td>
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Two courses in Theatre History (THR 5100, 5210)

**Acting B.F.A.: Requirements**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>THR 2020 -- Stage Movement II</td>
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<td>THR 3020 -- Stage Movement III</td>
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<td>THR 3040 -- Stage Movement IV</td>
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<td>THR 2030 -- Acting III</td>
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<td>THR 2040 -- Acting IV</td>
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<td>THR 3010 -- Acting V</td>
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<tr>
<td>THR 2080 -- Theatre Laboratory</td>
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<td>(an additional four credits)</td>
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<tr>
<td>THR 2170 -- Voice Lab II</td>
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<td>THR 3080 -- Voice Lab III</td>
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<td>THR 3090 -- Voice Lab IV</td>
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<tr>
<td>THR 5050 -- Directing I</td>
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<tr>
<td>THR 5220 -- Black Dramatic Literature</td>
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<tr>
<td>or THR 5230 -- Pioneers of Modern Theatre</td>
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<tr>
<td>Two courses in Development of Drama (THR 5120, 6120)</td>
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<td>THR 5993 -- (WI) Writing Intensive Course in Theatre</td>
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<td>THR 4997 -- Capstone Course</td>
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<td>Additional electives: three credits</td>
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**Design/Technology B.F.A.: Prerequisites**

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<td>THR 1020 -- Play Analysis</td>
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<td>ADR 1050 -- Drawing I</td>
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<td>ADR elective</td>
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<tr>
<td>THR 2080 -- Theatre Laboratory</td>
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<td>(four credits)</td>
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<td>THR 2130 -- Stagecraft</td>
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<td>THR 2500 -- Intro. to Design</td>
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<td>THR 3050 -- Stage Makeup</td>
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<tr>
<td>THR 5010 or THR 5070 or THR 5080</td>
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<td>-- Costuming I</td>
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<tr>
<td>or THR 5080 -- Stage Design</td>
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<td>-- Stage Lighting</td>
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<tr>
<td>(NOTE: The two courses not elected as a Prerequisite must be elected as Requirements.)</td>
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<tr>
<td>Two courses in Theatre History</td>
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<td>(THR 5100, 5210)</td>
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**Design/Technology B.F.A.: Requirements**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>THR 2160 -- Technical Theatre Problems (eight credits)</td>
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<tr>
<td>The two THR courses not elected from the THR 5010 / 5070 / 5080</td>
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<td>selection in Prerequisites, above.</td>
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<tr>
<td>THR 5050 -- Directing I</td>
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<tr>
<td>THR 5220 -- Black Dramatic Literature</td>
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<td>THR 4997 -- Capstone Course</td>
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<tr>
<td>Additional electives: twelve credits</td>
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**Minor in Theatre**

The minor is designed to be an overview of theatre arts and crafts for those with an avocational interest in theatre or those who may wish to develop valuable competencies for educational situations. It offers a general familiarity with various aspects of theatre and also creates an opportunity for a minor emphasis in either acting, directing, or design.

**Required Core Courses**

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<td>THR 1040 -- Acting I: Cr. 3</td>
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<td>THR 2130 -- Stagecraft: Cr. 3</td>
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<tr>
<td>THR 5100 -- Theatre History I: Cr. 3</td>
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<tr>
<td>THR 5210 -- Theatre History II: Cr. 3</td>
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**Electives**

One of the following:

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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THR 2500 -- Introduction to Design for the Theatre: Cr. 3</td>
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<td>THR 5070 -- Stage Lighting: Cr. 3</td>
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<td>THR 5010 -- Theatre Costuming I: Cr. 3</td>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THR 5050 -- Play Direction I I (Prereq: THR 5030): Cr. 3</td>
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<tr>
<td>THR 5120 -- Development of Drama I: Cr. 3</td>
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**Departmental Financial Aid**

See the section on Scholarships and Financial Aid on page 175. Detailed information on all Department scholarships and awards is available in the department office.

- The Blakeley-Molson Scholarship Fund: Monetary award open to any senior in the theatre program.
- Francis Delfo Scholarship: Awarded to any theatre major of Albanian descent.
- The Tracey Lupo Memorial Scholarship: Monetary award open to any full-time undergraduate student with preference given to female entering the junior year.
- National Costumes Association Memorial Endowment Fund: Monetary awards open to any student majoring in theatre with concentration in costuming.
- Russell McLaughlin Memorial Scholarship Fund: Monetary award open to any undergraduate student in the theatre program.

College of Fine, Performing, and Communication Arts 211
Introduction to vocal production. Emphasis on relaxation, breathing techniques, and the production of vocal sounds.

2110 Voice Lab I. Cr. 2

Prereq: THR 2170. Continuation of vocal and articulation work and an introduction to consonant sounds.

2120 Play Analysis. Cr. 3

Prereq: THR 1040. Continuation of THR 1040; scene study, improvisation in development of actor’s craft.

1020 Play Analysis. Cr. 3

Reading and structural analysis of plays. Selected nineteenth and twentieth century plays.

2010 Stage Movement I. Cr. 2

Required of B.F.A. acting majors. Recommended for all second year acting students. Introduction to the principles, practices, and exercises in body technique and stage movement. Material fee as indicated in the Schedule of Classes.

2020 Stage Movement II. Cr. 2


2030 Acting III. Cr. 3

Open only to B.F.A. acting majors. Study and exercise in the fundamentals of the actor’s craft. Emphasis on the development of the actor’s inner resources as applied to dramatic action, and consideration of basic stage techniques.

2040 Acting IV. Cr. 3

Prereq: THR 2030. Further development of the techniques covered in THR 2030 and basic principles of character building. Emphasis on the development of a role through script, exercises and scene work.

2080 Theatre Laboratory. Cr. 1-4 (Max. 8, B.F.A. technical students; max. 3, B.A. students)

Supervised laboratory in technical and managerial facets of theatre in production.

2110 Voice Lab I. Cr. 2

Introduction to vocal production. Emphasis on relaxation, breathing techniques, and the production of vocal sounds.

2120 Play Analysis. Cr. 3

Prereq: THR 1040. Continuation of THR 1040; scene study, improvisation in development of actor’s craft.

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Prereq: THR 2030. Further development of the techniques covered in THR 2030 and basic principles of character building. Emphasis on the development of a role through script, exercises and scene work.

2080 Theatre Laboratory. Cr. 1-4 (Max. 8, B.F.A. technical students; max. 3, B.A. students)

Supervised laboratory in technical and managerial facets of theatre in production.
3110 Principles of Theatre Management. Cr. 3
Introduction to the principles and practices of theatre management. Season selection, advertising, budgeting, marketing and fundraising are among the areas to be covered. (Y)

3990 Directed Study. Cr. 1-4 (Max. 4)
Prereq: theatre major with 16 credits in the Department. (T)

4997 Theatre Capstone Experience. Cr. 3
Prereq: final semester senior standing; prior consent of project adviser and undergraduate supervisor. Final exit project required for graduating seniors. (W)

5010 Theatre Costuming I. Cr. 3
Prereq: THR 1010 or 1030 recommended. Introduction to costume design and construction. Laboratory projects coordinated with University Theatre productions. Material fee as indicated in the Schedule of Classes. (F)

5020 Theatre Costuming II. Cr. 3
Prereq: THR 5010. Advanced costume design projects concentrating on the expression of character through design principles. Further development of drawing and rendering skills. (W)

5040 Stage Lighting. Cr. 3
Theory and practice in stage lighting. Examination of lighting in composition and the aesthetics of light through projects in the stage lighting laboratory. Discussion of applications of lighting instrumentation and control equipment to theatrical production. Participation in lighting University Theatre productions is required. (F)

5050 Play Direction I. Cr. 3
Prereq: THR 3050. Principles and theories of stage movement, blocking, casting, rehearsing. Students required to direct scenes and one-act plays for class presentation. (F)

5070 Stage Lighting. Cr. 3
Prereq: THR 5080. Laboratory theory course in stylistic characteristics of modern stage designs. Advanced problems in scenic design. (I)

5100 Theatre History I. Cr. 3
Required of all B.F.A. majors. The development of the physical theatre and the evolution of production methods in Greek, Medieval, Renaissance, and English Restoration theatres with the correlation of the cultural environment of each period. Material fee as indicated in the Schedule of Classes. (F)

5120 Development of the Drama I: Greek to Eighteenth Century. Cr. 3
Prereq: THR 5140. Laboratory and demonstration course as an introduction to painting for the stage, with an emphasis on the materials, texturing techniques, three-dimensional effects and the beginning work from painter’s elevations. Material fee as indicated in the Schedule of Classes. (I)

5160 Introduction to Scene Painting. Cr. 3
Prereq: THR 5140. Laboratory and demonstration course of the design or technical theatre student. Materials, techniques, styles of scene painting. Material fee as indicated in the Schedule of Classes. (I)

5170 Modern Acting Styles and Theories. Cr. 3
Prereq: three undergraduate courses in acting or equivalent experience. Advanced lecture and performance course to develop the process of analysis, creation, and performance of dramatic characters as required by today’s film, television and theatre disciplines. (S)

5190 Costume History for the Theatre. Cr. 3
Prereq: THR 5010. Survey of historical trends and patterns in the development of costume as related to various periods and genres of theatre. (I)

5210 Theatre History II. Cr. 3
Prereq: THR 5100 or consent of instructor. Continuation of THR 5100. From English and continental eighteenth century to contemporary European and American theatres. Material fee as indicated in the Schedule of Classes. (W)

5220 (THR 5220) Black Dramatic Literature. (AFS 5220) Cr. 3
Critical study of significant black dramatists of the American stage: Willis Richardson, Marita Bonner, Randolph Edmonds, Langston Hughes, Alice Childress, Lorraine Hansberry, Ed Bullins, Amiri Baraka, Ntozake Shange, and August Wilson. (Y)

5230 Pioneers of the Modern Theatre. Cr. 3
Prereq: upper division standing. Stanislavski, Meyerholdt, Artaud, Gordon Craig, Brecht; lectures and creative projects. (B)

5250 Playwriting. Cr. 3
Prereq: upper division standing. Stanislavski, Meyerholdt, Artaud, Gordon Craig, Brecht; lectures and creative projects. (B)

5500 Special Topics in Theatre. Cr. 1-3 (Max. 6)
Specialized studies in theatre performance, history, criticism, management, design, and technology. Topics to be announced in Schedule of Classes. (I)

5993 (WI) Writing Intensive Course in Theatre. Cr. 0
Prereq: three undergraduate courses in acting or equivalent experience. Advanced lecture and performance course to develop the process of analysis, creation, and performance of dramatic characters as required by today’s film, television and theatre disciplines. (S)

6010 Studio I. Cr. 1-3
Prereq: graduate standing. Open only to members of the Hilberry Acting Company and M.A., M.F.A., and Ph.D. candidates in management. Examination and analysis of a specific dramatic genre, style or historic period as it relates to acting, directing, or management. Correlative performance or other practical projects. Subject matter coordinated with the repertory of Hilberry Theatre. (F)

6020 Studio II. Cr. 1-3
Prereq: THR 6010. Open only to members of Hilberry Acting Company and M.A., M.F.A., and Ph.D. candidates in management. Continuation of THR 6010. (W)

6030 Creative Dramatics for Children. Cr. 3
Creative dramatics and formal playmaking for and by children. (I)
6050  Voice and Speech for the Stage I. Cr. 1
Open only to Hilberry company members. Introduction to American
standard speech using Edith Skinner’s technique; introduction to
FitzMaurice vocal technique.  (F)

6060  Costume Design for the Theatre. Cr. 3 (Max. 6)
Advanced phases of costume design and construction. Source mate-
rial for historical and national costumes.   (I)

6070  Theatrical Movement and Dance Styles I. Cr. 1
Open only to Hilberry company members. Pilates Method of body
conditioning; learning and perfecting movements of the body at
beginning and intermediate levels.   (F)

6080  Advanced Stage and Film Makeup. Cr. 2
Prereq: THR 3050. Continuation of basic principles applied in THR
3050; emphasis on new makeup materials; experimentation with
prosthesis and design for problem makeup. Material fee as indicated
in the Schedule of Classes.   (I)

6090  Professional Lighting Design I. Cr. 3
Prereq: THR 5300 or consent of instructor. Examination of the
responsibilities and skills needed to function as a professional light-
ing designer. Varied styles of theatrical production, the lighting
designer’s communication with other professionals, use of computers
in lighting design process, graphic presentation of lighting design
concepts.   (Y)

6100  Voice and Speech for the Stage II. Cr. 1
Prereq: THR 6050. Open only to Hilberry company members. Con-
tinuing instruction in Skinner and FitzMaurice/Linklater.   (W)

6110  Theatrical Movement and Dance Styles II. Cr. 1
Prereq: THR 6070. Open only to Hilberry company members. Contin-
uation of THR607. Advanced level.   (W)

6120  Development of the Drama II: Nineteenth Century to
Modern. Cr. 3
Plays and theories of the theatre from the nineteenth century to mod-
er times; relation of drama to an era and its theatre.   (W)

6190  Professional Lighting Design II. Cr. 3
Prereq: THR 5300 or consent of instructor. Continuation of THR
6090. Employment of theatrical lighting techniques in non-theatrical
applications such as film and video; preparation and presentation of
a lighting design portfolio; roles of unions in theatrical lighting design.
(B:W)

6300  Advanced Studies in Theatre Management. Cr. 3
Prereq: MFA theatre management candidate or consent of instructor.
Topics include: arts advocacy and arts in society, strategic planning
and organizational strategies for producing theatres, other issues. (I)

6350  Human Resources and Financial Management for
Theatres. Cr. 3
Prereq: MFA theatre management candidate or consent of instructor.
Topics include: leadership, group dynamics, staffing, employment
and production-related contracts, accounting and budgeting for non-
profit.   (I)

6500  Public Relations and the Theatre. Cr. 3
Prereq: MFA theatre management candidate or consent of instructor.
Press writing and public relations for arts organizations. Topics
include: writing, media relations, controlling public image.   (I)

6550  Marketing the Theatre. Cr. 3
Prereq: MFA theatre management candidate or consent of instructor.
Marketing strategies for arts organizations. Topics include: subscrip-
tion and membership sales, individual ticket sales.   (I)
LAW SCHOOL

DEAN: Joan Mahoney
The Study of Law at Wayne State University

History and Goals of the Law School
Wayne State University Law School has been a source of lawyers for Michigan and the rest of the nation for more than seventy years. A group of public-spirited lawyers led by Judge Allan Campbell, in cooperation with the Board of Education of the City of Detroit, established the new law school in 1927 as part of the Colleges of the City of Detroit. The Law School and other colleges grew and flourished and were subsequently renamed Wayne University. In 1956, the University joined the University of Michigan and Michigan State University as one of the State’s three major public universities, and was renamed Wayne State University.

Wayne State University is an institution dedicated to excellence in education and research. The focus of the Juris Doctor (J.D.) program is preparation of lawyers for the wide variety of professional opportunities available with law firms, corporations, public interest groups, government, and many law-related fields. The rich and varied educational program not only teaches the legal rules by which our business and personal affairs are governed in a complex society, but also instills an appreciation of the larger role of the legal profession as it shapes society’s values and institutions. The program stresses experiences designed to develop the skill of written expression, and to provide oral advocacy training in trial and appellate settings. In addition to the traditional classroom component, the Law School offers the opportunity to enrich legal education with real-life legal experience. Students are encouraged to take advantage of the special opportunities available in the Detroit metropolitan area for internships with judges, prosecutors' and defenders’ offices, and public interest law practices.

The Law School’s faculty is actively involved in scholarly research. Professors at Wayne State University Law School make significant contributions to the understanding of issues in environmental law, taxation, criminal procedure, constitutional law, urban law and many other fields. Their books and articles contribute to the depth and quality of classroom teaching. It is the interaction of teaching and research which creates an especially stimulating environment for the law student.

The Law School takes great pride in its diversity. The full-time faculty includes individuals experienced in local, state and federal government, others who have served as judicial clerks for federal judges, a number with backgrounds in private practice, and others who are well known public interest advocates. They combine excellent academic credentials with practical experience. The faculty is committed to classroom teaching excellence and to advancing the state of professional knowledge through scholarship. The Law School is fortunate to be able to recruit excellent part-time faculty from the Detroit metropolitan area. Respected judges and practitioners bring valuable and specialized professional perspectives to the adjunct faculty.

Accreditation
Wayne State University Law School is accredited by both of the major national accrediting agencies for legal education: the American Bar Association and the Association of American Law Schools.

National Recognition
The Law School has a Chapter of the Order of the Coif, the national honorary society dedicated to the highest standards of legal scholarship. Membership is limited to the top ten percent of each graduating class, elected by the faculty.

Law School Setting
Wayne State University is located in the heart of the University/Cultural Center area about four miles from downtown Detroit. Within a few blocks of the Law School are the Detroit Public Library, the Detroit Institute of Arts, the International Institute, the Detroit Historical Museum, the Detroit Science Center, and the Museum of African American History. South of the main campus is the Detroit Medical Center and the Wayne State University Medical School. State and federal courts and offices are concentrated in the downtown area.

The Law School is located on the main campus adjacent to the Ferry and Gullen Malls, convenient to the major University library complex and the University’s Hilberry Theatre, which houses one of the most distinguished graduate theatre repertory companies in the United States. The Law School complex includes the classroom building, the Law Library, and a three-story expansion which opened in fall 2000. The expansion houses all student services offices, law publications suites and faculty offices, and features a 250-seat auditorium. The classroom building has five auditoriums with terraced seating designed to enhance the educational experience. There is also a lounge area for informal conversation between classes.

Arthur Neef Law Library
Wayne State University’s Law Library is the second largest in Michigan, and twenty-first largest in the United States. It is a major resource for faculty and students of the Law School, and for members of the local and state bar, representatives of state and federal agencies, and alumni. A modern computer laboratory provides the setting for training of students in computerized legal research. A complete description of the library, its facilities and collections, may be found on page 59.

Law Degrees
The Law School offers academic programs leading to the degrees of Juris Doctor (J.D.) and Master of Laws (LL.M.). The J.D. is a graduate degree requiring a baccalaureate degree as a prerequisite. The LL.M. is a graduate degree offered by the Law School in the fields of taxation, labor law, and corporate and finance law which requires as prerequisite the J.D. or its equivalent.

JURIS DOCTOR

MASTER OF LAWS

MASTER OF LAWS in Corporate and Finance Law

MASTER OF LAWS in Labor Law

MASTER OF LAWS in Taxation
JURIS DOCTOR (J.D.) PROGRAM

First Year Day Program
The first-year day program is a full-time two-semester program which begins only in the fall. Students must take all required first-year courses. The fall term curriculum consists of Contracts, Civil Procedure, Torts, Criminal Law, and Legal Writing and Research, for a total of fifteen credits. In the winter term, students complete the second semester of Contracts, Civil Procedure, and Legal Writing and Research as well as Property and Constitutional Law I for a total of fifteen credits. Students in the day program are strongly discouraged from employment of any type during the first year.

Evening Program
The Law School offers a part-time program which enables students to complete their J.D. requirements in four to six years. The first-year evening curriculum is mandatory and consists of two semesters of Civil Procedure, Contracts, and Legal Writing and Research. In the second year of the evening program, students take Property, Torts, Criminal Law, and Constitutional Law I, and may choose additional electives. Most evening classes are held from 6:10 to 8:10 p.m., Monday through Thursday. To provide a wider selection for evening students, several classes are also offered from 4:00 to 6:00 p.m., Monday through Friday. Class size is generally smaller in evening courses than in day classes.

Combined Day/Evening Program
The combined day/evening program is designed to meet the needs of students who wish to complete law school in three years, but who prefer to take as many classes as possible in the evening. The program may be elected by any applicant.

In the combined day/evening program, first-year students must take Civil Procedure, Contracts, and Legal Writing and Research in the evening, and Property or Torts during the day. (Students who wish may take both Property and Torts and an elective during the day of the first year.) Criminal Law will be taken in the evening of the second semester of the second year.

Students in the combined program who complete all six courses open to them will have twenty-seven credits at the end of their first year, only three credits short of the thirty credits completed by full-time day students. These three credits can be readily made up during the summer or in subsequent academic years, allowing students in the combined day/evening program to complete the degree in three years if they so choose.

Legal Writing and Research
The Law School is noted for its excellent legal writing and research program, which is conducted by five full-time lecturers, one of whom serves as director of the program. The textbook and related materials, developed by current and former instructors at the Law School, are used by many other law schools around the country.

A major part of the first-year curriculum is Legal Writing and Research, taught in small sections. The two-semester course begins with a mandatory orientation program. Following orientation, students meet with their instructors in weekly class sessions and in frequent individual conferences. In the fall term, class time is primarily devoted to the development of writing, organization, and case analysis skills. Students learn to use library materials by researching a legal problem in small groups.

In the winter term, instructors teach oral and written appellate advocacy skills. Students draft an appellate brief relying on a comprehensive trial court record, and deliver an appellate oral argument before a three-judge panel of practicing attorneys.

Upperclass Program
After completing the required first-year day or combined day/evening curriculum, or the first- and second-year evening curriculum, students may choose among an extensive listing of elective courses and seminars, including interdisciplinary courses covering a broad range of subjects.

Students may elect courses in the day or evening or a combination of day and evening courses. It is not uncommon for evening students to elect day classes, and for day students to elect evening classes. Upperclass students may change from one program to the other as their schedules require, and may elect courses in the eight-week summer term to accelerate or to accommodate individual needs.

Degree Requirements
The requirements for the Juris Doctor degree are:
1. A bachelor's or equivalent degree upon admission.
2. Completion of a minimum of eighty-six semester credits, with an overall grade point average of 2.0 (‘C’) or better for all credits completed.
3. Completion (with a final grade of at least ‘D’ of each of the following courses: Contracts, Property, Civil Procedure, Criminal Law, Torts, Constitutional Law I, and Professional Responsibility. Additionally, Legal Research and Writing must be completed with a final grade of at least a Low Pass and an upper level writing requirement.
4. Three years in residence must be completed. Students earn years in residence at the rate of .05 residence years for each semester credit completed. A student may not earn more than one-half year in residence for a fall or winter term in which ten or more credits are completed, and not more than one-quarter year in residence for a summer term in which five or more credits are completed.
5. The final year of study must be completed in residence at the Wayne State University Law School.
6. Students who enter as full-time students must complete the degree requirements within five years of the date they enter. Students who enter as part-time students must complete the degree requirements within six years of the date they enter.

Academic Regulations
The faculty of the Law School has adopted academic regulations which cover degree requirements, examinations, and other academic matters. Compliance with the regulations is required of all law students. The academic regulations are available in the Law School Records Office and on our Website.

SPECIAL CURRICULAR PROGRAMS

Internships
Upperclass students have the opportunity to earn academic credit while interning on a part-time basis for distinguished judges or a variety of governmental and non-profit agencies in the Detroit area. With the consent of both the dean and the faculty, students may also arrange for special public interest internships outside the Detroit metropolitan area. The internship program provides a unique opportunity for students to gain practical experience while concurrently pursuing their classroom studies.

Intellectual Property Law Institute (IPLI)
The ILPI was created in 1987 by the State Bar of Michigan and the law faculties of Wayne State University, the University of Detroit Mercy, and the University of Windsor, Ontario. The ILPI offers an exceptional, rich curriculum for law students and lawyers, comprised
of courses and seminars in intellectual property law in patent, copyright, trademark, computer and related technology, communications media, and entertainment law. Law students who enroll in IPLI courses pay tuition to their home institution, and credit for courses taken at other institutions is transferred to the home institution.

International Programs
The Law School offers many courses in the area of international law. It also sponsors several international study and exchange programs: The Freeman Fellowship, for study at the Hague Academy of International Law (Netherlands); Wayne State University—Utrecht (Netherlands) law faculty and student exchange program; and the Wayne State University Law School—University of Warwick (England) Law School student exchange program.

Center for Legal Studies
The Center for Legal Studies seeks to foster the development of a community of scholars in several disciplines who are devoted to interdisciplinary legal scholarship, and to provide opportunities for undergraduate, graduate, and Law School students to engage in the interdisciplinary study of law and law-related subjects.

COMBINED LAW AND GRADUATE STUDY
Law School students may pursue a master's degree in a field other than law concurrently with their legal education. Upon completion of their first year of law study, students may apply to the Law School for permission to take a combined degree program and to the appropriate school or college of the University for admission as a master's candidate. If admitted, students may divide their time between the Law School and the concurrent program of study, devoting sufficient time to each to meet the academic and residence requirements of both schools. This program will require a minimum of four years of study at the University.

Students who are not interested in a master's degree, but who are interested in taking graduate level courses related to their legal training in other schools and colleges of the University may receive credit toward their law degree for the satisfactory completion of such work. The student must first secure the approval of the Dean to register for such courses. For detailed information on graduate courses and programs in the University, consult the other school and college sections of this bulletin.

Combined Degree Programs: The Law School offers the following joint degree programs: J.D./M.A., Economics; J.D./M.A., History; J.D./M.A., Political Science; J.D./M.A.D.R.; and J.D./M.B.A. See the respective departmental sections in the College of Liberal Arts section and the School of Business Administration section of this bulletin for further details.

Bar Examinations
Students who contemplate practicing law in states other than Michigan should consult Bar examiners of those states at the earliest opportunity with reference to the requirements of such states. In several states, prospective candidates are required to notify the Bar examiners at the beginning of their law study of their intention of taking the examination upon graduation.

Information regarding the Michigan Bar examination can be obtained by writing to The State Bar of Michigan Committee on Character and Fitness, 306 Townsend, Lansing, MI 48933-2083.

Although the curriculum of the School is not primarily designed for preparing students to pass the various state bar examinations, substantially all of the subject matter of the examinations is covered adequately in the regular courses. However, the objective of the School is the development of an understanding of the theory of the law, its application, and the techniques of practice — in other words, to prepare a student for the practice of law.

ADMISSION POLICIES and PROCEDURES

Preparation for Law Study
The Law School has no requirements with respect to the content of pre-legal education, but its Admissions Committee will take into account the nature of college work completed as well as the grades achieved. Proficiency in the English language, both written and spoken, and in analytical skills is essential to the study of law.

The suggestions for prelaw preparation in the Official Guide to U.S. Law Schools, published by the Law School Admission Council, are excellent. This guide contains material on the legal profession and the study of law, and information on each American Bar Association (ABA) accredited law school. It may be ordered from the Law School Admission Services, and is available in most bookstores and libraries. Prospective students are welcome to come into the Law School Admissions Office, during the regular office hours, to look at the Official Guide and other law school reference materials.

Admission Policy
An applicant for admission to the Wayne State University Law School J.D. program must have a bachelor's degree from a regionally accredited college or university. (Prior to registration, each admitted student must arrange for the Law School to receive an official transcript from the degree-granting institution, evidencing the grant of the degree.) Each applicant must also take the Law School Admission Test (LSAT) and register with the Law School Data Assembly Service (LSDAS).

It is the goal of the Law School's Admissions Committee to ensure that the entering class is composed of the most highly qualified applicants. The Committee believes that, initially, the educational process during law school and the legal profession are best served by an admissions process that results in the selection of a diverse and talented student body.

The Committee considers the following factors in reaching admissions decisions: (1) the applicant's academic achievement and potential, as shown by the LSAT score and undergraduate grade point average; (2) any special features of the applicant's academic record which may have had an impact on his or her grade point average such as the age of the undergraduate grades or any marked improvement in grades shown in the later years of college; (3) other relevant personal qualities and characteristics of significance such as cultural/ethnic background, socio/economic and educational disadvantage, work and volunteer experience, leadership qualities, commitment to community service and communication skills. Applicants are urged to discuss these factors in their personal statement which is required as part of the application process. An individual writing a letter of recommendation for an applicant should address such factors also.

Admissions Decisions: Applicants with high index scores are administratively admitted and applicants with very low scores may be administratively denied admission. Applicants who are neither administratively admitted nor denied are placed in the discretionary pool. The Admissions Committee reviews applications from the discretionary pool and decides whether to admit, deny, or wait list. Although a rolling admissions process is generally employed, discretionary admit decisions are the most difficult and usually are made later in the admission year. The Admissions Committee is composed of Law School faculty members assisted by administrative staff. The administrative staff provides information, recommendations and other assistance to the faculty members who vote on the individual applications.
Reconsideration: An applicant may request reconsideration of an adverse admission decision by writing a letter to the Assistant Dean for Recruitment and Admissions stating the specific reasons why reconsideration is thought to be merited. The application will be then reviewed and reconsidered by the Admissions Committee. In the past, applicants who have successfully petitioned for reconsideration are those who have submitted updated information such as new test scores or additional grades.

Deferred Admission: The Law School does not defer admissions. An admittee who withdraws from the class must submit a new application and fee for the subsequent year for which he or she seeks admission.

Reduced Program: The first-year day program curriculum is mandatory, but day students who have child care responsibilities or significant health care concerns may be permitted to take a slightly reduced course load. The applicant must submit a written request prior to registration to the Assistant Dean for Recruitment and Admissions setting forth the personal circumstances justifying the request for admission as a reduced-load student.

Visit to the Law School: Prospective applicants are encouraged to visit and tour the Law School and University campus, attend a first-year class, participate in informal discussions with students about law school, and consult with a member of the Admissions Office staff about admission policies, procedures and other concerns.

Transfer Student
A transfer applicant must have completed all of the first-year day or evening courses required by his or her ABA-accredited law school. Applicants must have superior law school academic credentials to be offered admission. Transfer students are admitted to the fall term only. The application deadline for transfer applicants is July 1.

A transfer applicant’s file will be ready for consideration when the Admissions Office has received all of the following: (1) The Law School Application for Admission; (2) An official transcript sent directly from the applicant’s law school including the final grades recorded for all law school courses completed (a photocopy will not be accepted); (3) A letter of good standing from the dean of the applicant’s law school; (4) A copy of the applicant’s LSDAS Report; (5) An official transcript sent directly from the applicant’s degree-granting undergraduate school.

Application Procedure
There is a great deal of competition for the entering class of the Law School. The Law School received more than 1200 applications for the 2002-2003 academic year, and fewer than one-third of the applicants were offered admission. The median undergraduate grade point average of the 2002-2003 entering class was 3.36 and the median LSAT score was 153. Applicants for admission to the first-year class are admitted to the fall term only.

Application Instructions for Admission to the First-Year Class:
Applications for admission are accepted October 1 through March 15. Applicants are encouraged to apply early, as the Law School has a rolling admissions process.

The applicant’s file will be ready for consideration when the Admissions Office has received the following:

(1) The Law School Application for Admission signed and dated by the applicant, with all required information on the application.

(2) The non-refundable application fee, submitted with the application, of $30 for U.S. citizens or permanent residents, and $50 for non-U.S. citizens. Checks or money orders should be made payable to Wayne State University. Checks drawn on Canadian or other foreign banks should carry the notation ‘Payable in U.S. Funds Plus Service Charge.’ Applicants should not send cash.

(3) A brief personal statement designed to call the attention of the Admissions Committee to any experiences, interests, unusual circumstences, or any other information which the applicant believes would help the Committee evaluate his or her potential for success at the Law School. The Law School does not grant requests for personal interviews, so it is important for the applicant to include any special circumstances in his or her personal statement.

(4) The LSDAS Report, sent by LSDAS, which will include the applicant’s LSAT score(s), copies of transcripts from all of the U.S. undergraduate schools the applicant has attended, and an analysis and summary of the transcripts. (The applicant must direct each U.S. undergraduate school attended to send a transcript to LSDAS. If the applicant’s transcripts are not sent directly to LSDAS, LSDAS will not complete its report and the application will be incomplete.)

An applicant with a degree from an educational institution outside the United States must also submit a notarized copy of the undergraduate transcript, translated into English. An applicant who earned his or her bachelor’s or equivalent degree from a college or university outside the United States, Canada or Puerto Rico, may not be eligible to subscribe to LSDAS and should refer to the Law Services Information Book or contact LSDAS for advice.

(5) A letter of recommendation from an individual, such as a college professor or department chairperson, who can comment on the applicant’s intellectual abilities and academic performance. An applicant who has been out of school for a number of years may substitute a letter of recommendation from an employer. Letters of recommendation should be sent directly to Law Services by the recommender. Only one letter of recommendation is required, but the Admissions Office will review up to two letters.

Guest Student
Fall and/or Winter Term(s): The transfer applicant requirements and procedures outlined above apply to a law student who wishes to enroll at the Wayne State University Law School for one or two terms as a guest student and who intends to transfer credit back to his or her ‘home’ law school. In the case of a guest student, the letter of good standing should also include a statement granting permission for the applicant to attend the Wayne State University Law School for the semester(s) indicated, and agreement to transfer credits earned at the Law School, and any other requirements or limitations.

Summer Term: A student from another ABA-accredited law school may take one or two summer courses at the Wayne State University Law School, provided the student is in good standing and receives permission from his or her ‘home’ law school. Application should be made on the Law School Summer Guest Application available from the Admissions Office.

LAW SCHOOL DIRECTORY
Admission — J.D. Program: 577-3937
Financial Aid: 577-5142
Records and Registration, Law School: 577-3978
Academic Services: 577-3993
Web: Please visit our website at: http://www.law.wayne.edu

Letters should be addressed to the appropriate department and building at Wayne State University, Detroit, Michigan 48202. The telephone area code is 313.
COLLEGE OF LIBERAL ARTS

DEAN: Lawrence A. Scaff
Foreword

The College of Liberal Arts conducts instruction and research in a wide variety of disciplines and serves the academic interests of a diverse student population. Courses and degree programs are offered in social sciences, humanistic studies, and foreign languages.

The bachelor’s degree programs provide instruction in the basic areas of learning and offer opportunity to focus on fields of special interest. All programs emphasize communication, both written and spoken, and the use of precise and thoughtful language. Students are stimulated to think and read critically and to become familiar with the tools of research so that learning may be a lifelong process. Intellectual growth is encouraged by developing in students the necessary independence, resourcefulness and judgment in early studies so that advanced courses may be selected with confidence.

Most fields of study in the College offer students both theoretical and practical training. In fields of special interest, a solid knowledge of underlying principles may thus be strengthened by practical training and experience.

The College of Liberal Arts also serves students whose academic interests extend over several departments. Interdisciplinary programs such as American Studies, Linguistics, Religious Studies, and Women’s Studies offer varied individualized curricula.

The undergraduate programs of the College of Liberal Arts are strengthened by the graduate programs which lead to the master’s and doctor’s degrees in various disciplines. Professors in the College teach both graduates and undergraduates; research projects may involve both graduates and undergraduates; some specialized classes are available to both graduate students and those undergraduates enrolled in the upper division. This opportunity for association with graduate students and research personnel enriches the experience of many undergraduate students.

In the College of Liberal Arts, students are provided with the skills, knowledge, and understanding on which to build professional and personal development in today’s rapidly changing world.

DEGREE PROGRAMS

BACHELOR OF APPLIED STUDIES with a major in Sociology

BACHELOR OF ARTS with majors in:
- Africana Studies, American Studies, Anthropology, Art History, Classics, Economics, English, Film Studies, French Studies, Geography, German, History, Italian, Linguistics, Near Eastern Languages, Near Eastern Studies, Philosophy, Political Science, Russian, Slavic Languages, Sociology, Spanish

BACHELOR OF ARTS HONORS with majors in:
- Anthropology Honors, Classics Honors, Economics Honors, English Honors, French Studies Honors, Geography Honors, German Honors, History Honors, Italian Honors, Near Eastern Languages Honors, Near Eastern Studies Honors, Philosophy Honors, Political Science Honors, Russian Honors, Slavic Honors, Sociology Honors, Spanish Honors

SPECIAL BACHELOR’S DEGREES in
- Criminal Justice (Bachelor of Science in Criminal Justice)
- Public Affairs (Bachelor of Public Affairs)

SPECIAL BACHELOR’S HONORS DEGREES
- Bachelor of Science in Criminal Justice Honors
- Bachelor of Public Affairs Honors

*MASTER OF ARTS with majors in
- Anthropology, Art History, Classics, Comparative Literature, East European Studies, Economics, English, French, German, History, Italian, Linguistics, Near Eastern Languages, Philosophy, Political Science, Sociology, Spanish

*MASTER OF PUBLIC ADMINISTRATION with majors in
- Criminal Justice, Public Administration

*MASTER OF SCIENCE with a major in Criminal Justice

*DOCTOR OF PHILOSOPHY with majors in
- Anthropology, Economics, English, History, Modern Languages, Philosophy, Political Science, Sociology

* For specific requirements, see the Wayne State University Graduate Bulletin.
BACHELOR’S DEGREE REQUIREMENTS

Credits
Candidates for the degrees Bachelor of Arts, Bachelor of Applied Studies, or any Special Degree must complete at least 120 credits. Certain curricula may require additional credits above this minimum. (See ‘Restrictions on Credit,’ below.) At least fifteen credits must be earned in courses numbered 3000 or above.

Grade Point Average: All students are required to maintain an overall grade point average of “C” (2.0) for all degree work elected. See ‘Grade Point Average,’ page 43.

GENERAL EDUCATION REQUIREMENTS
University-wide general education requirements and College-wide group requirements are designed to enhance students’ basic skills and to promote intellectual breadth. These requirements assure minimal competence in those skills needed to succeed in college and professional life and provide a selective introduction to the increasingly broad range of academic disciplines represented at the University. They serve to emphasize the fundamental means and essential knowledge required for continuing self-education and intellectual growth.

As of Fall, 1991, all entering undergraduate students must satisfy both University General Education Requirements (see page 23) and College of Liberal Arts Group Requirements (see below). Students who first enrolled prior to Fall 1991 should consult with their advisers regarding University General Education Requirements and College Group Requirements. While these two sets of requirements substantially overlap and complement each other, College Group Requirements, in several respects, supplement and modify the University program by requiring additional course work or restricting the use of certain specific courses.

Competency Requirements
The College of Liberal Arts requires the establishment of the same academic skills competencies as are set forth in the University General Education Program (see page 23).

Group Requirements
Group Requirements for students in the College of Liberal Arts overlap considerably with those of the University General Education Program (see page 25). However, they are not identical, and students must make sure that their course elections satisfy both sets of requirements.

In order to achieve breadth of educational experience, both the University and the College enforce the policy that no two courses offered in satisfaction of the Group Requirements may be chosen from within the same Subject Area code.

The following are statements of important differences between the University General Education Program and the College Group Requirements.

1) The College requires three courses in the natural sciences - one more than is required by the University.
2) The College requires two courses in the social sciences (SS) one more than is required by the University.
3) The College requires an additional course in the humanities under the heading of Civilizations and Societies (see below).
4) The College requires three courses in a foreign language. Foreign language competency is not a part of the University General Education Requirements.

In each category the Group Requirement must be satisfied by election from an approved list of courses. Courses not on the lists will not be accepted as fulfilling the requirement. The basic list for University General Education courses may be found on page 25. The following list of Group Requirements cite only exceptions to the University lists. Since changes may occur after the publication of this Bulletin, please consult the University Advising Center for the up-to-date list of approved courses.

**AMERICAN SOCIETY AND INSTITUTIONS (AI):** The College list is the same as the University list, except that the College list does not include ISP 3420 and ISS 1510. One course is required.

**FOREIGN CULTURE (FC):** Students must satisfy the University General Education Requirement in Foreign Culture by successfully completing a three course sequence (through 2010 or 2110) in a single foreign language.

**FOREIGN LANGUAGE:** All students in the College of Liberal Arts must successfully demonstrate language proficiency equivalent to the three-course basic sequence in a single foreign language. Proficiency is proven by completing courses numbered 1010 (or 1100 and 1110), 1020, and 2010 in one of the following subject area codes: ARB, ARM, CHI, FRE, GER, GRK, HEB, ITA, JPN, LAT, POL, RUS, SPA, SWA, and UKR; as well as GRK 1110, 1120, and 2110. Those students continuing in the study of a foreign language begun in high school or at another college will be placed at the appropriate level in the sequence, as determined by means of qualifying examinations or interviews administered by the various language departments of the University. Students must complete the sequence to demonstrate proficiency. The College Foreign Language Group Requirement will be considered satisfied by those students whose test scores place them beyond the intermediate (third course) level.

**Bilingual Students:** The College Foreign Language Group Requirement will be considered satisfied for students who were born in and completed their secondary education in a country whose language is not English. However, no credit (through course work or by examination) will be granted for elementary or intermediate level courses in that language. Bilingual students who satisfy the Foreign Language Group Requirement in this manner will simultaneously fulfill the University General Education Requirement in Foreign Culture.

**HISTORICAL STUDIES (HS):** The College list is the same as the University list, except that the College list does not include ISP 3160. One course is required.

**LIFE SCIENCE (LS):** The College of Liberal Arts requires one course from the following shortened list to satisfy its Group Requirement in Life Sciences: ANT 2110; BIO 1030, 1050, 1510; HON 4220; NFS 2030; PSY 1010, 1020.

**PHILOSOPHY AND LETTERS:** The College list is the same as the University list, except that the College list does not include I H 2710. One course is required.

**PHYSICAL SCIENCE (PS):** The College of Liberal Arts requires one course from the following shortened list to satisfy its Group Requirement in Physical Science: CHM 1000, 1020, 1220, 1225, 1410; HON 4230; PHY 1020, 1040, 1070, 2130, 2170, 3100.

**THIRD COURSE IN NATURAL SCIENCE (LS, PS):** A third course in the Natural Science area is required. It cannot be chosen from the same department as either of the other two courses with which the student fulfills the Physical Science or Life Science requirement. All courses on the University list for Life Science or Physical Science are acceptable except IST 2310 and 2420. Also, students may elect NFS 2210 as the third course in Natural Science (a course which is not on the University General Education list).

**SOCIAL SCIENCE (SS):** The College list is the same as the University list, except that the College list does not include ISP 3480 and ISS 2710. Two courses (taken from different departments) are required.

**VISUAL AND PERFORMING ARTS (VP):** The College list is the same as the University list, except that the College list does not include I H 2730. One course is required.

**CIVILIZATIONS AND SOCIETIES:**

This College Group Requirement is not part of the University General Education Requirements. Students must complete one course from the following (cross listed versions of these course are indicated in parentheses): AFS 2010; A S 2010; ARM (or GER, POL, RUS, SLA, UKR) 3410, ARM (or POL, RUS, SLA, UKR) 3710; CBS 2100 (SPA 2400), 2110 (SPA 2500); CLA 2000; ENG 2600, 3600; FRE 2710, 2720; GER 2710, 2720; GRK 3710; ITA 2710, 2720; N E 2000, 2010; POL 2710; RUS 3510.

Note: The Junior Year in Germany experience also meets the Civilizations and Societies requirement.

**UGE 1000, (GE) Information Power, as specified in the University General Education Program (see page 27).**

**UNIVERSITY REQUIREMENT IN AMERICAN GOVERNMENT for students enrolled prior to Fall Term 1987: See General University Information, page 27.**

**Curriculum Requirements**

A curriculum usually designates a general area of interest or eventual professional choice. By choosing the General Curriculum, students indicate only an intention to take a degree in one of the departments of the College or that their final academic goal has not as yet been determined. Since educational interests may change during a college career, curricula may be altered at any time by consulting an academic adviser.

Some curricula outline specific programs of study. Others are governed only by the group requirements, future major requirements, and recommendations. Group, curricular, and major requirements may be modified from time to time during a student’s course of study, and students should periodically consult with appropriate advisers. Descriptions of the various curricula will be found in the Undergraduate Curricula section below; see page 228.

**Major Requirements**

A major is a program of concentrated study in a department or area (often a program) within the College. Specific course requirements for majors are listed in this bulletin under each of the departments or areas of the College. Students may declare majors at any time but generally select areas of concentration during their sophomore year and formally declare majors by the beginning of their junior year. Students must complete all courses in their majors with an overall average of ‘C’ (2.0).

**Declaration of Major:** To declare a major, students should consult a departmental adviser well in advance of making a formal declaration, since the acceptance of a declared major is subject to the advice and consent of the department concerned. Declaration of Major forms are available in the University Advising Center, 1600 Adamany Library. A 2.00 cumulative g.p.a. is required to declare a major. At the time of formal declaration, the student must present to the department a current transcript and a Degree Audit from University Advising, obtain the signature of the department chairperson or designated representative on the Declaration form, and file it in the Liberal Arts Major and Curriculum Office, 2226 Faculty/Administration Building. All courses elected or changed by the student after the declaration of a major should be approved by the department adviser.
The major must include at least twenty credits in one subject, exclusive of introductory courses and inclusive of some advanced work. No more than forty-six credits in the major subject (including introductory courses) may be counted toward a degree.

Within the above limits, each major program has specific requirements which may be modified from time to time; it is, therefore, each student’s responsibility to keep informed of the current requirements in his/her major department.

For interdepartmental or field majors, the rule regarding minimum credits required in one subject is waived.

For majors which require intensive study in a particular subject, more than forty-six credits are allowed.

The major completed is part of the degree designation on the diploma.

**Double Major:** Students wishing to declare double majors must obtain approval from the chairpersons or delegated representatives of each department or intended major program. For students to graduate with double majors, the major requirements in both areas of concentration must be fulfilled. Students must complete all courses in both majors with an over-all grade point average of “C” (2.0). Both majors are designated on the diploma.

Students enrolled in colleges and schools other than the College of Liberal Arts and who wish to graduate with a double major, one component of which is in a Liberal Arts curriculum, must satisfy all College of Liberal Arts Group Requirements, as well as the major requirements of the department involved. (See also ‘Combined Degrees,’ and ‘Concurrent Degrees,’ below.)

**Minor Fields**

The College of Liberal Arts offers the option of a minor. Students may choose to fulfill a minor but are not required to do so. In general, minors require eighteen to twenty-one credits. Courses which bear limitations prohibiting their election for major credit may not be elected for minor credit.

Students enrolled in colleges and schools other than the College of Liberal Arts and who wish to declare a minor in a Liberal Arts curriculum, may do so by satisfying the minor requirements of the curriculum involved. They need not satisfy the Group Requirements of the College of Liberal Arts.

Students are strongly encouraged to consult with departmental advisors for course selections. The notation of the minor will appear on the transcript but not on the diploma. Declaration of the minor will be made by the student only when filing for graduation.

**Curricula and Co-Majors**

*Taken in conjunction with another major which leads to a Bachelor’s Degree*

International Studies; Peace and Conflict Studies; Urban Studies; Women’s Studies

**Combined Degrees and Second Degrees**

A Combined Degree (B.A.) is granted by the College of Liberal Arts in cooperation with approved schools of Dentistry, Medicine, and Law, which do not require a bachelor’s degree for admission. Candidates for Combined Degrees must complete ninety credits in the College of Liberal Arts, all University requirements, all College requirements, make reasonable progress (as determined by the major department) toward completing a major, and complete satisfactorily the first year’s work in an approved professional school. Students who fail to pass any course ordinarily required during the first year of professional work forfeit the right to a Combined Degree. Such cases may be reopened only after the student completes the second year of professional work.

Students who have received a Liberal Arts degree from Wayne State University or any other accredited institution may obtain a second bachelor’s degree in another academic area by registering in the appropriate undergraduate College. Graduates of Wayne State University who have earned degrees from the College of Liberal Arts may be ranked as undergraduates by declaring new majors and indicating a desire to earn a second undergraduate degree. Graduates of other Wayne State University schools or colleges must transfer to the College of Liberal Arts. A student from another institution must be admitted to the College by the University Admissions Office.

In order to be granted second degrees, students must complete a minimum of thirty credits beyond the first degree in the College and satisfy all College, and major requirements. Generally, no second degree will be granted in the academic area in which the first degree was earned.

**Concurrent Degrees and Double Majors**

Students who have satisfied all requirements for two different major programs leading to degrees offered by the College and who have accumulated 150 or more degree credits may apply for both degrees simultaneously. However, students intending to earn concurrent degrees are required to obtain permission from the Office of the Dean prior to the accumulation of 120 degree credits. A more usual procedure for students satisfying the requirements of two different major programs is to declare a double major and graduate with one degree, in which case as few as 120 degree credits may be required. (See also ‘Major Requirements,’ and ‘Combined Degrees,’ above.)

**Restrictions on Credit**

**Repeated Subjects:** Degree credit will not be granted for course work in which credit has already been granted. (Students who wish to repeat a course in which they did not receive credit originally must file a repeat form at the time of registration.) Similar courses may have different names dependent upon the college and the semester in which a course is offered. Students are advised not to offer repeated work as credit toward a degree.

**Maximum Credits in One Subject:** Students may not count toward a degree more than forty-six credits in any one subject except for special curricula which specify additional courses in the curriculum outline.

**Over-Age Credits:** Students attempting to complete majors after a protracted interruption in their education, or those attending the University on a part-time basis over an extended period of time, may find that some early course work is outdated. In such cases, a department may require refresher work or a demonstration that the student is prepared for advanced courses in the department.

**Restrictions on Transfer Credit:** — Two-Year Colleges: No more than sixty-four semester credits may be applied toward graduation from two-year colleges.

— Labor School: A maximum of ten hours of elective credit may be granted students who have been certified as having completed the Labor School curriculum, have a letter of recommendation from the Director, and have earned sixty credits with a grade point average of at least 2.0.

**Restricted Courses:** Degree credit for restricted courses is given only within the approved limits specified below.

**Professional Courses:** Students may elect a maximum of sixteen credits as cognate work from elected courses offered for degree credit by the several professional schools and colleges within the University. Eight of these credits may be elected with the approval of an academic adviser prior to the declaration of a major, and eight additional credits may be chosen with the approval of the major department. Where academic advisers have approved fewer than eight credits, the major department may approve credit up to the six-
ten maximum credits allowed. In curricula which specifically require professional courses in excess of the maximum, additional credits may be elected.

Specialized Courses: Unless a curriculum specifies otherwise, the maximum amount of degree credit which may be earned in certain specialized areas is limited as follows:

- **Dance** (approved courses) — 16 credits maximum
- **Health** — 8 credits maximum
- **Applied Music** (including the limitation stated in the paragraph below) — 16 credits maximum
- **Physical Education** (activity) — 4 credits maximum

A total of no more than four credits from the following list of courses may be counted toward a degree unless a curriculum specifically requires more extensive elections:

- MUA 2800 — University Bands: Cr. 1
- MUA 2810 — University Symphony Orchestra: Cr. 1
- MUA 2820 — Jazz Lab Band: Cr. 1
- MUA 2830 — Men’s Glee Club: Cr. 1
- MUA 2840 — Choral Union: Cr. 1
- MUA 2850 — Concert Chorale: Cr. 1
- MUA 2870 — Women’s Chorale: Cr. 1
- MUA 2880 — Chamber Music and Special Ensembles: Cr. 1
- COM 2240 — Forensics Practicum: Cr. 1-3

Combined Degrees: Courses taken in the first year of professional school may be applied toward the required fifteen credits in advanced courses.

Residence

To qualify for a baccalaureate degree in the College of Liberal Arts, a minimum of thirty credits must be earned in the College. The last thirty credits applicable to the degree, not including credit by special examination, must be completed in an undergraduate college or school of Wayne State University. Credit by special examination may not be counted as residence credit, but such credit, if earned during a semester in which the student is registered, will not be considered an interruption of residence.

In special circumstances, senior residence may be interrupted with the approval of the student's major department and the Educational Adjustment Committee; however, when the candidate has fewer than the minimum thirty credits of residence in the College of Liberal Arts, no such exceptions are permitted.

For the Combined Degree, the residence requirement must be completed in the College of Liberal Arts at Wayne State University prior to admission to the professional school.

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**ACADEMIC REGULATIONS**

For complete information regarding academic rules and regulations of the University, students should consult the General Information Section of this bulletin, beginning on page 15. The following additions and amendments apply to the College of Liberal Arts.

Attendance

Regularity in attendance and performance is necessary for success in college work. Attendance requirements will be announced by instructors at the beginning of each course.

Normal Program Load

The requirements for graduation are based upon an average program of fifteen credits per semester for eight semesters. A normal load should not exceed eighteen credits.

Because two hours of outside preparation are normally expected for each class hour, a fifteen credit program calls for approximately forty-five hours of class attendance and study per week. Students who undertake such a program should expect to give it their full time and energy. A few hours of employment a week may be safely added by capable students.

Extra Credits

Extra credits are credits taken in excess of the normal load of eighteen credits. Students with 3.0 (or above) grade point averages may take more than eighteen credits when their proposed programs carry the written approval of the adviser and the Dean.

Retention of Records

Term papers and examinations shall either be returned to students or retained by the instructor for a minimum of six months. Thereafter they may be destroyed. Instructors shall retain grade books for at least five years following the end of a term, and instructors who leave the institution shall give grade books for courses conducted during the past five years to their department chairperson. Five years after the end of a course, grade books may be returned to the instructor or destroyed by the department.

Honors Program

Students in the College are eligible to take honors courses if they have a cumulative grade point average of 3.0 or above. For a description of the Honors Program and a list of classes, see page 274.

‘AGRADE’ — Accelerated Graduate Enrollment

Some departments of the College permit academically superior majors to petition for admission into the College’s ‘AGRADE’ program. ‘AGRADE’ procedures enable qualified seniors in the College of Liberal Arts to enroll simultaneously in the undergraduate and graduate programs of the College and apply a maximum of fifteen credits towards both a bachelor’s and master’s degree in the major field. Students electing ‘AGRADE’ programs may expect to complete the bachelor’s and master’s degrees in five years of full-time study.

An ‘AGRADE’ applicant may petition the Graduate Committee of the major department for acceptance into the program no earlier than the semester in which ninety credits are completed. Applicants must have an overall grade point average at the ‘Cum Laude’ level (approximately 3.4) and not less than a 3.6 grade point average in
the major courses already completed. If the student’s petition is accepted, the student’s faculty adviser shall develop a graduate Plan of Work, specifying the ‘AGRADE’ courses to be included in subsequent semesters.

For more details about the ‘AGRADE’ program, contact the chairperson of the major department, or the Graduate Office of the College of Liberal Arts (577-3117).

Phi Beta Kappa

Phi Beta Kappa, the nation’s oldest honor society, was founded at the College of William and Mary in Virginia on December 5, 1776. The one hundred and fifty-sixth chapter of the society, Gamma of Michigan, was installed at Wayne State University on January 16, 1953 under a charter granted to the College of Liberal Arts by the United Chapters of Phi Beta Kappa. Membership in the chapter is restricted to its charter members and to those members of the junior and senior classes of the College of Liberal Arts who have been elected to membership by the chapter and who have formally accepted election and participated in initiation ceremonies of this or some other cooperating chapter. In addition, all members of the University staff who have been elected to membership by other chapters of Phi Beta Kappa automatically become affiliated members of the local chapter for the duration of their stay at the University.

Election to membership is restricted to students with at least two academic years of residence in the College of Liberal Arts, and is based not only on high scholarship and integrity, but also on breadth and depth of program. Students who wish further information are urged to consult with the secretary of the chapter concerning requirements for membership.

Graduation with Academic Distinction

Candidates eligible for the bachelor’s degree may receive a special citation placed on their diplomas under the following circumstances: The designations of Summa Cum Laude, Magna Cum Laude, and Cum Laude will be conferred upon graduating students whose cumulative grade point averages at Wayne State University fall within approximately the upper five per cent, the next five per cent, and the next ten per cent of the senior class, respectively. The grade points used to identify the lower limits for each designation will be based upon the grade points attained by seniors at these percentile levels during the preceding academic year. Only students who have earned sixty or more credits at Wayne State University are eligible to graduate with one of the above distinction citations.

Dean’s List

The Dean’s List of academically superior students is compiled each fall and winter term based on the following criteria: a 3.6 grade point average for students registered for full-time programs of twelve credits or more which contribute to the grade point base; a 4.0 grade point average for students registered for between six and eleven credits. Students who receive marks of ‘I’ or ‘W’ or ‘X’ and grades of ‘N’ or ‘U’ are not eligible. (For explanation of these marks and grades, see page 42.)

Academic Probation

Low Grade Point Average: If a student’s work averages below 2.0, the student will be placed on academic probation. The student will be required to obtain permission from the University Advising Center before registering. Such permission will be granted only after an interview during which the student and adviser identify previous causes of failure and formulate a plan for future academic success.

Registration: A student on academic probation must have a ‘hold’ released each term before he or she registers. To obtain this release, the student must see an academic adviser in the University Advising Center. This hold will not be released after the last day of the final registration for the term for which the student plans to register. The hold cannot be released at the advising station in the Student Center during final registration.

Restriction: While on academic probation, a student may not represent the College in student activities.

Removal of Academic Probation: Academic probation will be removed at the end of any term in which the student achieves an over-all average of ‘C’ (2.0) or better for all degree work taken at the University.

Exclusion

Low Grade Point Average: Students on academic probation shall be given two subsequent terms for enrollment on probationary status. At the conclusion of the two terms, a student who has not achieved a cumulative g.p.a. of at least 2.0 shall be excluded from the University. A student excluded from the University may not apply for reinstatement for one calendar year. Such an exclusion will be reviewed by the Probation Committee and the Dean upon the request of the student.

Reinstatement: After one year of exclusion, the student may apply for reinstatement in the College. The decision to reinstate will be based upon evidence presented by the student that circumstances have changed during the year and that the probability of success has increased. The reinstatement application must be returned to the University Advising Center at least two weeks prior to the first day of any registration period.

Cheating and Plagiarism: The principle of honesty is recognized as fundamental to a scholarly community. Students are expected to honor this principle and instructors are expected to take appropriate action when instances of academic dishonesty are discovered. An instructor, on discovering such an instance, may give a failing grade on the assignment or for the course. The instructor has the responsibility of notifying the student of the alleged violation and the action being taken. Both the student and the instructor are entitled to academic due process in all such cases. Acts of dishonesty may lead to suspension or exclusion. Information on procedures is available in the Office of the Dean.

Academic Advising

Freshmen and sophomores are required to consult departmental advisers each time they register. A staff of academic advisers is available in the University Advising Center, 1600 Adamany Library, to answer general academic questions. Students should confer with advisers on all questions concerning degree requirements, academic regulations, course elections, and programs of study. It is of primary importance that students talk with an adviser when they are having difficulties in their academic work. Students may choose either to see a specific adviser or any available adviser. First-year and sophomore students in some of the special curricula are required to consult departmental advisers or advisers in other colleges.

Juniors and seniors are assigned to advisers in their major departments, and their course elections in the last two years are arranged in consultation with these departmental advisers.

Scholarships and Financial Aid

See Office of Scholarships and Financial Aid (page 20), and individual departmental sections below. The following scholarships are open to all liberal arts students:

Liberal Arts Scholarship and Award: Awards of varying amounts available to currently-enrolled liberal arts majors with a minimum 2.0 g.p.a. Contact the Dean’s Office.

Perry Feigenson Scholarship Fund: Awarded to any full-time undergraduate major in liberal arts who demonstrates financial need and maintains a minimum 3.0 g.p.a. Application deadline is April 30; contact the Office of Scholarships and Financial Aid.
Students are encouraged to request a curriculum guide for any of the following programs and to consult with an academic adviser in the University Advising Center. For programs that conclude in the College of Liberal Arts, students must declare a major not later than the beginning of their junior year.

GENERAL CURRICULUM

The General Curriculum leads to the degree of Bachelor of Arts or one of several special bachelor’s degrees. Although it is designed for students who plan to enter a major in a department or area which does not require a special curriculum, it is an ideal choice for entering students who have not yet decided on a plan of study.

In this curriculum, a wide choice of courses is permitted. The elections suggested below for the first two years are planned to fulfill the University General Education Requirements and the College Group Requirements, but students may vary these elections arranging a program for each semester of three to fifteen credits. The courses elected during the last two years are arranged in consultation with a major adviser.

Suggested Elections

First Year
American Society and Institutions: Cr. 0-3
Foreign Language: Cr. 4-8
Humanities: Cr. 3-7
Natural Science: Cr. 3-7
Social Science: Cr. 3-7
(GE) Information Power (UGE 1000): Cr. 1
Competencies/Electives: Cr. 0-6

Second Year
American Society and Institutions: Cr. 0-3
Foreign Language: Cr. 4-8
Historical Studies: Cr. 0-4
Humanities: Cr. 3-7
Natural Science: Cr. 3-7
Social Science: Cr. 3-7
Competencies/Electives: Cr. 0-8

PRE-PROFESSIONAL CURRICULA

Admission to pre-professional curricula implies only that students have selected professional goals. It does not necessarily mean that students will be accepted by the corresponding professional school or college.

Pre-Business Administration
— See page 63.

Pre-Dentistry
Satisfactory completion of University General Education Requirements, College Group Requirements, a major field, and the basic sciences listed below lead to the bachelor’s degree and qualify students for consideration by most schools of dentistry.

Biology or Zoology with laboratory: Cr. 12-16
Chemistry: Inorganic, including qualitative analysis, & lab: Cr. 9-11
Chemistry: Organic with laboratory: Cr. 8-10
English: Cr. 8-12
Physics with laboratory: Cr. 8-10
Recommended electives include psychology, sociology, biochemistry, embryology, and statistics. Because different schools of dentistry may require credits in some or all of these subjects, students are advised to become familiar with Admission Requirements of U.S. and Canadian Dental Schools, a brochure which may be ordered from the American Association of Dental Schools, 1625 Massachusetts Avenue N.W., Washington, D.C., 20036.

Pre-Education
— See page 102 and 229.

Pre-Engineering
— See page 129.

Pre-Law
— See page 218.
Since the requirements for admission to law schools vary from school to school, students should become familiar with the requirements of the school they plan to enter.

For admission to Wayne State University’s Law School, applicants should have a bachelor’s degree from an accredited college with a strong grade point average. Although no specific courses are required, the faculty of the Law School recommends a strong background in English, with emphasis on grammar and composition, and in the social sciences. Within these fields, the choice of courses should be made in consultation with an academic adviser in the University Advising Center. The following is a suggested list of courses: Classics 3100; Economics 2010, 2020; four courses in English; History 1050, 2040, 2050, 5160, 5170; Philosophy 1010, 1850; Political Science 1010, 3040, 5110; Psychology 1010; Sociology 2000, 3820. An introductory course in accounting is also recommended. For students interested in the practice of law in commercial, corporate, and tax fields, the business administration curriculum may provide a good background.

Law School Admission Test: Each applicant for admission is required to take the Law School Admission Test given by the Educational Testing Service, Princeton, New Jersey. This test is given five times a year in Detroit and at one hundred or more other examination centers located throughout the country. Application blanks and additional information may be obtained from the Testing and Evaluation Office, 698 Student Center.

Pre-Medicine and Pre-Osteopathic Medicine
Satisfactory completion of University General Education Requirements, College Group Requirements, a major field, and the basic sciences listed below lead to the bachelor’s degree and qualify a student for consideration by most schools of medicine and osteopathic medicine.

Biology or Zoology with laboratory: Cr. 12-16
Inorganic Chemistry (including qualitative analysis) & lab: Cr. 9-11
Organic Chemistry with laboratory: Cr. 8-10
Physics with laboratory: Cr. 8-10
English: Cr. 8-12
Recommended electives include psychology, sociology, biochemistry, embryology, and statistics. Because different schools of medicine may require credits in some or all of these subjects, students are advised to become familiar with Medical School Admission Requirements, a brochure which may be ordered from the Association of American Medical Colleges, 2450 N Street, N.W., Washington, D.C., 20037-1126. The admission requirements of specific schools of osteopathic medicine are available from the American Association of Colleges of Osteopathic Medicine, 6110 Executive Blvd., Suite 405, Rockville, Maryland 20852-3991.
Wayne State University’s School of Medicine encourages students to fulfill degree requirements by selecting courses which will contribute significantly to a broad cultural background and by choosing a major in which one is interested. The Committee on Admissions is influenced by the scholarly approach to education, not by the area in which one concentrates.

**Pre-Clinical Laboratory Science**
— See page 359.

— **Cytotechnology Concentration**
— See page 361.

**Pre-Mortuary Science**
— See page 367.

**Pre-Nursing**
— See page 329.

**Pre-Occupational Therapy**
— See page 372.

**Pre-Optometry**
Satisfactory completion of University General Education Requirements, College Group Requirements, a major field, and the courses listed below lead to the bachelor’s degree and qualify a student for consideration by most schools of optometry. Although some schools will accept students who have completed only two years of undergraduate work, preference is given to those who have earned the bachelor’s degree.

Biology, including microbiology, with laboratory: Cr. 12-16
Inorganic chemistry with laboratory: Cr. 8-10
Algebra and Trigonometry: Cr. 3-4
Calculus: Cr. 6-8
English: Cr. 6-8
Psychology: Cr. 3
Statistics: Cr. 3

Recommended electives include biochemistry and social sciences. Information about specific schools is available from the Association of Schools and Colleges of Optometry, 6220 Executive Blvd., Suite 690, Rockville, Maryland 20852.

**Pre-Pathologist Assistant**
— See page 369.

**Pre-Pharmacy**
— See page 343.

**Pre-Physical Therapy**
— See page 376.

**Pre-Radiation Therapy Technology**
— See page 321.

**Pre-Social Work**
— See page 444.

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**Pre-Veterinary Medicine**
Satisfactory completion of University General Education requirements, College Group Requirements, a major field, and the courses listed below lead to the bachelor’s degree and qualify a student for consideration by the College of Veterinary Medicine at Michigan State University.

- **BIO 1500 --Basic Life Diversity: Cr. 4**
- **BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 4**
- **CHM 1220 -- (PS)Chemical Structure, Bonding & Reactivity: Cr. 4**
- **CHM 1230 --Chemical Principles in the Laboratory: Cr. 1**
- **CHM 1240 -- Principles of General/Organic Chemistry: Cr. 4**
- **CHM 1250 -- General/Organic Chemistry Lab: Cr. 1**
- **CHM 2220 -- Organic Chemistry: Cr. 3**
- **CHM 2230 -- Preparative Organic Chemistry Lab: Cr. 2**
- **CHM 2280 -- Chemical/Analytical Principles: Cr. 3**
- **CHM 2290 -- Chemical/Analytical Principles Laboratory: Cr. 2**
- **CHM 5600 or CHM 6620**
  -- Survey of Biochemistry: Cr. 3
  -- Metabolism: Cr. 3
- **MAT 1800 -- Elementary Functions: Cr. 4**
- **PHY 2130/2131 or PHY 2170/2171**
  -- (PS) General Physics/General Physics Lab: Cr. 4
  -- (PS) General Physics/General Physics Lab: Cr. 5
- **PHY 2140/2141 or PHY 2180/2181**
  -- General Physics/General Physics Lab: Cr. 4
  -- General Physics/General Physics Lab: Cr. 5
- **English (ENG): Cr. 6-8**

Other requirements in social sciences and humanities may be satisfied by meeting the Liberal Arts Group Requirements. Recommended electives include: comparative vertebrate zoology, microbiology, statistics, and psychology.

**TEACHER PREPARATION CURRICULA**
Since most students preparing to teach in one of the fields listed below will register in the College of Liberal Arts for their freshman and sophomore years and transfer to the College of Education at the beginning of their junior year, during the first two years they will see the academic advisers in the University Advising Center for general counseling. Application for entrance to the College of Education should be made after completing fifty-three credits with a minimum 2.5 cumulative grade point average and after having achieved a passing score on the University English Proficiency Examination. Students should also have satisfied the University’s mathematics competency requirement and passed the state Basic Skills Test.

**Combined Curriculum for Secondary Teaching**

*This curriculum leads to a bachelor’s degree and a Michigan Secondary Provisional Certificate.*

The Combined Curriculum for Secondary Teaching is offered in selected majors in cooperation with the College of Education and prepares students for teaching major and minor subjects in the secondary school. In this curriculum, students take the first two years of work in the College of Liberal Arts. Courses in the third and fourth years are taken concurrently in Education and Liberal Arts. In electing courses during the first two years, students should acquire a broad general education while simultaneously electing courses that may be required by their future major department.

Students interested in this program should consult an academic adviser at the University Advising Center who will supply a curriculum outline and provide guidance. Students are encouraged to consult an undergraduate adviser in the department of their respective majors as soon as possible. They may also see the Division of Academic Services, Room 469, College of Education, at any time during
the first two years for consultation on professional programs they may be planning to pursue.

**Degree in the College of Liberal Arts:** Students remain registered in the College of Liberal Arts and elect departmental majors by the beginning of their junior year. Students then apply to the College of Education for official admission to the combined curriculum for secondary teaching and must be approved by the College of Education as candidates for teacher certification. During their junior and senior years, student program requests will be signed by both a College of Liberal Arts major adviser and by the appropriate adviser in the College of Education.

**Degree in the College of Education:** Students apply for admission to the College of Education after completing fifty-three credits in course work, transfer to that College at the beginning of the junior year, and follow the degree requirements of the College of Education.

**K-12 Majors**

- Students wishing to major in Art Education should see an adviser in Room 163, Community Arts Building.
- Students wishing to major in Physical Education should see an adviser in Room 264, Matthaei Building.
- Students wishing to major in Music Education should consult an adviser in Room 105, Schaver Music Building.

**Secondary Teaching**

- See page 106.

Students planning to teach English, foreign language, mathematics, science, social studies or speech on the secondary level should complete in their first two years the following pre-professional course requirements:

- **University General Education Requirements:** see page 23.
- **College of Education general requirements:** PSY 1010, HEA 2310 (or equivalent).
- **English Speech Group:** four courses, including ENG 1020, a 2000-level English course, COM 1010 and an English or speech elective.
- **Social Studies Group:** four courses from anthropology, economics, geography, history, political science, or sociology, including the American Society and Institutions requirement.
- **Science/Psychology Group:** three courses, one from each of the following areas: life science; physical science; and Psychology 1010.
- **Mathematics Competency:** See General Education Requirements, page 24.

Pre-secondary students should also be electing courses in their proposed teaching major and minor. Major/minor worksheets may be obtained from the University Advising Center, or in Room 469 Education Building.

**Career and Technical Education**

- See page 112.

**Elementary Teaching**

- See page 103.

Pre-elementary majors should include the following requirements in their first two years’ work:

- **University General Education Requirements:** see page 23.
- **College of Education general requirements:** PSY 1010, HEA 2310 (or equivalent), and MAT 1110 and 1120.
- **English/Speech Group:** ENG 1020, intermediate composition and COM 1010.

**Social Studies Group:** four courses: PS 1010 or 1030, PSY 1010, GPH 1100 and HIS 2040 or 2050.

**Science Group:** three courses, including at least one course from the life sciences and one course from the physical sciences. One of the three courses must include a laboratory section.

Pre-elementary students should also elect courses in their proposed teaching majors and minors. Major/minor worksheets may be obtained from the University Advising Center, or in Room 469 Education Building.

**Special Education**

- See page 110.

The curriculum in special education prepares teachers for work with the mentally impaired in elementary schools, residential institutions and diagnostic-clinical centers.

In the first two years of work, students should take courses to establish a twenty-four credit minor and complete the following general education requirements:

- **University General Education Requirements:** see page 23.
- **College of Education general requirements:** PSY 1010, HEA 2330, MAT 1110, or MAE 5050.
- **Special Education requirements:** BIO 1510 and 2870 and SED 6000 with grades of ‘C’ or better are required of all students prior to admission to the College of Education.

SE D 6000, with the topic Critical Epochs and Child Development (Prerequisite: BIO 2870), is to be taken in the spring semester prior to admission to the College of Education.

**English/Speech Group:** ENG 1020, a 2000-level English course and COM 1010.

A Planned (non-teaching) minor must be completed prior to admission to Education. Required courses include: ANT 2100, BIO 2870, PS 1010, PSY 2300, SOC 2000, ELE 3200, and SED 6000.

Students can obtain major/minor worksheets for Special Education in the University Advising Center, 1600 Adamany Library.
AFRICAN TRAVEL-STUDY PROGRAMS

Ghana and South Africa

*Program Office*: Department of Africana Studies; 577-2321
*Coordinator*: Eboe Hutchful

The Department of Africana Studies sponsors a summer term (four weeks on site) travel-study experience in the African countries of Ghana and South Africa. This program involves formal registration for graduate or undergraduate credit in Africana Directed Study (AFS 6990). This course is taught by a W.S.U. faculty member as well as faculty members of the The Institute of African Studies at the University of Ghana, at Legon, Ghana, and the University of the Western Cape, at Cape Town, South Africa.

The institute of African Studies was established in 1961 as an interdisciplinary center for scholarship, teaching and research in African history, culture and religion. It offers both undergraduate and graduate instruction by its own faculty and collaborates with the social science departments of the University of Ghana. Located eight miles from Accra and in the shadow of the Aburi Hills, the University of Ghana is a large tranquil campus of original and striking architectural design and is justly considered one of the most beautiful university campuses in Africa. It is a residential university, organized around a hall system, and combines an active academic and social life.

The University of the Western Cape is one of the historically black universities in South Africa, located in the suburb of Constantia, just outside of Cape Town. The University has attracted prominent scholars from all over the continent, and is particularly strong in Africanist social sciences. Like Ghana, South Africa has a glorious history of indigenous culture, state formation, and resistance to European penetration; however, the country came to world attention primarily as a result of the bitter experience of apartheid. Many aspects of South Africa’s segregationist history and anti-apartheid struggle evoked the civil rights struggle in the United States. Since 1994, South Africa has been involved in a unique and fragile experiment of racial equality and reconciliation, democracy and economic development.

The objectives of this travel-study program are to introduce students to broad questions of historical continuity and discontinuity, adaptation and readaptation, and syntheses that have characterized African cultures. Particular attention is given to normative values and religious views, economic and political systems, educational and health care systems, and family and community solidarities in the past and present. The program seeks to illuminate the fundamental and broad diversity in African lives as they are structured through traditional cultures, colonial impacts, nationality, gender, and socio-economic differentiation. It is designed to give students a sense of the successes and setbacks and ongoing challenges of African nationhood, and of Africa’s relations with the United States and the rest of the world. On a personal basis the goals of the program are:

1. To provide intimate first-hand experience of African life styles and values systems.
2. To encourage among students an appreciation for cultural diversity through exposure to major foreign cultures.
4. To equip students with conceptual and intellectual tools to analyze the complexity of cultural and political institutions in Africa.
5. To engage students in critical thinking and field observation in the social sciences.

Benin

*Program Office*: Department of Anthropology; 577-2953
*Coordinator*: Guerin C. Montilus

The Department of Anthropology sponsors a biennial interdisciplinary summer study program in collaboration with the National University of Benin in Cotonou, Republic of Benin, West Africa. Founded in 1984, this program provides first-hand experience of African life styles and value systems through lectures by African instructors and interviews with Benin residents. Depending on student interest, attention is paid to African realities such as geography, history, religion, economy, politics, migration, family and kinship, education and health care systems. This broad range of topics is reflected in the kinds of formal registration available for the program, that is, students may use this travel-study experience as the basis of instruction for a number of different W.S.U. courses offered by other departments and colleges within the University. Both graduate and undergraduate credits are optional and non-credit participants are welcome.

CARIBBEAN TRAVEL-STUDY PROGRAM

Cuba and Haiti

*Program Office*: Department of Anthropology; 577-2953
*Coordinator*: Guerin C. Montilus

The Caribbean study trip is an interdisciplinary study program sponsored by the Anthropology Department and hosted by the School of Preventive Medicine of the University of Santiago of Cuba and/or the Historical Ethnological Museum of the State University of Haiti, Port-au-Prince, Haiti. Both of these programs offer travel-study experiences which focus on Caribbean realities such as health care, educational systems, geography, history, religion, economy, politics, art, population, migration, family and kinship. The study trip provides first-hand experience of Caribbean life styles and value systems through lectures by Caribbean scholars and field trips guided by Caribbean instructors as well as personal interviews with Caribbean residents. Both graduate and undergraduate credits are optional and non-credit participants are welcome.

JUNIOR YEAR IN GERMANY

Munich Program

*Office*: 471/473 Manoogian Hall; 577-4605; Fax: 577-3266
*Program Director*: Mark Ferguson

Not just for German majors, the Junior Year in Germany program is a unique study abroad experience open to students of any major at Wayne State University. Students will earn W.S.U. credit for one academic year towards their degree while spending the year in Germany enrolled at the University of Munich. This program has a national reputation for excellence, and enrolls students from a wide variety of colleges and universities across the country. By spending an entire year abroad, fully integrated into the academic program of a German university and experiencing first-hand everyday life of another society and culture, Junior Year participants acquire valuable linguistic skills and intercultural experiences, giving them distinct advantages in the pursuit of many career goals.

*Life in Munich*: Munich is a large, fascinating and culturally enriching city. It is renowned for a centuries-long cultivation of the arts, as well as its significant place in Germany’s prominent global business community. The city boasts two prestigious opera houses and four symphony orchestras, as well as an array of theaters from the Kammerspielhaus which features classical works, to the Munchener Folkstheater which stages contemporary productions — all of which are available at reduced student rates. Additionally, there are numerous museums and art galleries featuring some of the finest collec-
tions in the world and making this location one of special interest for study in the arts.

ADMISSION REQUIREMENTS: The basic requirements for admission to the Program are: 1) Junior (completion of 60 credits), senior, or graduate standing at Wayne State (students from other universities are eligible with analogous standing at their institution); 2) Two years of college German with a ‘B’ average; 3) An overall 3.0 g.p.a., or better.

ORIENTATION: The program begins with an orientation period that combines intensive language instruction with an introduction to the German university system to prepare students for their studies at the university. Orientation also includes a variety of activities designed to introduce students to various facets of everyday life in their new surroundings.

LIVING ARRANGEMENTS IN GERMANY: Students are housed in the German university dormitories alongside their German counterparts which encourages maximum immersion in the language and culture. All rooms are single with cooking and common-room facilities. The program offices are centrally located near the University in the city center, where a full-time Resident Director and support staff are available to assist and guide students throughout the year.

COURSES and TUTORIALS: Students who study in Munich may take the following types of courses (all coursework is in German):

1) Courses offered by the Program exclusively for Junior Year students. These courses are fully described in the Program brochure available from the W.S.U. Junior Year Program Office (see above).
2) Courses offered by the German university for which the Program provides a tutor who meets with students once a week for out-of-class tutorials.
3) Courses offered by the German university without Program sponsored tutorials. Students may take courses in almost any discipline at the German universities if they meet course prerequisites and have the necessary language skills.

INTERNSHIPS and WORK OPPORTUNITIES: The Junior Year in Munich can provide opportunities for professional experience and business related internships. In the past, JYM students have held internships with local news journals, publishing houses and several major international firms. The Program also offers the JYM/ISA Consult Pratikum, an internship arrangement with the Dresden branch of ISA Consult, a consulting firm providing research and consultancy services for governmental authorities, public industries, and a wide range of businesses in the private sector throughout Germany. For students interested in Foreign Service, opportunities exist to work with several organizations such as the U.S. Consulate in Munich. Students may also be able to find part-time work in Germany.

SCHOLARSHIPS and LOANS:

German-American Cultural Center Scholarship: Award of $500-$1,000 open to W.S.U. students accepted to the Junior Year Program.

Junior Year in Germany Scholarship: Awards of $500-$2,000 open to students accepted to the Junior Year in Germany Program with outstanding achievement and demonstrated financial need.

Max Kade Foundation Scholarship: Awards of $500-$2,000 open to students accepted in the Junior Year in Germany Program with outstanding academic achievement and demonstrated financial need.

Wayne State University students holding Presidential Scholarships or Michigan Competitive Scholarships may use these for Program tuition as well as any Federal grants and loans.

MODERN GREEK IN THESSALONIKE

Program Office: Department of Classics, Greek, and Latin; 577-3032
Coordinator: Kathleen McNameee

Since 1972 the Ministry of Culture of the Republic of Greece has made available annual scholarships to support study abroad experiences for students of Modern Greek language and literature at Wayne State University. The scholarships are intended to enable a student to improve his/her knowledge of Greece, its people, and their way of life through study at the international summer school of the Institute for Balkan Studies in the month of August. The course includes three hours of intensive study of modern Greek (at the intermediate or advanced level) each day and two hours of study each day of the history, literature and philosophy, art and archaeology of Greece from ancient to modern times. Successful completion of these courses earns a special certificate for the student who is expected to submit a written report reflecting his/her experiences and accomplishments at the Balkan Institute. The report will be due one month after return from Greece.

ELIGIBILITY:

1) Applicants must have a basic speaking, reading, and writing knowledge of modern Greek.
2) Applicants must be currently enrolled at Wayne State University at the time of application and have successfully completed a minimum of three semesters of full-time credit. Applicants must have taken at least one course in modern Greek at W.S.U., but need not be currently enrolled in a modern Greek course.
3) Citizens of Greece are not eligible, nor are previous recipients of the scholarship.

APPLICATION:

1) Applicants must complete an application form obtainable from the secretary of the Department of Classics, Greek and Latin, 431 Manoogian Hall. For consideration for the immediately subsequent summer, applications are due in the departmental office by 5:00 p.m. of the second Monday of March. Late applications will not be considered.
2) Applicants must submit with their forms a 250 - 500 word essay (in English) describing the particular advantages this experience would bring to the student.

SELECTION CRITERIA:

1) Excellence of scholarship in general at the university level and especially in modern Greek.
2) Evaluation of the essay.
3) Preference will be given to applicants who have not visited Greece as an adult and to those who are not of Greek descent.
AFRICANA STUDIES

Office: Fourth Floor, 51 West Warren; 577-2321
Web: http://www.cla.wayne.edu/africanastudies
Chairperson: Perry Mars

Professor
Melba J. Boyd, Eboe Hutchful, Perry Mars

Assistant Professors
Saheed Adejumobi, Beth Bates

Lecturers
Ella Davis, Todd Duncan

Adjunct Professors
Michael Goldfield, Kathryn Lindberg, Guerin Montilius, Alma Young

Degree Program

BACHELOR OF ARTS in Africana Studies

Africana Studies is the systematic study of the historical, cultural, intellectual and social development of people of African descent, the societies of which they are a part, and their contribution to world civilization. Its principal geographic domains are the United States, the Caribbean, Latin America, the African continent, and increasingly western Europe where large communities reside. The field features a diversity of approaches, intellectual and practical interests, and draws upon the humanistic, social and behavioral sciences into its interdisciplinary framework.

The major in Africana Studies prepares students for a wide range of professional and career opportunities. Majors can continue to graduate (including doctoral level) studies in the humanities, social and behavioral sciences, or pursue professional programs in law, medicine, business, and journalism. Graduates who enter the job market are prepared for careers in human services and public health, education, public relations, community development, urban planning; and more generally for jobs in the public sector, in central cities and urban institutions, or jobs that involve cultural or intergroup relations as well as international affairs. In the context of metropolitan Detroit, Africana Studies graduates will be better prepared to deal with the complexity and diversity of the city's political and demographic realities as they assume important roles of leadership.

Bachelor of Arts: Major in Africana Studies

Admission Requirements: See the general requirements for undergraduate admission to the University, page 15.

DEGREE REQUIREMENTS: Candidates must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 23) and the College of Liberal Arts Group Requirements (see page 223), as well as the departmental major requirements cited below. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

Major Requirements: Majors must complete at least thirty-six credits in a prescribed course of study, including:
1. Two introductory courses: AFS 1010 and AFS 3420 (seven credits).
2. Completion of study in an approved area of concentration (twenty-four credits).
3. Field Work (AFS 5991) and/or Directed Study (AFS 6990) (three to eight credits).

Areas of Concentration

Cultural Studies and the Arts (twenty-four credits): This concentration is designed for students who are interested in exploring the relations between cultural expression/production and the social experience of Black life.
1. The following three courses: AFS 2010, AFS 3200, AFS 3250.
2. Three or more courses from: AFS (ENG) 2390, AFS 5110, AFS (W S) 5300, AFS 5310.
3. Two courses from: AFS 2210, AFS (SOC) 2600, AFS 3160, AFS 3180, AFS 3470, AFS 5130, AFS 5320, AFS 5350.
4. One cognate from: AFS 5480; A H (AFS) 3750; ANT (AFS) 5260; ENG (AFS) 2390, MUH 3360, 6310; COM (AFS) 5040; COM (AFS) 4240.

Development and Public Policy (twenty-four credits): This concentration emphasizes historical, political and policy dimensions of the economic and social development of Black communities.
1. The following two courses: AFS 3250, AFS 3420.
2. Three courses from: AFS (HIS) 5320, AFS (HIS) 5160, AFS (W S) 5110; HIS (AFS) 3140 or HIS (AFS) 3150; AFS 3160, AFS 3180, AFS 3250, AFS 3360, AFS 3420 (P S 3820); AFS 5480, AFS 5600, AFS 6600 (ULM 7260).
3. Two courses from: AFS 2500, AFS 2600, AFS 3860, AFS (ISP) 5130, AFS (HIS) 5320, AFS (SOC) 5580, AFS (PSY) 5700, AFS 5860.
4. One cognate from: ANT 3110, 3520, 6230; GEG 6150, 6350; ISP (AFS) 3610; HIS 3996, 5730; P S (AFS) 4780, P S (AFS) 5030, P S (AFS) 5740, P S 6050 (AFS 6100); SOC (AFS) 5570, SOC 7320; S W 6510.

Minor in Africana Studies

Students majoring in other fields can minor in Africana Studies. The minor consists of six courses in this department. These must include AFS 1010 and two of the following: AFS 2010, 2210, 3160, 3200, 3250, 3420. Students wishing to minor in Africana Studies are encouraged to visit the departmental office for information and counseling. A minor may be declared when filing for graduation.

Internships

Internships are available in which students gain experience through placements in settings similar to those in which they will later be seeking professional roles. These include: community service agencies, community-based self-development organizations, public and private institutions, Black alternative organizations and other appropriate settings. Some students may also do practicums directly with the Department of Africana Studies, assisting in research, community relations, and in the organization, coordination and conduct of community extension and education service programs. The objective of this mode of study is to offer students the opportunity to synthesize diverse ideas, theories and methodologies with important and practical real world imperatives.

Dudley Randall and Coleman A. Young Scholarship Endowment Funds

Only Africana Studies majors are eligible for scholarship awards under these endowed funds. Majors eligible for awards must maintain a minimum g.p.a. of 3.0 in the Department, exhibit qualities of leadership and/or significant service to community development. Recipients are selected by an awards committee, and the amount of the award depends on the funds available.

College of Liberal Arts 233
Summer Study Abroad
This travel program periodically visits Africa and/or the Caribbean. Through an integrated field/classroom/seminar experience, students are challenged to grow intellectually, as well as to increase their self-awareness and sensitivity to other cultures. For more information, consult the department adviser.

African Language
Students may satisfy the Foreign Culture (FC) General Education Requirement by successfully completing the three-course sequence in Swahili offered by this department. (See ‘Courses of Instruction’ section, below.)

UNDERGRADUATE COURSES
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

Africana Studies Courses (AFS)
1010 Introduction to Africana Studies. Cr. 3
An interdisciplinary approach to exploring several broad issues, topics, theories, concepts and perspectives which describe and explain the experiences of persons of African descent in America, the Continent, and the diaspora. (T)

2010 African American Culture: Historical and Aesthetic Roots. Cr. 4
Core requirement for Africana Studies majors. Examination of the historical, traditional and aesthetic bases of a variety of cultural forms -- language, literature, music -- of the Black experience. (T)

2210 (SS) Black Social and Political Thought. Cr. 4
Core requirement for Africana Studies majors. Survey of the Black intellectual and political tradition from the United States, the Caribbean and Africa. (T)

2390 (ENG 2390) (IC) Introduction to African-American Literature: Language and Writing. Cr. 4
Prereq: ENG 1020 or equiv. Introduction to major themes and some major writers of African-American literature, emphasizing modern works. Reading and writing about representative poetry, fiction, essays, and plays. (T)

2500 (GPH 2500) Geography of Africa. Cr. 4
Geography of modern Africa: regions, countries, peoples. Physical environment, resource potential, population groups, migrations, economics, development, political systems and conflicts. (I)

2600 Race and Racism in America. (SOC 2600) Cr. 3
Examination of the nature and practice of racism in American society from its historical foundations to its contemporary institutional forms. (B)

3140 (HIS 3140) The Black Experience in America I: 1619-1865. Cr. 3-4
African origins of the American black; transition from freedom to slavery; status of the black under slavery. (F)

3150 (HIS 3150) The Black Experience in America II: 1865 to the Present. Cr. 3-4
The black in national life since emancipation. (W)

3160 Black Urban History. (HIS 3160) Cr. 4
Historical experience of African Americans in urban areas; impact of their communities on urban development from 1860 to contemporary times. (B)

3170 (HIS 3170) Ethnicity and Race in American Life. (AFS 6170) (HIS 6170) Cr. 3-4
Exploration of complicated relationship between ethnic and racial diversity and the making of America. Using historical, literary, and cultural readings and sources to examine key themes: Who was the ‘Other’? What is an ‘American’? (B)

3180 Black Social Movements. Cr. 4
Prereq: AFS 2210 recommended. Survey of mass or popular Black movements with emphasis on their political and cultural impact, historical continuity and organization. (Y)

3200 The African-American Film Experience. Cr. 4
Historical and contemporary portrayals of African American people in narrative and documentary film. Emphasis on filmic approaches to race relations, cinematic elaboration of racial stereotypes, and legitimation functions of film. (Y)

3250 (FC) Politics and Culture in Anglophone Caribbean. Cr. 3
Survey of political, economic and cultural life of the Caribbean. Relationship of the Caribbean to U.S. and world political and cultural developments. Interdisciplinary approach: historical, comparative, thematic issues. (Y)

3420 Pan Africanism: Politics of the Black Diaspora. (P S 3820) Cr. 4
Interplay of Pan Africanism as a cultural and socio-political movement in world politics from its origins as a concept to organizing practice worldwide. (Y)

3610 (ISP 3610) (FC) Interdisciplinary Perspectives on Foreign Culture: The Africans. Cr. 4
Prereq: upper division standing. Humanistic aspects, history, sociocultural institutions of African cultures; theory and methods, comparativist perspectives. (Y)

3750 (A H 3750) African American Art. Cr. 3
Prereq: one 1000-level Art History course. Introduction to African American art from the colonial period to the present, with emphasis on the U.S. and some attention to South and Central America and the Caribbean. (Y)

3860 Race, Class and the Criminal Justice System. (SOC 3860) Cr. 3
Prereq: upper division standing or criminal justice majors or minors. Survey of race and class in the criminal justice system: police, courts, jails and prisons. Socio-economic environment of offenders, and effects of criminal justice process on their ability to function positively within that environment. (T)

4240 African Americans in Broadcasting. (COM 4240) Cr. 4
Historical overview of African Americans in radio and television with emphasis on three areas of study: news and documentary; entertainment and advertising; and ownership, employment and access. (Y)

4750 (N E 4750) Colonization and Decolonization in North Africa: The Example of Algeria. Cr. 3
European (French) colonization in North Africa with emphasis on Algeria. Theoretical principles of nineteenth century colonization; emergence of national liberation movements. Socio-economic impact of colonization on Algeria through the 1990s. (Y)
5030  (P S 5030) African American Politics. Cr. 4
Nature and texture of black politics; various perspectives on politics by blacks; the impact of blacks on American politics. (Y)

5040  (COM 5040) Diversity in Interpersonal Communication. Cr. 3
Issues and topics related to the study of communication behaviors and patterns in gender, race, social class, and sexual orientation within the United States. (Y)

5110  Black Women in America. (W S 5110) Cr. 3
Social, cultural, artistic and economic development of Black women in America; topics include: racism, sexism, marriage, motherhood, feminism, and the welfare system. (Y)

5130  The Black Family. (ISP 5130) Cr. 4
Prereq: upper division undergraduate standing. Survey and analysis of historical and social forces relative to the study of the Black family. (Y)

5220  (THR 5220) Black Dramatic Literature. Cr. 3
Critical study of significant black dramatists of the American stage: Willis Richardson, Marita Bonner, Randolph Edmonds, Langston Hughes, Alice Childress, Lorraine Hansberry, Ed Bullins, Amiri Baraka, Ntozake Shange, and August Wilson. (Y)

5260  (ANT 5260) The African Religious Experience: A Triple Heritage. (ISP 5260) Cr. 3
A triple heritage has contributed to the shaping of lives of African descent: the indigenous, Islamic and Christian religions. Analysis of these legacies, their specificity, interplay and significance in Africa, the Caribbean, South and North America. (B)

5310  Special Topics in Africana Studies. Cr. 3-4
Topics to be announced in Schedule of Classes; topics may include: Caribbean politics, African development, male-female relationships, Negritude. (T)

5320  Black Labor History. (HIS 5320) Cr. 3
Prereq: upper division standing. Offered for undergraduate credit only. History of black labor from the colonial period to the present. Topics include the development of a dual racial labor system in America; black workers in the development and evolution of the American labor movement; and black responses to white working class behavior. (I)

5480  African Americans in the U.S. Political Economy. Cr. 4
Interdisciplinary and case study approach to African American social and economic development. Social stratification in Black communities; growth of Black middle class; racial discrimination in national economy, income disparities between whites and Blacks; and growth of urban Black underclass. (Y)

5570  (SOC 5570) Race Relations in Urban Society. Cr. 3
Theoretical orientations applied analytically to enhance an understanding of the patterned structures of privilege in society which are based on race. Inequality, segregation-desegregation, pluralism; social structural frameworks; some attention to social-psychological aspects of topics such as prejudice and racism. (I)

5580  Law and the African American Experience. (SOC 5580) Cr. 4
Prereq: upper division or graduate standing. In-depth examination of the African American experience with law in the U.S.; historical development of the U.S. Constitution; legal barriers to equality and the influence of race on the law; use of law as a political instrument; participation of blacks in the legal process; comparisons with other countries. (B)

5700  The Psychology of African Americans. (PSY 5700) Cr. 4
Prereq: upper division standing. Methodological approaches to and theories of Black behavior and personality development. Topics include: race and pathology, life-span and psycho-sexual development, personality formation, social and environmental stress and adaptation. (B)

5740  (P S 5740) Ethnicity: The Politics of Conflict and Cooperation. (PCS 5500) Cr. 4
Current ethnic (racial, linguistic, religious, and cultural) conflicts regionally, nationally and internationally. Introduction to concepts and analytic perspectives for understanding ethnicity as a factor in nation building and maintenance. (Y)

5991  Field Work in the Black Community. Cr. 3-8
Prereq: written consent of instructor. Open only to undergraduate majors. Field placement in community-based, human services, and civic organizations and governmental agencies. (Y)

6100  (ULM 6100) Class, Race, and Politics in America. (HIS 5110) (P S 6050) (SOC 7330) (U P 7030) Cr. 3
Prereq: senior standing or consent of instructor. Historical and analytic investigation into the role of class and race in American politics. (Y)

6170  (HIS 3170) Studies in Ethnicity and Race in American Life. (AFS 3170) (HIS 6170) Cr. 3-4
Exploration of complicated relationship between ethnic and racial diversity and the making of America. Using historical, literary, and cultural readings and sources to examine key themes: Who was the ‘Other’? What is an ‘American’? (B)

6455  (U P 6455) Discrimination and Fair Housing. (SOC 6455) (P S 6455) (ECO 6455) Cr. 3
Prereq: senior or graduate standing. Multidisciplinary investigation into the nature, motivations, consequences, and legal/public policy implications of racial/ethnic discrimination in housing and related markets in U.S. metropolitan areas. (B)

6510  (S W 6510) Social Work and the Black Community. Cr. 2
An examination of the variety of points of view and trends within the black community as a background for social work assessment and intervention. (Y)

6600  (ULM 7260) Urban Poverty and Racial Segregation. (ANT 7260) (P S 7260) (SOC 7350) (U P 7260) Cr. 3
Prereq: graduate standing. Review of theories of poverty from various economic/political perspectives; historical intervention policies; current literature on the interplay of racial, economic, and spatial factors on growing economic inequality among urban whites and African-Americans. Political rationale and meaning of the ‘underclass’ debate. (Y)

6990  Directed Study. Cr. 3-8
Prereq: written consent of instructor. Open only to majors and graduate students. Reading and research projects. (Y)

Swahili Courses (SWA)

1010  Elementary Swahili I. Cr. 4
Training in pronunciation, aural comprehension, oral and written expression. Supervised laboratory period for part of class preparation. Material fee as indicated in the Schedule of Classes. (F)

1020  Elementary Swahili II. Cr. 4
Prereq: SWA 1010 or consent of instructor. Continuation of SWA 1010. Material fee as indicated in the Schedule of Classes. (W)

2010  (FC) Intermediate Swahili. Cr. 4
Prereq: SWA 1020 or consent of instructor. Conversational Swahili and grammar review; reading of Swahili literature. Continuation of SWA 1020. Material fee as indicated in the Schedule of Classes. (S)
AMERICAN STUDIES

Office: 51 West Warren, Room 2216; 577-8627
Web: http://www.americanstudies.wayne.edu

Director: Renata R.M. Wasserman

Advisory Committee

Anthropology: Guerin Montilus
Art and Art History: Marian Jackson
Chicano-Boricua Studies: Jose Cuello
English: Robert Aguirre, Todd Duncan, Cynthia Erb, Henry Golemba, Gwen Gorzelsky, William Harris, Jerry Herron, Janet Langlois, Michael Liebler, Kathryn Lindberg, Sheila Lloyd, Ross J. Padalof, Kirsten Thompson, Renata Wasserman, Barrett Watson
German and Slavic Studies: Alfred Cobbs, Donald Haase
History: Marc Krumen, Alan Raucher, Stanley Shapiro, Sandra VanBurkleo
Philosophy: William D. Stine
Political Science: Philip R. Abbott
Urban, Labor and Metropolitan Studies: Francis Shor

Degree Program

BACHELOR OF ARTS with a major in American studies

American Studies is an interdepartmental program administered by an advisory committee composed of specialists on American culture, offering undergraduates an opportunity for a flexible and diversified major. By enrolling in a core of required courses and by choosing electives among the humanities and social sciences, majors concentrate on the study of the nature and development of American society and culture. Depending on individual interests, electives may be chosen from the departments of Africana Studies, Anthropology, Art and Art History, Economics, English, Geography, History, Humanities, Philosophy, Political Science, Sociology, and some interdisciplinary programs, such as Chicano-Boricua Studies and Urban Studies. Interested students should consult the director or those committee members whose fields most closely approximate their own interests.

Admission Requirements: See the general requirements for undergraduate admission to the University, page 15.

DEGREE REQUIREMENTS: Candidates must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 23) and the College of Liberal Arts Group Requirements (see page 223), as well as the major requirements cited below. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

Major Requirements: Major concentration in American studies consists of at least forty-three credits: a minimum of twenty-five credits in required courses, and eighteen credits in electives (at 3000 level or above), distributed as follows:

American Studies: at least six credits, including A S 2010 and 5010 or A S 5997.

English: at least nine credits, selected from among ENG 3140 and 5400 through 5490.

History: at least ten credits, including HIS 2040, 2050, and 5190.

Electives: Eighteen credits in course work pertaining to American culture and institutions in at least three departments. Selection of these courses, which may also meet the Liberal Arts College Group Requirements, must be made in consultation with the director of American Studies.

Writing Intensive (WI) Requirement: In American studies, this consists of election of a course in an appropriate department numbered 5993, together with an oral examination, to be arranged in consultation with the Director of American Studies.

Minor in American Studies

The minor in American studies requires eighteen credits in coursework, distributed as follows:

a. American Studies Core:

A S 2010 -- Introduction to American Culture: Cr. 3-4
A S 5010 -- Topics in American Studies: Cr. 3-4
A S 5997 -- Seminar in American Studies: Cr. 3-4

b. Electives: In addition, in consultation with the Director of American Studies, students must take sufficient elective credits (at 3000 level or above) to total eighteen credits. Electives for the minor will be drawn from courses in the cooperating departments and programs.

AMERICAN STUDIES COURSES (A S)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

2010 Introduction to American Culture. Cr. 3-4
Conflicts and changes in American values, ideas, heroes, and national self-definition introduced through the study of literature, art, films, and other cultural expression. (T)

3400 Themes and Genres in American Studies. Cr. 3

5010 Topics in American Studies. Cr. 3-4 (Max. 12)
Inquiry into the values of American civilization as revealed in a wide variety of evidence from the beginnings of the American experience to the present, with a view to understanding the distinctive characteristics of the American peoples. (Y)

5997 Seminar in American Studies. Cr. 3-4 (Max. 8)
Reading, discussion, and individual research oriented toward a common theme or problem in the study of American culture. Topics to be announced in Schedule of Classes. (I)
**ANTHROPOLOGY**

**Office:** 137 Manoogian; 577-2935  
**Chairperson:** Thomas W. Killion  
**Web:** http://www.anthro.wayne.edu

**Professors**  
Barbara C. Aswad (Emerita), Bernice A. Kaplan (Emerita), Guerin Monti-  
lus, Bernard Ortiz de Montellano (Emeritus), Andrea Sankar

**Associate Professors**  
Allen W. Batteau, Tamara L. Bray, Gordon L. Grosscup (Emeritus), Thomas  
W. Killion, Mark Luborsky, Frances Trix

**Assistant Professors**  
David A. Barondess, Sherylyn H. Briller, Lisa Gurr, Barry Lyons, Jessica  
Price

**Lecturers**  
Beverly Fogelson, Gregory Prang

**Adjunct Professors**  
Morris Goodman, Eugene Perrin, Mark L. Weiss

**Adjunct Associate Professors**  
Elizabeth Briody, Dorothy Nelson

**Degree Programs**

BACHELOR OF ARTS with a major in anthropology  
*MASTER OF ARTS with a major in anthropology*  
*MASTER OF ARTS with a major in anthropology and a concentration in applied medical anthropology*  
*DOCTOR OF PHILOSOPHY with a major in anthropology and concentrations in cultural anthropology, archaeology, medical anthropology, physical anthropology, urban anthropology, applied anthropology, business anthropology, and industrial and organizational anthropology*

Anthropology is a comparative social science which seeks to uncover principles that govern human social and cultural behavior. Anthropology also seeks to understand and interpret human thoughts, feeling, and behavior within the context of different cultural systems. The discipline is divided into the fields of cultural, physical, linguistic, archaeology, and applied anthropology. Wayne State’s department offers a broad-based Bachelor of Arts in anthropology.

Undergraduate training in anthropology is designed for various groups of students: (1) those desiring scientific knowledge of the social and cultural determinants of behavior; (2) those preparing to enter law, medicine, public health, social work, information sciences, or public administration; (3) those preparing for employment in historical or natural science museums; (4) those preparing to serve the business and/or industrial community as a specialist in cross-cultural analysis or management consulting; (5) those seeking to enter the field of cultural resource management; (6) those expecting to work with the general public and, therefore, requiring a broad grasp of the nature of society, group behavior and social change; (7) those looking forward to teaching anthropology or another of the social or behavioral sciences; (8) those preparing for a career in another country, in international studies, or in foreign affairs; (9) those planning to pursue careers in law enforcement, police science, or criminal justice; and (10) those who desire to pursue graduate studies in anthropology.

* For specific requirements, see the Wayne State University Graduate Bulletin.

**Bachelor of Arts**  
with a Major in Anthropology

The Department offers the Bachelor of Arts degree with a major in anthropology, for which the following admission and degree requirements apply.

**Admission requirements** for this degree program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

**DEGREE REQUIREMENTS:** Candidates must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 23) and the College of Liberal Arts Group Requirements (see page 223), as well as the departmental major requirements cited below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

**Major Requirements:** Students majoring in anthropology are required to elect a minimum of thirty credits in anthropology, including Anthropology 2100, 2110, 3100, 3200, 5210 (or an acceptable alternative), 5310, 5380, and 5996. In addition, at least one culture area course must be completed (e.g., 3520, 3540, 3550, 6290, or an acceptable alternative). A minimum of fifteen credits must be taken in residence. The capstone course (5996) must be taken in residence.

**Limitations:** Students may not elect more than forty-five credits in course work within the Department.

**Cognate Requirements:** Choices of cognate courses should be discussed with faculty in the Department of Anthropology.

**Honors Program for Majors:** see description of Honors Program, below.

**Honors Program**

This program is open to students pursuing a bachelor’s degree with a major in anthropology who maintain an overall cumulative grade point average of at least 3.3 and a similar g.p.a. in anthropology courses. Honors majors must demonstrate the ability to do original work by writing an honors thesis during their senior year. The anthropology honors program leads to a degree designation “With Honors in Anthropology”. Students in the Honors Program must satisfy the following requirements:

1. All requirements for a major in anthropology;
2. Overall g.p.a. of 3.3 or above;
3. Anthropology g.p.a. of 3.3 or above;
4. A minimum of three and a maximum of six thesis credits in anthropology (ANT 4999);
5. An approved honors thesis;
6. One 4000-level honors seminar (HON 4200-4280) offered by the Liberal Arts Honors Program.
7. A total of twelve honors-designated credits including ANT 4999, the 4000-level Honors Program seminar, and other honors credits earned in Honors Program courses or in Honors sections of courses offered by other departments.

For further information about honors credits available each semester, see the Liberal Arts section of the University Schedule of Classes under ‘Honors Program’; or contact the Director of the Honors Program. For additional information on the Honors Program in Anthropology, contact the Departmental Honors Adviser.

**Combined Degree**

Students pursuing a degree at an approved school of dentistry, medicine, or law may obtain a combined degree with anthropology; see
Minor Study in Anthropology

The election of a minor in anthropology is appropriate for students in a variety of disciplines who wish to add a comparative, cross-cultural, or bio-cultural perspective on the study of human beings to their area of specialization. The minor requires a minimum of eighteen credits in anthropology courses including ANT 2100 (offered for three or four credits); one of the following: ANT 2110, 3100, 3200; as well as two of the following: ANT 5210, 5310, 5380, or 5996. Students must take an additional six credits in anthropological elective courses. Total credits, other than Anthropology 2100, must equal at least fifteen for all students (including transfer students).

In order for students to gain maximum benefit from their minor in conjunction with their major, it is strongly recommended that they consult with an adviser in the department before electing courses. A list of elective anthropology courses recommended for combination with a variety of majors is available from the Department.

‘AGRADE’ Program

The ‘AGRADE’ (Accelerated Graduate Enrollment) Program enables qualified seniors in the College of Liberal Arts to enroll simultaneously in the undergraduate and graduate programs of the College. Students may apply for the ‘AGRADE’ Program during the term in which they will complete ninety credits; to qualify, students must have a minimum 3.6 g.p.a. in anthropology and be in the cumulative range in their overall g.p.a. For more details about the ‘AGRADE’ Program, contact the Undergraduate Director and the Graduate Director of the Department of Anthropology (577-2935), and the Graduate Officer of the College of Liberal Arts.

ANTHROPOLOGY COURSES (ANT)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

2100  (SS) Introduction to Anthropology. Cr. 3-4
Required for majors. Biological evolution, human variability, prehistoric humans and early cultures, ethnography, language and cultural growth, applied anthropology. (T)

2110  (LS) Introduction to Physical Anthropology. Cr. 3
Required for majors. Role of hereditary and environmental factors, human genetics, meaning of ‘race’ and racial classifications, fossil records, non-human primate behavior and evolution. (T)

2500  Archaeology of the Great Lakes. Cr. 4
Introduction to Native cultures and archaeology of Michigan and the Great Lakes region, from the first peopling of the region through early historic times; changing patterns of adaptation to the ecology of the Great Lakes region; focus on ancient technologies and material culture, social organization, settlement patterns, economic strategies, and political formations. (T)

3100  Cultures of the World. Cr. 3-4
Required for majors. Only students in Honors Program may register for four credits. Human societies exhibit tremendous variation. How and why do we differ? What do these differences mean in today’s world. Explore, contrast, compare, understand cultures like those of the Amazon rain forest, China, Japan, Alaska, India, Central America, and urban America. View their lifestyles, politics, kinship, economics, religions through readings, discussion, film. (Y)

3110  Detroit Area Minorities: Arabs, Hispanics, and African Americans. Cr. 3-4
Offered for four credits to Liberal Arts Honors students only. Arab, African American, and Hispanic minorities from the perspective of history, social organization, and cultural background. Topics include: family roles, community structure, migration, religious beliefs, education, health problems. (T)

3150  (FC) Anthropology of Business. Cr. 3-4
Differences between American culture/business practice and the culture/business practice of other countries: assumptions, world view and family structure, organization and language. (T)

3200  (HS) Lost Cities and Ancient Civilizations. Cr. 3
Required for majors. Early civilizations that developed in different parts of the world in comparative perspective. Hypotheses to explain rise and fall of civilizations, in context of ancient cultures. Basics of archaeology: how facts are formed; meaning of ‘civilization.’ How understanding of the past shapes understanding of the present. Geared toward the non-major. (Y)

3210  African Prehistory. Cr. 3
Prereq: ANT 2100, 2300, or consent of instructor. Survey of the archaeological and fossil record of human development in Africa, from faint traces over 300 million years old through the transition to food production, settled life, and civilizations. (B)

3220  The Inca and their Ancestors. Cr. 3
Prereq: ANT 2100, 3200, or consent of instructor. Introduction to pre-columbian civilizations of South America. Archaeological and ethno-historical data on ancient cultures; foundations of Inca civilization; major cultures from different regions and periods. (B)

3520  (FC) Understanding Africa: Past, Present and Future. Cr. 3
In-depth knowledge of Africa through the study of its physiography, prehistory and history, social institutions, and social changes within a global context. (T)

3530  Native Americans. Cr. 3
Survey of Native American cultures north of Mexico in historical and comparative perspective; contemporary Native American issues. (I)

3540  (FC) Cultures and Societies of Latin America. Cr. 3
Cultural variation within Latin America; continuities and changes in the transition from indigenous and Meztizo societies to the urban, industrial, national contexts. (I)

3550  (FC) Arab Society in Transition. (N E 3550) Cr. 3
Distinctive social and cultural institutions and processes of change in the Arab Middle East. Regional variations: background and discussion of current political and economic systems and their relationship to international systems. (I)

3555  Sex and Gender in Prehistoric Societies. Cr. 3
Prereq: ANT 3220 or 5270 recommended. Recent developments in anthropological and archaeological research on women and gender. The engendering of archaeological, anthropological, historical, political, and methodological perspectives. (B)

3600  Topics in Anthropology. Cr. 3
Prereq: ANT 2100. Selected topics or emerging fields in any of the four anthropology subfields (cultural; physical; archaeology; linguistics). Topics to be announced in Schedule of Classes. (I)

3990  Directed Study. Cr. 2-6 (Max. 6)
Prereq: 16 credits in anthropology with grades of A or B; consent of instructor. (T)

4999  Honors Research and Thesis. Cr. 3-6
Prereq: senior standing; 3.3 h.p.a.; 3.3 h.p.a. in anthropology. Open only to majors in anthropology. Research and thesis to be completed under the direction of a faculty member whose expertise includes the
student’s area of interest. Adviser and a second reader will read the completed thesis. (T)

5060 Urban Anthropology. (SOC 5540) Cr. 3
Prereq: ANT 2100 or consent of instructor. Social-cultural effects of urbanization from a cross-cultural perspective with emphasis on the developing area of the world. The process of urbanization; the anthropological approach in the area of urban studies. (Y)

5140 Biology and Culture. Cr. 3
Prereq: ANT 2100 or 2110 or consent of instructor. Interrelationships between the cultural and biological aspects of humans; human genetic variability, human physiological plasticity and culture as associated mechanisms by which humans adapt to environmental stress. (I)

5170 Political Anthropology. Cr. 3
Prereq: ANT 2100 or 5200 or SOC 2010 or consent of instructor. Ethnographic and comparative study of power, politics, and political organizations in non-state and state societies and in the colonial encounter; evolutionary, functionalist, practice-oriented, Marxist, feminist, and Foucauldian approaches to the study of power. (I)

5180 Forensic Anthropology. Cr. 3
Prereq: CRJ 2000 or ANT 2110 or consent of instructor. Introductory survey of the natural, medical, and behavioral sciences with regard to forensic applications. Topics may include: toxicology, forensic pathology, fingerprints, ballistics, analysis of the human skeleton, body fluid identification. (B)

5200 The Ethnography. Cr. 3
Prereq: ANT 2100 or 5200 or consent of instructor. Social and cultural anthropological thought and practice, grounded in ethnographic study of contemporary human cultures and societies; people such as nomads, villagers, city dwellers, in their own space and time. Classical and contemporary ethnographies; analysis of theoretical approaches to study of culture, social relations, and social organization; ethnographies in historical and comparative perspectives; nature of ethnographic representation and knowledge. (Y)

5210 Anthropological Methods. Cr. 4
Prereq: ANT 2100 or consent of instructor. Required for majors. Intensive introduction to research methods, techniques and issues in anthropology. Students engage in a research experience supervised by the instructor, write a field journal, and complete a final exam. Exercises focus on data collection, data management, and data analysis. Techniques include participant observation, fieldnotes, and interviewing. Students learn how to use software packages employed by anthropological researchers in the computer lab. (Y)

5240 Cross Cultural Study of Gender. Cr. 3
Prereq: ANT 2100 or consent of instructor. Evolutionary and cultural bases of gender roles using a world sample, division of labor, marriage and sexual behavior, power and ideology. (I)

5260 The African Religious Experience: A Triple Heritage. (AFS 5260) (ISP 5260) Cr. 3
A triple heritage has contributed to the shaping of lives of African descent: the indigenous, Islamic and Christian religions. Analysis of these legacies, their specificity, interplay and significance in Africa, the Caribbean, South and North America. (B)

5270 Introduction to Archaeology. Cr. 3
Prereq: ANT 2100 or 3200. For advanced upper-level undergraduates with a background in anthropology, and graduate students. Current theoretical and methodological approaches to investigation of past societies; frameworks include culture history, processual, structuralist, neo-Marxist; methods and techniques used to investigate ancient environments, subsistence strategies, ideologies, and social, political and economic organizations. (B)

5280 Field Work in Archaeology of the Americas. (Y)

5310 Language and Culture. (LIN 5310) Cr. 3
Prereq: ANT 2100 or 5200 or SOC 2010 or consent of instructor. Explore the rich interconnections of language and culture in distant and local communities, in contexts where languages are declining or developing anew, and in life cycle and ordinary contexts of daily life. Students are also expected to explore their own language and cultural backgrounds and those to which they are drawn. (F)

5320 Language and Societies. (LIN 5320) Cr. 3
Prereq: ANT 2100 or 5200 or SOC 2010 or consent of instructor. Contemporary linguistic anthropologists see language as a form of social action. How has this understanding of language in society evolved? Read classic works of linguistic anthropology and contemporary studies in this growing field. Engage in research in language society. (W)

5330 Magic, Religion and Science. Cr. 3
Prereq: ANT 2100 or 5200 or SOC 2010 or consent of instructor. The nature and variety of religious belief and practice; theoretical interpretations. (B)

5380 History of Anthropology. Cr. 3
Prereq: ANT 2100 or 5200 or SOC 2010 or consent of instructor. Required for majors. History of ideas and explanatory theories in anthropology; continuities and discontinuities in British, French, American, German, Belgian, Russian, and Third World anthropologies. (Y)

5400 Anthropology of Health and Illness. Cr. 3
Prereq: ANT 2100 or consent of instructor. Concepts and theory in medical anthropology from cultural and biological perspectives. Topics include: cross-cultural aspects of sex and gender in health and illness, life course, sexuality, birth and death, bio-cultural approaches to healing and treatment, international health and epidemiology. (Y)

5430 (ISP 5510) End-of-Life Issues. (ISP 7510) (NUR 7515) (ANT 7430) (SOC 5020) (SOC 7020) Cr. 3-4
Physical, spiritual, legal, economic, political, cultural, and ethical issues at the end of life, examined as stories about individuals, families, and communities. (Y)

5510 Mesoamerican Civilization. (CBS 3510) Cr. 3
Prereq: ANT 2100 or consent of instructor, or CBS 2010. Survey of the history and characteristics of cultures in Mesoamerica prior to colonization, from the Maya and Olmec to the Aztec. (I)

5600 Museum Studies. Cr. 3
Introduction to basics of museums, museum work, and museum theory. Topics include: collections management, data bases, interpretive exhibit methods, current issues in museum studies, legal concerns, role of museums as educational institutions. (I)

5700 Applied Anthropology. Cr. 3
Prereq: ANT 2100 or 5200 or consent of instructor. The application of anthropological concepts and methods to contemporary issues of public concern in the United States and abroad. (I)

5991 Directed Study: W.S.U. - Salford Exchange. Cr. 3-9
Prereq: consent of undergraduate adviser. Open only to students admitted to Salford Exchange Program. Credit earned through approved upper division coursework at the University of Salford, England, as part of WSU-Salford Exchange Program. (F,W)

5993 (WI) Writing Intensive Course in Anthropology. Cr. 0
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: ANT 5310, 5320, or
5996 taught by full-time faculty member. Offered for S and U grades only. No degree credit. Required for majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a course designated as a corequisite. See section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing-Intensive Course in the Major requirement. Within first three weeks of enrollment in corequisite course, student must notify instructor of enrollment in ANT 5993. (T)

5996 Capstone Seminar in Anthropology. Cr. 3
Prereq: upper division or graduate standing. Required for majors. Review and integrate central practices and theories in anthropology through discussion of the four major subfields and applied areas of anthropology. Special attention will be given to new developments in the different fields. Recommended for new graduate students without extensive background in anthropology; also open to those outside anthropology who desire a thorough view of research areas and theoretical perspectives in anthropology. (Y)

6080 (ENG 5600) Studies in Folklore. Cr. 3
Prereq: ENG 2280 or ENG 3600 or ENG 4650 or ANT 2100 or consent of instructor. Use of folklore in literature; field work; analysis of collected oral literature; study of separate genres of oral literature and analysis of parallel texts. Topics to be announced in Schedule of Classes. (I)

6230 Cultures of Subsaharan Africa. Cr. 3
Prereq: ANT 2100 or SOC 2010 or consent of instructor. Subsaharan African cultures and societies; emphasis on both complex and simple political systems. (I)

6290 Culture Area Studies. Cr. 3 (Max. 9)
Prereq: ANT 2100 or 5200 or SOC 2010 or consent of instructor. Culture and social changes. Origins and functional relationships, regional variation in population, settlement, culture contact, religion, migration, social institutions. Topics to be announced in Schedule of Classes. (I)

6300 Anthropological Theory I. Cr. 3
Required for first-year graduate students. Examination of some major debates in anthropology in historical and contemporary perspective; continuities and breakthroughs. (Y)

6310 Anthropological Theory II. Cr. 3
Prereq: ANT 6300. Required for first-year Ph.D. students. Continuation of ANT 6300. (Y)

6360 (HIS 7860) Oral History: A Methodology for Research. (LIS 7770) Cr. 3
Oral history as a methodology for research. Interviewing procedures and techniques of indexing, transcribing, and analyzing historical content of oral history interviews. (I)

6370 Symbolic Anthropology. Cr. 3
Human ability to create symbols to communicate. Oral tradition and myth; utopia and uchronia and the imaginary construction of the world; art and the eschatological discourse. (Y)

6420 Economic Anthropology. Cr. 3
Prereq: ANT 6300 or 6310 or 5200. Use of economic analysis in anthropology. Difference between Western and non-Western economies and economic models; methods of analysis of non-Western economies and non-rationalized sectors of Western economies. (B)

6450 Culture, Health Policy and AIDS. Cr. 3
Prereq: ANT 2100 or consent of instructor. Interface of cultural, scientific and political factors in the formation of health policy. Focus on specific health problem (e.g., AIDS, aging); analysis of social construction of the problem, and political and medical aspects. (Y)

6510 The Inca and their Ancestors. Cr. 3
Prereq: ANT 2100, 3200, or consent of instructor. Study of precolombian cultures of South America. Archaeological and ethnohistorical data beginning with the Inca; foundations of Inca civilization; major cultures from different regions and periods in South American prehistory. (B)

6550 Practicum in Archaeology. Cr. 2-4 (Max. 8)
Prereq: ANT 5270 or 5280, or consent of instructor. Emphasis on application of theory, practice, and research. Topics include: cultural resource management, ceramic analysis, settlement pattern studies, materialities, historical archaeology, archaeological data management. (Y)

6650 Studies in Physical Anthropology. Cr. 2-4 (Max. 12)
Prereq: ANT 2110 or consent of instructor. Selected topics in physical anthropology. Topics to be announced in Schedule of Classes. (I)

6680 Studies in Cultural Anthropology. Cr. 2-4 (Max. 12)
Prereq: ANT 2100 or 5200 or consent of instructor. Selected topics in cultural anthropology. Topics to be announced in Schedule of Classes. (I)

6700 Topics in Medical Anthropology. Cr. 3
Prereq: ANT 2100 or consent of instructor. New and emerging topics in medical anthropology or topics presented by visiting faculty in areas of theory, practice, and methodology. (B)

6710 Medical Anthropology: Alcohol/Drug Use and Abuse. Cr. 3
Prereq: ANT 2100 or consent of instructor. Biological and cultural aspects of alcohol and drug use and abuse considered in the context of medical anthropology and its theory, practice and research. (Y)

6992 Field Practicum in Business/Industrial Anthropology. Cr. 2-8
Prereq: consent of instructor. Students gain firsthand experience in conceptualizing, conducting, and/or implementing applied research in business/industrial organizations. (F,W)
ART HISTORY

Office: 150 Art Building, 450 Reuther Mall; 577-2980
Interim Chairperson: Charles J. Stivale
Undergraduate Adviser: Paul Clemens
Slide Collection Curator: Sarah Miller
Exhibition Curator: Sandra Dupret
Art Studio Supervisor: Todd Mitchell

Professors
John G. Hegarty, Marion E. Jackson, Robert J. Martin, James Nawara, Thomas C. Parish, Melvin Rosas

Associate Professors
Jeffrey Abt, Pamela DeLaura, Thomas P. Fitzgerald, Urban Jupena, Nancy Locke, Brian Madigan, Judith Moldenhauer, James M. Raymo, Stanley L. Rosenthal, Peter Williams, Joseph B. Zajac, Marilyn Zimmerman

Assistant Professors
Sarah Bassett, Tammy Evans, Margaret Franklin, Brian Kritzman, Evan Larson, John Richardson

Lecturers
Rayneld Johnson, Dennis Robare, Susan Widawski

W. Hawkins Ferry Endowed Chair in Twentieth Century Art History and Criticism
Dora Apel

The discipline of art history is one of the few academic subjects that gives a student a profound understanding of both Eastern and Western civilizations over a 5,000-year period. Students of art history become more visually aware of their surroundings and learn to appreciate, analyze, and critically appraise works of art. Aside from gaining visual acuity, the student of art history learns to understand art as an outgrowth of specific historic societies, for works of art reflect more accurately than written texts the complex socio-cultural, political, economic and psychological dynamics of a culture. In addition, the purpose of art history is to train students for professional roles as art history teachers on the high school and college level, and to prepare them to assume curatorial, educational, and administrative roles in museums and art galleries.

Degree Programs
BACHELOR OF ARTS with a major in art history

*MASTER OF ARTS with a major in art history

Students may elect to earn the Bachelor of Arts degree with a major in art history from either the College of Liberal Arts, or the College of Fine, Performing and Communication Arts. Those electing to earn the degree from the College of Liberal Arts must fulfill all requirements for undergraduate degrees in this College (see page 223).

For information relative to Admission and Degree Requirements and for Courses of Instruction, see the Department of Art and Art History, College of Fine, Performing and Communication Arts; page 178.

Students who elect to earn their degrees or certificates in the College of Liberal Arts should consult the Advisor in Art History, 150 Art Building, 450 Reuther Mall (577-2980), for clarification and further information.

* For specific requirements, see the Wayne State University Graduate Bulletin.

CANADIAN STUDIES

Office: 3125 Faculty/Administration Building; 577-2799
Web: http://www.cla.wayne.edu/canadianstudies/
Director: John J. Bukowczyk

Interdisciplinary Minor in Canadian Studies
Specialization in Canadian Studies is offered only as a minor concentration at Wayne State University. The program is interdisciplinary and is intended to offer students an opportunity to focus on linkages that exist between the United States and Canada. Included in the courses comprising the minor are offerings in both the social sciences and the humanities, including disciplines such as geography, political science, English, and history.

An academic minor in Canadian Studies allows students to select a major in an established discipline, while still making possible the pursuit of interests in Canada.

Students planning to minor in Canadian Studies should consult with the Canadian Studies Director at the beginning of their junior year.

Minor Requirements — eighteen credits, including:

1. P S 2700 -- Introduction to Canadian Studies (GPH 2700, HIS 2700, ENG 2670): Cr. 3

2. Core electives (minimum of nine credits, three courses), from:
   - HIS 3450 -- Canadian American Relations: Cr. 3
   - GPH 5700 -- Urban Canada (UP 5700): Cr. 4
   - GPH 5750 -- Social and Economic Geography of the U. S. & Canada: Cr. 4
   - GPH 6350 -- Ethnic Groups in the United States and Canada: Cr. 4
   - MKT 7600 -- The North American Economy: Cr. 3
   - P S 5510 -- Political Culture in Modern North America: Cr. 4

Other cognates:
   - ANT 3530 -- Native Americans: Cr. 3
   - ANT 6500 -- North American Prehistory: Cr. 3
   - ENG 2600 -- Introduction to Folklore: Cr. 3
   - ENG 5460 -- Topics in American Lit. of 20th Century: Robertson Davies: Cr. 3
   - P S 3840 -- American Foreign Policy and Administration: Cr. 4

Note: Additional core electives and cognates may be taken at the University of Windsor, Ontario, chosen from a list of Canadian Studies courses which is available from the Canadian Studies adviser.

College of Liberal Arts 241
CLASSICS, GREEK, and LATIN

Office: 431 Manoogian Hall; 577-3032
Chairperson: Kenneth R. Walters
Website: http://www.cla.wayne.edu/CGL/CGLhome.html

Professors
Kathleen McNamee, Richard W. Minadeo (Emeritus)

Associate Professors
Ernest J. Ament (Emeritus), Joel B. Itzkowitz, Michele V. Ronnick, Jennifer A. Sheridan, Kenneth R. Walters

Lecturer
Vasilios Kosmidis

Degree Programs
BACHELOR OF ARTS with a major in Classics

*MASTER OF ARTS with a major in Classics

This department offers courses and programs of instruction in Latin and Greek (both ancient and modern) as well as the cultures and the literatures of these languages in English translation. These studies have been the basis of Western civilization and education for over two thousand years. Because of the importance of this heritage for a wide variety of academic disciplines, Classics majors receive excellent preparation for a variety of careers: business, law, teaching at the high school or university level, library and information science, museum practice, political science, medicine and the health sciences (when combined with science study); or non-academic fields such as government, publishing, tourism and business, where intelligence and a broad liberal education are valued. The Department offers programs of both major and minor standing as well as cognate work for majors in other departments, to provide other perspectives.

Bachelor of Arts Degrees

Admission requirements for this program are satisfied by the requirements for undergraduate admission; see page 15.

A student who wishes to major or minor in the Department should plan his/her program with the Departmental undergraduate adviser as soon as possible after entering the University. Each program is arranged to satisfy each individual student's interests and purposes, whether they be to combine majors and minors for teacher certification, to acquire language skills needed for technical work in other areas of study, to enrich professional background, or to broaden general cultural development.

DEGREE REQUIREMENTS: Students must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 223), as well as the major requirements cited below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

* For specific requirements, see the Wayne State University Graduate Bulletin.

MAJOR REQUIREMENTS IN CLASSICS: A major in Classics consists of one of the following:

A concentration in Ancient Greek, requiring twenty-eight credits in Ancient Greek (exclusive of Greek 1010 and 1020) and any two Classics courses at the 2000-level or above. Potential majors are also encouraged to elect Classics 1010 (Classical Civilization) during their freshman or sophomore year. Recommended cognates are listed below.

A concentration in Latin, requiring twenty-eight credits in Latin (exclusive of Latin 1010 and 1020) and any two Classics courses at the 2000-level or above. Potential majors are also encouraged to elect Classics 1010 (Classical Civilization) during their freshman or sophomore year. Recommended cognates are listed below.

A concentration in both Ancient Greek and Latin, requiring twenty to twenty-four credits in either Ancient Greek or Latin (exclusive of Greek or Latin 1010 and 1020), plus sixteen credits of course work in the other language. Potential majors are also encouraged to elect Classics 1010 (Classical Civilization) during their freshman or sophomore year. Recommended cognates are listed below.

A concentration in Classical Civilization, requiring Greek or Latin 2010, four Classics courses from Classics 2000 and above, Art History 5200 (Early Greek Art) and 5210 (Hellenistic and Roman Art), History 5330 (History of Ancient Greece) and 5340 (History of Ancient Rome), or Philosophy 2100 (Ancient and Medieval Philosophy). In addition, two courses from the following electives are required:

Anthropology 3200 -- (HS) Lost Cities and Ancient Civilizations: Cr. 3
Anthropology 5270 -- Introduction to Archaeology: Cr. 3
Anthropology 5310 -- Language and Culture: Cr. 3
Art History 3070 -- Art & Archaeology of Ancient Egypt: Cr. 3
Art History 5220 -- Ancient Greek Architecture: Cr. 3
Art History 5250 -- Ancient Rome: Cr. 3
Art History 5260 -- Classical Greek Art: Cr. 3
Art History 5300 -- Early Christian Art and Architecture: Cr. 3
Art History 5310 -- The Ancient City of Athens: Cr. 3
Art History 5320 -- Classical Architecture in Britain & U. S.: Cr. 3
Classics 2000 -- Greek Mythology: Cr. 3-4
Classics 2100 -- (PL) Classical Origins of Western Thought: Cr. 3
Classics 3100 -- Law and Ancient Society: Cr. 3-4
Classics 3190 -- Women in Classical Antiquity
Classics 3250 -- The Ancient City: Cr. 3-4
Classics 3350 -- Plutarch: Lives: Cr. 3
Classics 3999 -- Further Studies in Mythology: Cr. 3
Greek 2600 and above; Greek 1010-1020 if Latin is major language
Greek 3710 -- (FC) Modern Greek Literature and Culture: Cr. 3
History 3310 -- History & Civilization of the Ancient Near East I: Cr. 3
History 5330 -- History of Ancient Greece: Cr. 3
History 5340 -- History of Ancient Rome: Cr. 3
History 5550 -- The Hellenistic Period: Cr. 3
Latin 2600 and above; Latin 1010-1020 if Greek is major language
Near Eastern Studies 2100 -- The Bible and Ancient Mythology: Cr. 3
Philosophy 5410 -- Plato: Cr. 4
Philosophy 5420 -- Aristotle: Cr. 4
Communication (COM) 2190 -- Rhetoric in Western Thought: Cr. 3

Recommended Cognate Courses: All majors in the fields covered by the Department are strongly urged to take as much work as possible in the literatures of other languages, including English, as well as:

Anthropology 5310 -- Language and Culture: Cr. 3
Art History 5200 -- Early Greek Art: Cr. 3
Art History 5210 -- Hellenistic and Roman Art: Cr. 3
Art History 5220 -- Ancient Greek Architecture: Cr. 3
Art History 5300 -- Early Christian Art and Architecture: Cr. 3
Art History 5310 -- The Ancient City of Athens: Cr. 3
Classics 2000 -- Greek Mythology: Cr. 3-4
Classics 2100 -- (PL) Classical Origins of Western Thought: Cr. 3

242 College of Liberal Arts
A concentration in both Ancient Greek and Latin, consisting of twelve to sixteen credits in either Ancient Greek or Latin, exclusive of Greek or Latin 1010 and 1020, plus twelve credits in the other language. Recommended cognates are CLA 1010, CLA 2000, and CLA 2200, as well as those listed above for majors in the Department.

Minor Requirements in Classical Civilization: A minor in Classical Civilization consists of twenty-three to twenty-six credits distributed as follows:
1. Greek or Latin 1010 and 1020 (eight credits).
2. Two Classics courses, from CLA 2000 or above (six to eight credits).
3. Art History 5200 (Early Greek Art) or 5210 (Hellenistic and Roman Art) (three credits).
4. History 5330 (History of Ancient Greece or 5340 (History of Ancient Rome) (three credits).
5. Philosophy 2100 (Ancient and Medieval Philosophy) (three credits).

Minor Requirements in Modern Greek Studies: A Minor in Modern Greek Studies consists of six courses distributed as follows: four courses in Modern Greek language including the sequence GRK 11101, 11201, 21101, 2610, plus one course in Modern Greek language or culture at the 3000-level or above, plus one elective course in Classics selected from among CLA 2000, 2100, 2200, 3100, 3190, 3250, 6260; HIS 5330, 5350; PHI 2100, 5410, and 5420.

Foreign Language Group Requirement

The student may satisfy the Foreign Language Group Requirement (see page 200) by completing the third course of the elementary language sequence of either Ancient or Modern Greek or Latin, or by a special examination through which one might place out of the requirement. Students continuing the study of any of the above languages begun in high school or in another college should consult with their Department undergraduate adviser to determine the level of study at which to continue in the Department (phone: 577-3032).

The satisfaction of the Liberal Arts Foreign Language Group Requirement also satisfies the University General Education Foreign Culture (FC) Requirement.

University General Education Requirements and College of Liberal Arts Group Requirements

As noted above, satisfaction of the College of Liberal Arts Foreign Language Group Requirement also satisfies the Foreign Culture Requirement of the University General Education Program. Modern Greek 3710 also satisfies the Foreign Language Group Requirement. Classics 1010, 2100, and 2200 satisfy the Philosophy and Letters portion of the University General Education Program and of the College Humanities Requirement; and Classics 2000 satisfies the College of Liberal Arts Civilizations and Societies Requirement.

Scholarships

Modern Greek Studies Scholarship: The Ministry of Culture and Science of the Hellenic Republic annually makes available one scholarship to a student of Modern Greek language and literature. The purpose of the scholarship is to enable the student to acquire a first-hand knowledge of Greece, its people and their way of life, and to establish personal contacts with cultural and scientific figures in Greece. The annual summer program includes tours of archaeological sites in Greece, visits to some of the Aegean Islands and attendance at such cultural events as the Epidaurus Festival and the Athens Festival. Written applications are due in the month of March. For further information, consult with the instructor in charge of the Modern

1. Students who place out of one or more of the introductory Greek courses must take a corresponding number of additional electives, including any GRK course.
See also page 227, above, and the section on the Office of Scholarships and Financial Aid, page 20.

UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

CLASSICS IN ENGLISH TRANSLATION COURSES (CLA)

NOTE: All of the Classics courses listed below are taught in English translation, with no knowledge of Greek or Latin required.

1010 (PL) Classical Civilization. Cr. 3-4
Survey of the culture and civilization of Ancient Greece and Rome, in particular those aspects that laid the political, social, and cultural framework of the modern world. (T)

2000 Greek Mythology. Cr. 3-4
Typical myths related to religion, custom, ethics, philosophy, art, literature. (Y)

2100 (PL) Classical Origins of Western Thought. (HON 2100) Cr. 3
Prereq.: for Honors students: 3.3 cumulative g.p.a. (3.5 g.p.a. for entering freshmen). Classical foundations of contemporary Western Thought. Topics include: relations between the sexes, democracy, slavery, war, social criticism, rationality, relations between parents and children, literature and performing arts. (I)

2200 (PL) Introduction to Greek Tragedy. Cr. 3-4
Dramatic and literary qualities of representative plays of Aeschylus, Sophocles, and Euripides. The origin and development of Greek tragedy related to the enduring quality and contemporary relevance of these dramas. (I)

3010 The Book. Cr. 1
History of writing and publication in the Classical world of the Ancient Greeks and Romans, focusing on interrelated activities of authors, scribes, and readers. (B)

3030 Caesar: Writer and Soldier. Cr. 1
Prereq.: CLA 1010, HIS 1100, or equiv. Life of C. Julius Caesar examined through structured reading in English of significant sources. (B)

3100 Law and Ancient Society. Cr. 3-4
Law systems of ancient Greece and Rome; law codes of Solon and of the Twelve Tables. Issues include: family law, rights of women and children, interpersonal relations; judges, juries, and courtroom procedure. Students study actual cases from ancient times. (B)

3190 Topics on Women in Antiquity. Cr. 3 (Max. 6)
Topics on roles of women and views of gender and sexuality in ancient Greece and Rome, drawn from fields such as literature, art, drama, and law. (B)

3250 The Ancient City. (CLA 6250) Cr. 3-4
Infrastructure, architecture, planning, and social and political forces that shaped Rome and other great cities of the ancient world. (B)

3300 Coins and Coinage of the Ancient Greeks and Romans. Cr. 1-2
Origin and uses of coined money in the Greco-Roman world; economic, social, political, cultural impact of coinage on Greek and Roman civilization from the Sixth Century C.E. to the end of Second Century C.E. (B)

3350 Plutarch's Lives of the Noble Greeks and Romans. (CLA 5350) Cr. 3
Structured exploration of Plutarch's Parallel Lives in translation. (B)

3600 Religious Experience Among the Ancient Greeks and Romans. (CLA 5600) Cr. 3
CLA 5600 open only to graduate students. Polytheism among the Greeks and Romans. Topics include: sacrifice, prayer and supplication, festivals, burial, healing, priests and priesthood, temples and sacred sites, divination and extispicy, ruler cult, religion and politics. (B)

3930 Topics in Classical Civilization. Cr. 1-4 (Max. 8)
In-depth study of some aspects of Greek and Roman civilization. Topics to be announced in Schedule of Classes. All readings in English. (Y)

3999 Further Studies in Mythology. (CLA 6260) Cr. 3 (Max. 6)
Prereq.: CLA 2000 or GER 1700 or equivalent introductory mythology course in any other department or consent of instructor. A more in-depth study of mythology with special reference to particular classical myths or theories. (I)

5100 Law and Ancient Society. Cr. 3
Law systems of Ancient Greece and Rome. Law codes of Solon and of the Twelve Tribes. Issues include: family law, rights of women; courtroom procedure. Study of actual cases from antiquity. (B)

5190 Topics on Women in Antiquity. Cr. 3 (Max. 6)
Topics on roles of women and views of gender and sexuality in ancient Greece and Rome, drawn from literature, art, drama, and law. (I)

5200 Special Studies. Cr. 1-4 (Max. 8)
In-depth study of some aspect of Greek and Roman civilization. Topics may be drawn from the fields of literature, archaeology, art and history, and will be announced in Schedule of Classes. All readings in English. (I)

5250 Greek and Roman Drama. Cr. 3-4
Critical interpretations of Greek and Roman tragedy and comedy, including: Aeschylus, Sophocles, Euripides, Aristophanes, Menander, Plautus, Terence, and Seneca. Historical development of theatre design and dramatic staging. (I)

5350 Plutarch's Lives of the Noble Greeks and Romans. (CLA 5350) Cr. 3
Structured exploration of Plutarch's Parallel Lives in translation. (B)

5750 (ENG 5750) Theories of Second Language Acquisition. (FRE 5750) (GER 5750) (ITA 5750) (LIN 5750) Cr. 3
Investigation of theories in second language acquisition. Review of research in development of second language competence: acquisition of phonology, lexicon, semantics, syntax, discourse, and pragmatics. (B)

5810 (FRE 5810) Teaching Foreign Languages: Receptive Skills. (CLA 7810) (FRE 7810) (GER 5810) (GER 7810) Cr. 3
Prereq.: CLA 5850 or consent of instructor. Latest research on acquisition of reading and listening skills in a foreign language. Difference
between receptive and productive language use; how methods of foreign language teaching treat the instruction of the receptive skills. (B)

5820 (FRE 5820) Teaching Foreign Languages: Productive Skills. (CLA 7820) (FRE 7820) (GER 5820) (GER 7820) Cr. 3
Prereq: CLA 5850 or consent of instructor. Current research on acquisition of speaking and writing skills in a foreign language. Difference between productive and receptive language use; how various methods of foreign language teaching treat the instruction of productive skills. (B)

5830 (GER 5830) Technology in the Foreign Language Classroom. (CLA 7830) (FRE 5830) (FRE 7830) (GER 7830) Cr. 3
Prereq: CLA 5850 or consent of instructor. Types of current technology; review of research on effectiveness of language classroom technologies; evaluation of technologies; development of activities for use in classroom. (B)

5850 (GER 5850) Second Language Instruction: Theory and Methods. (CLA 7850) (FRE 5850) (FRE 7850) (GER 7850) Cr. 3
Theoretical basis of second language teaching models; historical overview of methodologies; current trends in teaching of reading, writing, listening, speaking, and culture. Implications of methodology on materials, classroom techniques, and testing. (B)

5860 (GER 5860) Foreign Language Testing. (CLA 7860) (FRE 5860) (FRE 7860) (GER 5860) Cr. 3
Prereq: CLA 5750 or consent of instructor. Means of assessing students' knowledge of a foreign language. Topics include: ACTFL Oral Proficiency Interview; testing of reading, writing speaking and listening skills; means of testing grammar and culture; testing as it relates to program goals. (Y)

5993 (WI) Writing Intensive Course in Classical Civilization. Cr. 0
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: any CLA, LAT, or GRK course numbered 3000 or higher which satisfies major requirement. Offered for S and U grades only. No degree credit. Required for all majors. Grade in CLA 5993 is independent of grade in corequisite course. Disciplined writing assignments under the direction of a faculty member. Must be selected in conjunction with a designated corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. (T)

6250 The Ancient City. (CLA 6250) Cr. 3-4
Prereq: graduate standing. Infrastructure, architecture, planning, and social and political forces that shaped Rome and other great cities of the ancient world. (B)

6260 Further Studies in Mythology. (CL 6260) Cr. 3 (Max. 6)
Prereq: CLA 2000 or GER 1700 or equivalent introductory mythology course in any other department, or consent of instructor. An in-depth study of mythology with special reference to particular classical myths or theories of myth. (I)

GREEK COURSES (GRK)

Ancient Greek

1010 Elementary Ancient Greek I. Cr. 4
Basic vocabulary, forms, grammar, and introduction to ancient Greek culture. (Y)

1020 Elementary Ancient Greek II. Cr. 4
Prereq: GRK 1010. Continuation of GRK 1010 with increasing emphasis on reading ability. (Y)

2010 (FC) Intermediate Ancient Greek. Cr. 4
Prereq: GRK 1020. Readings in Ancient Greek from representative authors such as Plato, Lysias, Euripides, and others. (Y)

2600 Homer. Cr. 4
Prereq: GRK 2010 or equiv. or consent of instructor. Reading of selected passages from the Iliad or the Odyssey; study of fundamentals of Homeric Greek. (I)

5000 Ancient Greek for Graduate Students. Cr. 1-3 (Max. 3)
Prereq: written consent of graduate adviser. Introduction to basic vocabulary, forms and grammar of classical Greek leading to the reading of continuous Greek prose passages. Offered in conjunction with GRK 1010 or GRK 1020. (T)

5100 Greek Prose Composition. Cr. 2
Prereq: GRK 2600 or equiv. or consent of instructor. Practice in the essentials of writing idiomatic and stylistic Greek prose. Supplementary readings in Greek for imitation. (I)

5500 Greek Historians. Cr. 4
Prereq: GRK 2600 or equiv., or consent of instructor. Prose style and historiographic techniques of ancient historians; selections from Herodotus, Thucydides, Xenophon, and Polybius. (I)

5600 Epic Poetry. Cr. 4
Prereq: GRK 2600 or consent of instructor. Study in ancient Greek of Homer, Hesiod, Apollonius Rhodius and others. Theory of oral vs. literary composition, the Homeric question, metrics. (I)

5990 Directed Study. Cr. 1-4 (Max. 8)
Prereq: undergrad., written consent of chairperson; grad., consent of chairperson and graduate officer. (T)

Modern Greek

1110 Elementary Modern Greek I. Cr. 4
Training in pronunciation, conversation and reading; introduction to the culture of Greece today. Material fee as indicated in the Schedule of Classes. (F)

1120 Elementary Modern Greek II. Cr. 4
Prereq: GRK 1110 or equiv. Continuation of GRK 1110. Material fee as indicated in the Schedule of Classes. (W)

2110 (FC) Intermediate Modern Greek I. Cr. 4
Prereq: GRK 1120 or equiv. Review of grammar, practice in oral and written modern Greek, based on readings in modern Greek literature. Material fee as indicated in the Schedule of Classes. (F)

2610 Intermediate Modern Greek II. Cr. 4
Prereq: GRK 2110 or equiv. Special attention to vocabulary enrichment and writing compositions. Class conversation based on reading of cultural materials and short stories. Translation exercises from English to Greek; study of appropriate grammar rules. (W)

3710 (FC) Modern Greek Literature and Culture in English. Cr. 3
No knowledge of modern Greek required for this course; all readings in English translation; satisfies humanities group requirement; does not satisfy foreign language requirement. Survey of the culture and civilization of modern Greece through a study of their literature, customs, festivals and popular art. (I)

5110 Modern Greek for Graduate Students. Cr. 1-3
Prereq: written consent of graduate adviser. Vocabulary and grammar of modern Greek. Emphasis on conversation, reading and writing. (T)

College of Liberal Arts 245
LATIN COURSES (LAT)

1010 Elementary Latin I. Cr. 4
Prereq: LAT 2600 or equiv. or consent of instructor. Basic vocabulary, forms, grammar, and introduction to the culture of the ancient Romans. (Y)

1020 Elementary Latin II. Cr. 4
Prereq: LAT 1010. Continuation of LAT 1010, with increasing emphasis on reading ability. (T)

2010 (FC) Intermediate Latin. Cr. 4
Prereq: LAT 1020. Representative selections of Latin prose and poetry. (T)

2600 Introduction to Latin Literature. Cr. 4 (Max. 8)
Prereq: LAT 2010 or equiv. or consent of instructor. Selections from Latin prose authors and poets. (Y)

3150 Cicero. Cr. 4
Prereq: LAT 2010 or 2600 or equiv. Selections from the basic philosophical and rhetorical writings of Cicero and from his letters. (I)

3210 Latin Poetry. Cr. 4
Prereq: LAT 2600 or equiv. or consent of instructor. Intermediate-level course for reading representative samples of poetry by prominent Latin authors. (F)

3220 Latin Prose. Cr. 4
Prereq: LAT 2600 or equiv. or consent of instructor. Intermediate-level course for reading representative samples of prose by Latin authors. (W)

5000 Latin for Graduate Students. Cr. 1-3 (Max. 3)
Prereq: written consent of graduate adviser. Basic vocabulary, forms and grammar of Latin leading to the reading of continuous Latin prose passages. (T)

5810 Roman Historians. Cr. 4
Prereq: LAT 2600 or equiv. or consent of instructor. Selected readings from Tacitus, Livy, Caesar or Sallust illustrating the Roman rhetorical and ethical analysis of republican and imperial history. (I)

5850 Epic. Cr. 4
Prereq: LAT 2600 or equiv. or consent of instructor. Readings in Latin of the works of epic poets such as Ennius, Vergil, Lucan, Statius and others. (I)

5990 Directed Study. Cr. 1-4 (Max. 8)
Prereq: undergrad., written consent of chairperson; grad., written consent of chairperson and graduate officer. (T)

6500 Roman Epistolography. Cr. 4
Prereq: LAT 2600 or equiv. or consent of instructor. Social, literary, and historical significance of the letters of such writers as Cicero, Pliny and Seneca. (I)

6820 Roman Rhetoric. Cr. 4
Prereq: LAT 2600 or equiv. or consent of instructor. Study of Roman rhetorical theory and practice. (I)

6840 Roman Drama. Cr. 4
Prereq: LAT 2600 or equiv. or consent of instructor. Study of Roman comedy and tragedy through study of comedies of Plautus or Terence, or tragedies of Seneca. Studies in the early history of Roman drama may include readings in the literary remains of Accius, Pacuvius, and Naevius. (I)

6890 Roman Satire. Cr. 4
Prereq: LAT 2600 or equiv. or consent of instructor. Readings in the works of satirists such as of Horace, Persius and Juvenal. (I)

CRIMINAL JUSTICE

Office: 2305 Faculty/Administration Building; 577-2705
Interim Chairperson: Marvin Zalman
Academic Services Officer: Marianka Holloway
Website: http://www.cla.wayne.edu/crimjust

Professors
Steven Stack, Marvin Zalman

Associate Professor
Thomas M. Kelley

Assistant Professor
Brad Smith

Lecturer
Michael Swope

Adjunct Faculty
Michael Falvo, Michael Kusluski, Thomas Martinelli, John O’Neill, Monique Patterson, Janet Prater, Brent Triest, Stephen White, James Windell, Jean Wynn

Degree Programs
BACHELOR OF SCIENCE in Criminal Justice

*MASTER OF SCIENCE in Criminal Justice

Criminal Justice is organized society’s primary formal means of social control. Generally, it is the practice of public and private agencies and groups which seek to prevent, control, adjudicate, punish, correct, and defend juvenile delinquents, criminal suspects, and convicted offenders. The core of the criminal justice system is comprised of police agencies, prosecutors, defense attorneys, courts, and correctional agencies. This system enforces federal and state laws and provides numerous other services. Criminal justice is part of a larger administration of justice complex which involves court administration, juvenile justice, and public and private security.

The study of criminal justice begins with analysis of the entire justice system as a force for social order. Advanced study inquires into the political, organizational, social and behavioral aspects of various components of the criminal justice system. Research courses give students the tools with which to independently analyze criminal justice and skills important for career development. Legal courses foster an awareness of the values of due process and the limits of governmental power in a democratic society.

Career opportunities in criminal justice include roles as police officers, supervisors, and executives; criminal justice investigators working for public defenders, prosecutors, fire departments, and insurance companies; correctional officers for whom a college degree is mandatory, such as probation officers, parole officers, and community corrections specialists. Other specialized roles in criminal justice include juvenile intake officers, juvenile probation officers, volunteer administrators, criminologists, forensic scientists, forensic psychologists, medical examiners, and policy analysts.

* For specific requirements, see the Wayne State University Graduate Bulletin.
Bachelor of Science in Criminal Justice

The Bachelor of Science program is structured to meet the highest educational standards of the Academy of Criminal Justice Sciences. Required courses expose a criminal justice major to all aspects of the justice system and foster a systemic view rather than a specialization in a single component of this field. Within this broad framework, courses which deal with specific topics and pre-professional concerns are available. Practical field experience is desirable and may be arranged under the guidance of the internship coordinator.

The curriculum is designed to offer students a comprehensive education in criminal justice: it provides a fundamental understanding of the criminal justice system together with skills and knowledge useful in pursuing professional careers in justice administration. The emphasis of the program on analytical and writing skills is consonant with the growing sophistication of criminal justice agencies. Police departments, correctional facilities, and court administrators' offices require more personnel with quantitative analytical abilities and computer skills, administrative and personal interaction skills, excellent command of English, knowledge of foreign languages, and the ability to understand legal materials.

Core courses (28 credits) include classes comprising theories of criminal behavior, criminal law, criminal justice institutions, criminal justice research methods, and the criminal justice process. Core courses in the criminal justice curriculum are designed to acquaint students with the problems of crime and deviance in American society, the major public institutions which deal with these problems, the legal foundation of criminal justice, and analytic research methods used to better understand the social and behavioral realities of criminal justice. Criminal justice majors must complete all major courses with a final grade of 'C-minus' or better and maintain a minimum 2.0 grade point average in the major.

Electives: A minimum of twelve credits must be selected for concentrated elective course work in the criminal justice field. The approved criminal justice electives provide a structured set of rigorous upper-division courses which are relevant to (1) a deeper understanding of the justice process and (2) knowledge and skills in specific career areas in the field.

Admission requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor's degree must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 23) and the College of Liberal Arts Group Requirements (see page 223), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223. It is recommended that students complete most, if not all, of the General Education Requirements before they initiate Criminal Justice major course work.

Residency Requirements: A minimum of sixteen of the twenty-eight credits in Core courses and four of the twelve credits in Elective courses must be earned at Wayne State University.

Major Requirements: It is the student’s responsibility to meet with a Criminal Justice adviser to officially file a Declaration of Major form with the Department and to identify all major requirements. Students majoring in criminal justice must complete a minimum of forty and no more than forty-six credits. A minimum of twenty-eight credits must be completed in core courses, and a minimum of twelve credits in elective courses.

I. Required Core Courses (Twenty-eight credits total)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CRJ 2000</td>
<td>Intro. to the Criminal Justice System</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>CRJ 4000</td>
<td>Criminological Theories: Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 4300</td>
<td>Corrections: Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 4600</td>
<td>The Police in America: Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 4860</td>
<td>Research Methods in Criminal Justice: Cr. 4</td>
<td></td>
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<tr>
<td>CRJ 5710</td>
<td>Constitutional Criminal Procedure: Cr. 4</td>
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</tbody>
</table>

One of the following process courses:

CRJ 4400 -- The Judicial Process: Cr. 4
CRJ 4410 -- The Juvenile Justice System: Cr. 4

II. Approved Electives (Minimum twelve credits required)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 3120</td>
<td>Politics of the Criminal Justice Process (P S 3120): Cr. 4</td>
<td></td>
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<tr>
<td>CRJ 3260</td>
<td>Investigation: Cr. 3</td>
<td></td>
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<tr>
<td>CRJ 3510</td>
<td>Introduction to Security: Cr. 4</td>
<td></td>
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<tr>
<td>CRJ 3710</td>
<td>Legal Writing: Cr. 4</td>
<td></td>
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<tr>
<td>CRJ 3750</td>
<td>Gender Issues for CRJ Professionals (W S 3750): Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 4400</td>
<td>Judicial Process: Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 4410</td>
<td>Juvenile Justice System: Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 4750</td>
<td>Criminal Justice Response to Domestic Violence: Cr. 4</td>
<td></td>
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<tr>
<td>CRJ 4800</td>
<td>Outsiders, Outcasts, &amp; Soc. Deviants (SOC 4800): Cr. 3</td>
<td></td>
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<tr>
<td>CRJ 4990</td>
<td>Directed Study: Cr. 1-3</td>
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<tr>
<td>CRJ 4998</td>
<td>Honors Thesis: Cr. 3</td>
<td></td>
</tr>
<tr>
<td>CRJ 5060</td>
<td>Comparative Criminal Justice Systems: Cr. 3</td>
<td></td>
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<tr>
<td>CRJ 5340</td>
<td>Community Based Corrections: Cr. 3</td>
<td></td>
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<tr>
<td>CRJ 5430</td>
<td>Counseling Strategies for Juvenile Offenders: Cr. 3</td>
<td></td>
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<tr>
<td>CRJ 5500</td>
<td>Social and Legal Dynamics of Child Abuse: Cr. 3</td>
<td></td>
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<tr>
<td>CRJ 5720</td>
<td>Criminal Law: Cr. 4</td>
<td></td>
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<tr>
<td>CRJ 5790</td>
<td>Topics in Justice and Law: Cr. 4</td>
<td></td>
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<tr>
<td>CRJ 5810</td>
<td>Law in Human Society (SOC 5810): Cr. 3</td>
<td></td>
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<tr>
<td>CRJ 5910</td>
<td>Seminar in Crime, Victimization, and Society: Cr. 4</td>
<td></td>
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<tr>
<td>CRJ 5994</td>
<td>Dispute Resolution (PCS 5000): Cr. 3</td>
<td></td>
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<tr>
<td>CRJ 5995</td>
<td>Special Topics: Cr. 3</td>
<td></td>
</tr>
<tr>
<td>CRJ 6000</td>
<td>Internship: Cr. 3-4</td>
<td></td>
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<tr>
<td>CRJ 6750</td>
<td>Administrative Law in Criminal Justice: Cr. 3</td>
<td></td>
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<tr>
<td>CRJ 6860</td>
<td>Organized Crime (SOC 6860): Cr. 3</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL DEGREE PROGRAM CREDITS: 40

Writing Intensive (WI) Course in Criminal Justice (CRJ 5993):

Students majoring in criminal justice must register for CRJ 5993 and coregister in the same term for one of the following courses (with the instructor’s consent): CRJ 3120, 3260, 3510, 3710, 3750, 4000, 4300, 4400, 4410, 4600, 4750, 4860, 4990, 4998, 5060, 5340, 5430, 5500, 5710, 5720, 5995, 6000.

Minor and Other Study

Minor in Criminal Justice: The Department offers a minor in Criminal Justice for which the notation of a minor appears on the student's transcript. The required Criminal Justice courses are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 2000</td>
<td>Introduction to the Criminal Justice System: Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 4300</td>
<td>Corrections: Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 4400</td>
<td>The Judicial Process: Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 4600</td>
<td>The Police in America: Cr. 4</td>
<td></td>
</tr>
<tr>
<td>CRJ 5710</td>
<td>Constitutional Criminal Procedure: Cr. 4</td>
<td></td>
</tr>
</tbody>
</table>

Criminal Justice Elective: Cr. 3-4

TOTAL CREDITS: 23-24

Students wishing to minor in criminal justice are encouraged to visit the Departmental Offices for information and counseling. A minor must be declared prior to filing for graduation.

Pre-Law Advising and Curriculum: Students wishing to major or minor in criminal justice and who are considering legal careers should notify the Department’s adviser at the beginning of their junior year and arrange a conference with a pre-law adviser. For non-
majors wishing to take a pre-law sequence of courses in criminal jus-
tice the following are recommended:

CRJ 2000 -- Introduction to the Criminal Justice System: Cr. 4
CRJ 3260 -- Investigation: Cr. 3
CRJ 3710 -- Legal Writing: Cr. 4
CRJ 4400 -- Introduction to the Judicial Process: Cr. 4
CRJ 5710 -- Constitutional Criminal Procedure: Cr. 4
CRJ 5720 -- Criminal Law: Cr. 4
CRJ 5790 -- Topics in Justice and Law: Cr. 4

Graduate Study: Graduating seniors who are planning graduate
study in criminal justice may qualify to complete approved course
work toward the Master of Science in Criminal Justice degree under
the AGRADE or the Senior Rule provision.

AGRADE Program: The College of Liberal Arts Accelerated Gradu-
ate Enrollment (AGRADE) Program allows qualified seniors to apply
a maximum of fifteen credits toward both the Bachelor of Science
and Master of Science in Criminal Justice degrees. Qualifications for
AGRADE include Senior status and a minimum major g.p.a. of 3.6.
For additional eligibility information, interested students should con-
tact the Criminal Justice Academic Services Officer (577-0772).

Senior Rule Study: Minimum requirements for Senior Rule study include:
a 3.0 grade point average for the junior and senior years of
study, and at least one (but not more than ten) credits remaining to
be completed for the undergraduate degree. Additional limitations
and requirements apply for this status and for continuing graduate
study in criminal justice. Interested seniors should consult with their
undergraduate adviser for further information.

Transfer Credit: Students should consult with a Criminal Justice
adviser to determine the applicability of transfer credits toward the major.

A more complete discussion of the Master of Science in Criminal
Justice degree program appears in the Wayne State University Gradu-
ate Bulletin.

Honors in Criminal Justice

The Honors Program in Criminal Justice is open to students of supe-
rior academic ability who are majoring in criminal justice. To be rec-
ommended for an honors degree from this department, a student
must maintain a cumulative grade point average of at least 3.3. He/
she must accumulate at least twelve credits in honors-designated course
work from various departments in the College, including hon-
ors requirements within Criminal Justice, and including at least one
4000-level Honors Program seminar (consult the Schedule of Classes under 'Honors Program'). The Honors student must demon-
strate the ability to do an original Honors Thesis during the senior
year. For information about the requirements of the department's honors curriculum, contact the Criminal Justice Honors Director (577-
2705).

UNDERGRADUATE COURSES (CRJ)

The following courses, numbered 0900-6999, are offered for under-
graduate credit. Courses numbered 7000-9999, which are offered for
graduate credit only, may be found in the graduate bulletin. Courses in
the following list numbered 5000-6999 may be taken for graduate
credit unless specifically restricted to undergraduate students by indi-
vidual course limitations. For interpretation of numbering system,
signs and abbreviations, see page 481.

2000 Introduction to the Criminal Justice System. Cr. 4

No credit after former CRJ 1010. Scientific method and multidisci-
plinary approach to administration, procedures, and policies of agen-
cies of government charged with enforcing the law, adjudicating
crime, and correcting criminal and deviant conduct. Response of jus-
tice system to social norms and trends; reciprocal relationship to
social behaviors and values. (T)
4800  (SOC 4800) Outsiders, Outcasts and Social Deviants. Cr. 3
Definition and characteristics of behaviors which have, at times, been considered deviant, such as: criminality, mental illness, alcoholism, drug addiction, abortion, prostitution, and pornography. Interdisciplinary theories introduced to facilitate understanding of those behaviors, their diagnosis, management, control, and prevention. (T)

4860  Research in Criminal Justice. Cr. 4
Offered for undergraduate credit only. Prereq: completion of English Proficiency requirement. Criminal justice data sources; designs for research; analysis and application of descriptive and inferential statistics in criminal justice planning and evaluation. (F,W)

4990  Directed Study. Cr. 1-3 (Max. 3)
Prereq: criminal justice major; written consent of instructor. Open only to Criminal Justice majors. Independent reading or research in a particular facet of criminal justice, culminating in an extended paper or research report prepared under direct supervision of faculty. (T)

4998  Honors Thesis in Criminal Justice. Cr. 3-6
Prereq: CRJ 4990, written consent of instructor and honors program director. Open only to Criminal Justice majors. Research problem to be completed under the direction of a faculty member. (T)

5060  Comparative Criminal Justice Systems. Cr. 3
No credit after former CRJ 6500. Selected criminal justice systems in other nations. (I)

5150  Criminalistics. Cr. 4
Application of the physical and biological sciences to criminal investigation; ballistics, fingerprints, DNA, trace evidence, drugs, arson and explosives, questioned documents, introduction to forensic anthropology, courtroom testimony, ethics. (T)

5340  Community Based Corrections. Cr. 3

5430  Counseling Strategies with Youthful Offenders. Cr. 3

5500  Social and Legal Dynamics of Child Abuse. Cr. 3
Prereq: CRJ 4410. Dynamics and psychopathology of child abuse: its incidence and impact on the family, society, and the numerous social and legal agencies involved in the detection, processing, and treatment of both child abusers and the abused. (F)

5710  Constitutional Criminal Procedure. Cr. 4
Prereq: minimum of twelve credits in criminal justice; CRJ 2000 or former 1010; completion of English Proficiency requirement. Not for graduate credit without consent of graduate program adviser. Constitutional safeguards and legal controls on governmental action. Constitutional doctrines examined: due process, equal protection of the laws, search and seizure, self-incrimination, double jeopardy, right to counsel, speedy trial, bail, cruel and unusual punishments. Topics may include: role of Supreme Court, investigation, arrest, stop and frisk, searches, electronic eavesdropping, confessions, preliminary examination, grand jury, plea bargaining, jury trial, sentencing, prisoners’ rights, death penalty. (T)

5720  Criminal Law. Cr. 4
Not for graduate credit without consent of graduate program adviser. An examination of the common law. Development of the criminal law, the general elements of crime, general defenses, principles of accountability, and the particular elements of specific crimes. (T)

5790  Topics in Justice and Law. Cr. 3-4
Prereq: junior status; 3.0 g.p.a. or above, or honors student. Legal analysis of selected topics in justice and law; rotating topics including political trials. (I)

5810  (SOC 5810) Law in Human Society. Cr. 3
Law and the legal structure in its social context. Development, enforcement, and interpretation of law; emphasis on the American governmental system. Reciprocal effects of law and the society in which it develops; comparative analysis. For pre-law, criminal justice, and political science students, as well as for sociology majors. (Y)

5910  Seminar on Crime, Victimization, and Society. Cr. 4
Prereq: CRJ 2000 (or former 1010) and 4860, or consent of instructor. Review of advanced research on crime, victimization, and society. (I)

5993  (WI) Writing Intensive Course in Criminal Justice. Cr. 0
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: CRJ 3120, 3260, 3510, 3710, 3750, 4000, 4300, 4400, 4410, 4600, 4750, 4860, 4990, 4998, 5060, 5340, 5430, 5500, 5720, 5995, 6000, or 6750. Offered for S and U grades only. No degree credit. Required for CRJ majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a course designated as a corequisite; see Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. (T)

5994  (PCS 5000) Dispute Resolution. (P S 5890) (PSY 5710) Cr. 3
Overview of the processes and actors in the field of dispute resolution including negotiation, mediation, arbitration, and conciliation. (T)

5995  Special Topics in Criminal Justice. Cr. 3 (Max. 9)
Prereq: CRJ 2000 or former 1010. No credit for repeated section. (Y)

6000  Internship. (U S 6000) Cr. 1-8 (Max. 8)
Prereq: written consent of adviser. A comprehensive internship program involving various criminal justice agencies. Placement may be made in court, corrections, police, juvenile justice, and other agencies at the federal, state, county and local levels; work opportunities include agency procedure and policy, patrol, case analysis, report writing and research. (T)

6750  Administrative Law in Criminal Justice. Cr. 3
Prereq: junior, senior or graduate level standing. Functions, powers, procedures, and constitutional limitations germane to administrative agencies and officers, with particular emphasis on those operating in the criminal justice field. (Y)
ECONOMICS

Office: 2074 Faculty/Administration Building; 577-3345
Chairperson: Jay H. Levin
Administrative Assistant: Delores G. Tennille
Website: http://www.econ.wayne.edu

Professors
Ralph M. Braid, David I. Fand (Emeritus), Thomas J. Finn, Jr. (Emeritus),
Allen C. Goodman, I. Bernard Goodman (Emeritus), Mark L. Kahn (Emeritus),
Li Way Lee, Jay H. Levin, John M. Mattila (Emeritus), John D. Owen
(Emeritus), Karl Roskamp (Emeritus), Robert J. Rossana, Stephen J. Spurr

Associate Professors
R. King Adamson (Emeritus), Kevin D. Cotter

Assistant Professors
Basma Bekdache, Sheng-Kai Chang, Tomomi Kumagai, Jee-Hyeong Park,
Emiko Usui

Adjunct Professors
Timothy M. Bates, Gail A. Jensen

Degree Programs
BACHELOR OF ARTS with a major in economics

*MASTER OF ARTS with a major in economics

*DOCTOR OF PHILOSOPHY with a major in economics
(Also see Master of Urban Planning with specialization in economics,
and Master of Arts in Industrial Relations, in the Wayne State University Graduate Bulletin)

Economists frequently describe their work as the study of how individuals and societies allocate limited resources to try to satisfy unlimited wants. Economics is a science of choices. Households and firms must decide what and how much to consume or produce and how much to pay for products and for the use of labor, land and capital. The federal government makes decisions affecting inflation and unemployment, taxation and expenditures, the monetary system and the nation's prosperity and shape the distribution of its wealth. Since every social relationship has economic aspects, an understanding of economic principles and systems is an integral part of a liberal education.

Economics majors have a wide choice of courses and careers. Many supplement their major with cognate courses to prepare for careers in business, journalism, health care administration or public service. Others find it excellent preparation for law school. Undergraduates who want to do graduate work in economics need a good mathematics background. Ph.D. graduates are in demand at universities, corporations, financial institutions and government agencies. M.A. graduates may teach at junior colleges but more typically go into business or public service.

Bachelor of Arts in Economics

Admission requirements for the College are satisfied by the general requirements for undergraduate admission to the University; see page 15, as well as the instructions for declaring a major (page 224). The Economics Department presumes as prerequisite to all economics courses at least two years of high school-level algebra and one year of geometry.

* For specific requirements, see the Wayne State University Graduate Bulletin.

DEGREE REQUIREMENTS: Candidates for the Bachelor's degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

Major Requirements: Students considering an economics major should take ECO 2010 and 2020 as soon as possible. They should also pass MAT 1500 or 1800 prior to the junior year or demonstrate eligibility for MAT 2010 in the mathematics qualifying examination. A major consists of thirty-two credits in economics. These must include Economics 2010 and 2020 (Principles of Microeconomics and Macroeconomics), Economics 5000 and 5050 (Intermediate Microeconomics and Macroeconomics), and Economics 5100 (Introductory Statistics and Econometrics). The Department recommends that majors complete all of these courses by the end of their junior year.

Majors must elect at least three courses in two or more of these fields: industrial organization, international economics, labor and human resources economics, public finance, money and banking, and urban and regional economics. Each student should consult his/her major adviser to choose the economics electives best suited to his/her intellectual and professional aims.

Majors must satisfy the following residency requirement: at least sixteen credits of the thirty-two credits required for the major must be earned at Wayne State University.

To satisfy the General Education Major Competency Requirement, Economics majors must have a cumulative grade point average of 2.0 in their economics courses. In addition, all majors must receive a minimum grade of ‘C-minus’ in each of the Department’s core courses (ECO 5000, 5050, and 5100).

Writing Proficiency/Writing Intensive Requirement: To enable the Department to evaluate their writing proficiency, economics majors must register for ECO 5993, the zero-credit WI course, in conjunction with one of its stipulated corequisites. All economics majors must satisfy this requirement, even if they are not subject to the University General Education Requirements. Papers written for economics courses may satisfy the requirement, when certified by the assigning faculty member as satisfying the writing proficiency requirement.

Cognate Courses: Economics majors should consult with their adviser about cognate courses. Majors may earn as many as sixteen cognate credits in business courses. Courses in other social sciences and in computer science are also useful complements to economics. Majors who plan graduate study in economics are encouraged to take the Mathematics 2010 sequence as early as possible. Cognate credits contribute to the 120 credits required for graduation, but they do not count toward the required thirty-two credits in economics.

Combined Curriculum for Teaching Certificate: Economics majors wishing to enter secondary teaching should see page 208 for a description of the requirements and procedures for combining a degree in Liberal Arts with a teaching certificate. Students must complete the Economics major requirements as part of their program of study.

Honors Program

Economics majors with strong academic records and an interest in research are urged to apply to the departmental undergraduate adviser for admission to the Honors Program. Applicants should have overall grade point averages of 3.3 or above.

Honors majors must take Economics 4997, the Senior Honors Seminar, during their last two semesters before graduation. They conduct
research for the seminar under the close supervision of an Economics faculty member and write their results as an honors thesis, the length of which depends on the nature of the research project. Honors majors also must elect at least one 4000-level seminar offered by the Honors Program. (See the Schedule of Classes under ‘Honors Program’ for seminar topics.) Finally, the student must accumulate at least fifteen credits in honors-designated course work, including Economics 4997 and the Honors Program Seminar. These honors credits need not be in the Economics Department. Those who successfully complete these requirements and finish their undergraduate course work with an overall grade point average of 3.3 or above will graduate with the degree designation ‘With Honors in Economics’. For additional information on other honors-designated course work available each semester, see the Liberal Arts section of the University Schedule of Classes under ‘Honors Program,’ or contact the Director of the Honors Program (577-3030).

Minor in Economics
A minor consists of ECO 2010, ECO 2020, and any three elective courses at the 4000-level or above. At least three courses must be taken in residency. Students must have a cumulative grade point average of 2.0 or better in economics courses.

‘AGRADE’ Program
The Economics Department actively participates in the ‘AGRADE’ (Accelerated Graduate Enrollment) Program, which enables qualified seniors in the College of Liberal Arts to enroll simultaneously in the undergraduate and graduate programs of the College, and to apply a maximum of fifteen credits toward both an undergraduate and graduate degree in economics. Students interested in ‘AGRADE’ should contact the Director of Undergraduate Studies: 577-3345.

ECONOMICS COURSES (ECO)
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

Introductory Economics

1000 (SS) Survey of Economics. Cr. 4
Not for major credit. Scope of economics and the task of the economist in modern society; the market economy - its evolution and development; non-market economies; economic problems and prospects in the contemporary world. (T)

2010 (SS) Principles of Microeconomics. Cr. 3-4
Supply, demand, price at the level of the firm and industry; business institutions and their operation; determinants! of wage and salary levels, interest rates, rent, profits, income distribution; public policy in relation to business and labor. (T)

2020 (SS) Principles of Macroeconomics. Cr. 3-4
Determination of national income, consumption and saving, and investment; money, banking and the Federal Reserve; inflation and unemployment; monetary and fiscal policy; economic growth and productivity; the international sector. (T)

Field A: Economic Theory

5000 Intermediate Microeconomics. Cr. 4
Prereq: ECO 2010, MAT 1500 or MAT 1800 or equiv. based on satisfactory score on mathematics placement examination. Theory of the firm and consumer. Analysis of a price system as a means to efficient allocation of productive resources. (T)

5020 Fundamentals of Economic Analysis. (ECO 7020) Cr. 4
Prereq: ECO 5000 and MAT 2010 or MAT 5010 or equiv. ECO 5020 offered for undergraduate credit only; ECO 7020 offered for graduate credit only. Basic mathematical methods applied to economic analysis, including applications of differential and integral calculus, analytical geometry, and linear algebra. Problems used to illustrate applications in microeconomics and macroeconomics. (F)

5050 Intermediate Macroeconomics. Cr. 4
Prereq: ECO 2020, MAT 1500 or MAT 1800 or equiv. based on satisfactory score on mathematics placement examination. Theory of equilibrium income determination. National output and income, saving and capital formation. (T)

6000 Price and Allocation Theory. Cr. 4
Prereq: ECO 5000 or equiv.; MAT 2010 or equiv. Introduction to the theory of consumer choice and the theory of production, and other selected topics. Primarily for M.A. students and for Ph.D. students who want to review. (F)

6050 Macroeconomics. Cr. 4
Prereq: ECO 5050 or equiv. No credit after ECO 7050. Determination of national income, unemployment and interest rates; theories of inflation; effectiveness of macroeconomic public policies. Primarily for M.A. students and for Ph.D. students who want to review. (W)

Field B: Quantitative Methods

5100 Introductory Statistics and Econometrics. Cr. 4
Prereq: ECO 2010; 2020; MAT 1500 or MAT 1800 or equiv. based on satisfactory score on mathematics placement examination. Preliminary data analysis; simple regression; multiple regression; probability and statistics; inference in multiple regression; generalized regression. (T)

6100 Introduction to Econometrics. Cr. 4
Prereq: ECO 5050 and 5100 or consent of instructor. Application of statistics and mathematics to the quantitative analysis of the position of and changes in the economy as a whole. Typical problems formulated as testable hypotheses. Models of the economy analyzed. (F)

6120 Statistics and the Law. Cr. 3
Prereq: MAT 1800 or equiv. or consent of instructor. Open only to Law students. Application of statistics and economic analysis to issues arising in the legal system and the practice of law. Topics include: descriptive statistics, elements of probability, regression, and price theory. (W)

Field C: Industrial Organization

5200 Regulation and Regulated Industries. Cr. 4
Prereq: ECO 2010. Public regulation of prices, profits, service, and entry in industries such as electrical power, natural gas, telephones, broadcasting, and transportation; the rationale for having public regulation, and the analysis of its economic effects; reform of the scope and practice of regulation; public ownership; regulation of occupational and product safety standards and environmental standards. (Y)

5210 Market Power and Economic Welfare. Cr. 4
Prereq: ECO 2010. Monopoly, oligopoly, and competition in U.S. industry; sources of market power and their effect on prices, profits, and technological progress, as illustrated by such industries as steel, automobiles, petroleum, retailing, or prescription drugs. Selected topics in antitrust policy. (Y)

5250 Economic Analysis of Law. Cr. 4
Prereq: ECO 2010. Economic analysis of property rights, torts, contracts, criminal law, the law of business organizations and financial markets, and the law of taxation. Economic analysis of litigation; the use of economics and statistics in litigation. (Y)
Field D: International Economics

5300 International Trade. Cr. 4
Prereq: ECO 2010. Factors in international economic relations; patterns of international specialization; balance of international payments; foreign exchange; commercial policy of the United States and other countries; foreign investment and economic development; international economic cooperation. (F)

5310 International Finance. Cr. 4
Prereq: ECO 2020. Major policy issues in the field of international finance with emphasis on open economy macroeconomics. Topics include the balance of payments and the foreign exchange market; monetary and fiscal policies in open economies; the floating exchange rate system; international financial markets; and European monetary integration. (W)

Field E: Labor and Human Resources

5400 Labor Economics. Cr. 4
Prereq: ECO 2010. Economics of labor markets. Determinants of earnings and methods of compensation, labor supply and demand, effects of taxes and subsidies on labor supply, choices of occupation and level of schooling, promotion and turnover, employment discrimination, economics of crime and punishment, regulation of professions, unions. (Y)

5490 American Labor History. (HIS 5290) (HIS 7290) Cr. 4
Prereq: ECO 2010 or consent of instructor. Development of the American labor movement; its behavior in the contemporary scene. Labor’s experiments with social, political, legal, and economic institutions. Comparisons with foreign labor movements. (B)

6410 Labor Markets. Cr. 4
Prereq: ECO 2010. Labor supply; causes of and remedies for unemployment; labor mobility and the operation of labor markets; productivity and real wages; wage determination; human capital, income distribution, and economic development; poverty and its causes; economic impact of collective bargaining. (Y)

6420 Labor Relations and Public Policy. Cr. 3
Prereq: ECO 2010 or graduate standing. Overview of labor force trends; U.S. unionism; management of labor relations; collective bargaining; procedure and substance; bargaining power in the private and public sectors. Comparative trends and principles in industrial relations systems of other societies also examined. (F,S)

Field F: Public Finance

5500 Public Finance: Taxation and Expenditure Theory. Cr. 4
Prereq: ECO 2010 or consent of instructor. Role of government in a market economy: sources of market failure—public goods and externalities; principles of taxation and expenditures; tax incidence; federal tax structure; selected government expenditure programs. (S,F)

5550 Economics of Health Care. Cr. 4
Prereq: ECO 2010. Allocation of health care resources, with respect to demand and supply of health care. Roles of hospitals, physicians, and health insurance; market imperfections and their role in economics of health care. (Y)

Field G: Money and Banking

5700 Money and Banking. Cr. 4
Prereq: ECO 2020. Role of the Federal Reserve System, the commercial banks, and the non-bank public (including financial intermediaries) in determining the money supply; central banking and techniques of monetary control; indicators and targets of monetary policy; and how money affects economic activity. (F,W)

Field H: Urban and Regional Economics

5800 Urban and Regional Economics I. (U P 5820) Cr. 4
Prereq: ECO 2010 or consent of instructor. Introduction to the economic foundations of urban problems; land use, housing, poverty, transportation, local public finance; regional industry mix, income, growth and development; the national system of cities and location of firms. (Y)

6455 Discrimination and Fair Housing. (U S 6455) (SOC 6455) (PS 6455) (AFS 6455) Cr. 3
Prereq: senior or graduate standing. Multidisciplinary investigation into the nature, motivations, consequences, and legal/public policy implications of racial/ethnic discrimination in housing and related markets in U.S. metropolitan areas. (B)

6810 Political Economy of the Urban Ghetto. (SOC 6850) (U P 6670) Cr. 3
Prereq: graduate standing; upper division undergraduates by consent of instructor. Examination of the economic, social and political transformation of U.S. cities; particular attention to the formation, dynamics, economics and social sub-systems of urban ghettos and their relationship to broader contexts. (B)

Directed Readings and Special Courses

3990 Directed Study. Cr. 1 (Max. 2)
Prereq: senior standing with 12 or more credits in economics with grade A or B. For the student who shows evidence of ability and interest in economic study and who desires opportunity for advanced reading in a special field. Arrange with adviser. (T)

3991 Directed Study: Salford - W.S.U. Exchange. Cr. 3-9
Prereq: consent of departmental adviser. Open only to students admitted to Salford-WSU Exchange Program. Directed study at University of Salford, England. (F,W)

4991 Research in Economics. Cr. 4
Prereq: consent of department prior to registration; senior standing with 12 or more credits in economics with grade A or B. Economic research on an appropriate topical topic of the student’s choice, conducted under faculty supervision. (T)

4997 Senior Honors Seminar. Cr. 4 (8 req.)
Prereq: economics honors program, senior standing, major in economics. Must be elected two successive semesters. Research methodology, reading and discussion in areas selected by the seminar instructor. A senior honors essay. (T)

5991 Directed Study: Salford - W.S.U. Exchange. Cr. 3-9
Prereq: consent of departmental adviser. Open only to students admitted to Salford-WSU Exchange Program. Directed study at University of Salford, England. (F,W)

5992 Directed Study: Economics for High School Teachers. Cr. 4
Prereq: consent of adviser. Open to area high school teachers. Designed for Detroit-area high school teachers and covering material taught in high school: micro- and macroeconomic concepts, urban issues, international economics; methods for teaching economics. (T)

5993 (WI) Writing Intensive Course in Economics. Cr. 0
Prereq: junior standing; satisfactory completion of English Proficiency Examination; consent of instructor; coreq: ECO 3990, 5200, 5210, 5490, 5700, or 5800. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a course designated as a corequisite. (T)
ENGLISH

Office: Room 1200, 51 West Warren; 577-2450
Chairperson: Richard Grusin
Associate Chairperson: Elizabeth S. Sklar
Academic Services Officer: Margaret M. Maday
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Professors

Associate Professors

Assistant Professors
Robert Aguirre, Gwendolen Gorzelsky, Kenneth Jackson, Sheila Lloyd, Bruce S. Morgan, Frances Ranney, Dana Seitler, Kirsten Thompson

Senior Lecturers
Carla Harryman, Michael L. Liebler

Lecturers
Marta O. Dmytrenko-Ahrabian, Christopher Bierman, Todd Duncan, Laurie Evans, Dorothy Huson, Margaret Jordan, Dean-Michael Lynn, Phoebe Mainster, Sara Tipton, Chris Tysh

Director, English Language Institute
Bruce S. Morgan

Emeritus / Emerita Professors

Emeritus / Emerita Associate Professors

Degree Programs
BACHELOR OF ARTS with a major in English

*MASTER OF ARTS with a major in English

*MASTER OF ARTS in Comparative Literature

*DOCTOR OF PHILOSOPHY with a major in English and concentrations in American literature, English literature, literary criticism, and composition research

* For specific requirements, see the Wayne State University Graduate Bulletin.

Bachelor of Arts
With a Major in English

English Studies today includes many fields of inquiry and areas of textual theory and analysis. The English major is designed to introduce students to these fields and to provide a challenging and flexible liberal arts education as well as a pre-professional program for students interested in careers in education, the law, business, and other professions.

Admission requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

Advising: The Associate Chairperson of the Department and the Assistant to the Associate Chairperson provide advising to English majors. As soon as possible, and no later than the completion of sixty credits, the prospective major should consult one of the advisers in the Department to discuss a course of study. E-mail advising is available at: advise@lists.wayne.edu

English majors and minors are not exempt from the English Proficiency Examination in Composition.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

Credit Limitations: NO MORE than forty-six credits in the major field may count toward degree requirements. With the adviser’s approval, appropriate English 5990 (Directed Study) credit may count toward a major.

Major Requirements consist of twelve English courses beyond the University General Education Competency Requirement (see page 24), and Liberal Arts Group Requirements (see page 223). Ten of these courses must be beyond the 2000 level. (For exceptions in combined degree programs, see below.) Specific requirements are as follows:

1. English 3100, Introduction to Literary Studies, Cr. 3.

2. Three courses in English and American literature:
   a) English 3110, (PL) English Literature to 1700, Cr. 3.
   b) English 3120, (PL) English Literature after 1700, Cr. 3.
   c) English 3140, (PL) Survey of American Literature, Cr. 3.

3. One upper-division course with an emphasis on theory in one of the following areas: composition theory, literary or cultural theory, film theory, folklore theory, linguistic theory, rhetorical theory (English 5040, 5080, 5090, 5600, 5610, 5770, 5780, 5780, or 5790).

4. One upper-division course in cross-disciplinary or comparative studies in one of the following areas: comparative literature, gender studies, African-American literature, film, cultural studies, folklore, or creative writing (English 5030, 5050, 5060, 5070, 5480, 5580, 5590, 5650, 5670, 5870, 5880, or 5890).

5. English 5992, Senior Seminar, Cr. 4. This course with co-registration in ENG 5993 fulfills the General Education Writing Intensive requirement. With the consent of the associate chairperson and the appropriate instructor, students are occasionally permitted to substitute a 5000-level course, with ENG 5993 co-registration, for the Senior Seminar and to fulfill the Writing Intensive requirement.

In addition to the above requirements, majors must take at least five other English courses for a minimum of 36 credits (46 credits maximum). Three of these five courses must be at the 5000 level. The Department recommends that students preparing themselves for graduate work in literature choose course work that will expose them...
to a broad historical range of English and American texts. Students who wish to teach English on the secondary school level are advised to take a course in Shakespeare (English 2200 or 5150), courses in American literature beyond the basic major requirements, and an advanced course in linguistics. Students are free to select courses in any of the fields of English studies and to emphasize any one of the areas covered by the Department's course offerings.

Honors in English

The English Department participates in the Liberal Arts Honors Program. To graduate with honors in English an undergraduate student must have a minimum 3.5 g.p.a. in English. Honors requirements are:

1) A minimum of thirty-six credits in English courses beyond the Liberal Arts Group requirements and General Education requirements, twelve credits of which must be in Honors courses. The required English courses are:
   a) English 3100, Introduction to Literary Studies: three credits.
   b) the three basic surveys of English and American literature: ENG 3110, 3120, and 3140: nine credits;
   c) one course in theory: three credits;
   d) one comparative or cross-disciplinary course: three credits;
   e) the English Honors Seminar, ENG 4991: three to six credits;
   f) the English Honors Project, ENG 4992: three credits;
   g) electives in English, most of which must be at the 5000-level, and three credits of which must be taken with the Honors Option designation: nine to twelve credits.

2) At least one 4200-level interdepartmental Honors Seminar, HON 4200-4280.

Candidates for honors in English may arrange for their Honors-option coursework by contracting with any professor teaching a 5000-level course to do honors-level work in that course. Supplementary work required for the 'honors' designation might consist of an extra paper, a longer term paper, evidence of additional readings (for example, through journal entries), an oral or written report on an aspect of criticism, a special examination, or the like.

The Honors Project should be twenty to thirty pages long. It may be in any specialty comprised by the broad field of English: creative writing (accompanied by a short critical essay), film studies, linguistics, literature, literary theory, folklore, cultural studies, or writing theory.

Students who wish to become candidates for degrees with honors in English are encouraged to consult early with the Associate Chairperson of the English Department (577-7694) or with the Director of the University Honors Program (577-3030).

'AGRADE' Program

The English Department invites academically superior majors to petition for admission to the 'AGRADE' (Accelerated Graduate Enrollment) Program. ‘AGRADE’ procedures enable qualified seniors to enroll simultaneously in the undergraduate and graduate programs of the Department and to apply a maximum of fifteen credits toward both a bachelor’s and a master’s degree. Students admitted to the ‘AGRADE’ Program may be able to complete both degrees in five years of full-time study.

An ‘AGRADE’ applicant should petition the Director of Graduate Studies of the English Department for admission. Applications will be accepted no earlier than the semester in which ninety credits are completed. Applicants must have an overall grade point average at the ‘cum laude’ level (approximately 3.4) and not less than a 3.6 g.p.a in the major courses already completed. If a student's petition is accepted, a designated faculty adviser will develop a graduate Plan of Work, specifying the ‘AGRADE’ courses to be included in subsequent semesters.

For more details about the ‘AGRADE’ Program, contact the Director of Graduate Studies in English: 577-2450.

Combined Curriculum Requirements

Combined Curriculum for Secondary Teaching: An English major who wishes to prepare for a career in secondary school teaching must complete either the regular program for majors or the Honors Program. Information regarding this curriculum is on page 229.

Combined Curriculum with Dentistry, Law, or Medicine: (See page 225.) Students who wish to major in English and receive the Bachelor of Arts degree by the end of their first professional year of study must complete six courses in English beyond the General Education and Liberal Arts Group Requirements. At least four of these must be above the 2000 level.

Cognate Study in English

College and University Requirements: All students in the University must pass English 1020 (Introductory College Writing), and an intermediate composition course. Those students whose scores on the English Qualifying Examination, taken prior to matriculation, indicate need for instruction and practice in composition will be placed in English 1010/1015 (Basic Writing) before they take English 1020. (To take the English Qualifying Examination, students must apply upon admission to: Testing, Evaluation, and Student Life Research Services.)

In addition, designated English courses may be used toward fulfillment of the College and University Philosophy and Letters requirement (see page 27).

Courses at the 2000 and 3000 level are open to all undergraduates who have completed 1020. Courses at the 5000 level are open to both undergraduates and M.A. students. Senior standing is prerequisite to undergraduates’ admission to all 6000-level courses. Only graduate students may register for 7000-level courses.

Students should note that some English courses have general titles which are constant while specific sub-titles change each semester. Students may elect such courses more than once, up to the maximum number of credits allowed.

The Minor in English: The minor in English requires six courses beyond freshman composition for a total of at least eighteen credits:
   a. at least one course from the following: English 3110, English 3120, English 3140.
   b. at least one course from ENG 5080 through 5590.
   c. four electives in English, provided that at least two are selected from ENG 2200, 3110, 3120, 3140, and 5000-level courses.

No 1000-level course and not more than two 2000-level courses will count toward the minor.

The minor in English permits study in literature, film and literature, folklore, creative writing, linguistics, and expository writing. Students are invited to discuss their program with an English adviser.

Folklore: The English minor in folklore is for students interested in the analysis of the oral and material aspects of a traditional culture. It requires a minimum of six courses: English 2600, 3600, 5600, 5650, and 5670, and a cognate course selected from appropriate offerings in English or other departments. Folklore minors should consult with the undergraduate folklore adviser (577-7708) to set up an appropriate program. Not more than two courses at the 2000 level will count toward the minor, and no 1000-level course will count.
Scholarships
Also see page 227, above, and the section on the Office of Scholarships and Financial Aid, page 20. For further information, contact the Department Office.

Gilbert R. and Patricia K. Davis Endowed Scholarship for English Majors: Award open to part-time students majoring in English in the College of Liberal Arts, with a g.p.a. of 3.0 or above and a minimum of fifteen credits in residence at Wayne State University. Recipients must be Michigan residents. Contact the English Department for details.

Loughead-Eldredge Endowed Scholarships in Creative Writing: Awards open to advanced undergraduates and M.A. students in good academic standing who are pursuing a B.A. or M.A. in English with a concentration in creative writing. Contact the English Department for details.

Albert Feigenson Endowed Memorial Scholarship: Awards open to full-time undergraduate and graduate students majoring in music or English, with high scholastic standing and demonstrated financial need. Contact the English Department and the Office of Scholarships and Financial Aid.

Doretta Burke Sheill Endowed Memorial Scholarship: Awards open to undergraduate and graduate students majoring in English literature who demonstrate high scholastic achievement, character, leadership, and financial need. Contact the English Department and the Office of Scholarships and Financial Aid.

Stephen H. Tudor Memorial Scholarship in Creative Writing: Awards open to full-time degree-seeking students majoring in English who have completed at least fifteen credits in residence and demonstrate high achievement in creative writing. Contact the English Department for details.

Pearl Applebaum Warn Endowed Scholarship in English: Award open to returning full- or part-time female students age 27 years and older, with high scholastic achievement and demonstrated financial need. Contact the English Department for details.

Joseph J. and Mary E. Yelda Endowed Scholarship for English: Award open to full-time students who graduated from a metropolitan Detroit area high school, are majoring in English in the College of Liberal Arts, and have a g.p.a. of 3.0 or above. Awarded on the basis of academic merit and financial need. Contact the English Department for details.

Awards open to undergraduate and graduate students majoring in music or English in the College of Liberal Arts, with a g.p.a. of 3.0 or above and a minimum of fifteen credits in residence at Wayne State University. Recipients must be Michigan residents. Contact the English Department for details.

ENGLISH COURSES (ENG)
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

NOTE: ENG 1020 or its equivalent is prerequisite to all English courses numbered above 1999.

0500 English Language Institute. Cr. 1-12 (Max. 12)
Offered for S and U grades only. No degree credit. Intensive course in English for speakers of other languages. Includes reading, writing, grammar, listening comprehension, and speaking. (T)

0520 English for Teaching Assistants. Cr. 2
Prereq: teaching assistant who has failed SPEAK test; written consent of director of ELI. Not offered for degree credit. Offered for S and U grades only. American English language skills to improve teaching effectiveness of non-native speakers of English. Pronunciation, stress, intonation, speaking rate; oral presentation practice; cultural factors in U.S. university classroom. (T)

1010 Basic Writing. Cr. 2-4
Only two credits count toward graduation. No credit toward English group requirement. Prereq: placement through English Qualifying Examination. Offered for S and U grades only. One hour arranged. Extensive practice in fundamentals of college writing and reading in preparation for ENG 1020. Required of students qualifying on the basis of the English Qualifying Examination. (T)

1020 (BC) Introductory College Writing. Cr. 4
Prereq: placement through English Qualifying Examination or passing grade in ENG 1010. A course in writing and critical reading, including at least one appropriately documented paper based upon outside sources. (T)

1030 English as a Second Language (ESL). Cr. 1-12
Offered for S and U grades only. Integrated skill course designed to teach communication skills to non-native speakers of English at various levels of proficiency. (S)

1050 (BC) Freshman Honors: English I. Cr. 4
Open only to Honors Program students. Freshman seminar in reading and writing about fiction, poetry, and drama. (F)

1080 (EP) Writing Workshop. Cr. 2
Prereq: ENG 1020 or equiv. Offered for S and U grades only. Open only to those failing the English Proficiency Examination. Only two credits apply toward degree. Review of basic skills in writing and critical reading. Students must demonstrate writing proficiency on final exam in order to receive credit. Achieving an S grade in English 108 satisfies the English Proficiency Examination requirement. (T)

1700 English Grammar. (LIN 1700) Cr. 3
Intensive course in the rules of English grammar, especially those rules needed for written work in college. Explication of the linguistic principles inherent in the rules of usage. (B)

2050 (IC) Freshman Honors: English II. Cr. 4
Open only to Honors Program students. Continuation of ENG 1050. (W)

2100 (IC) Introduction to Poetry: Literature and Writing. Cr. 3
Prereq: ENG 1020 or equiv. Introduction to techniques and forms of poetry through critical reading of, and writing about, poems of various types and from many periods. (Y)

2110 (IC) Introduction to Drama: Literature and Writing. Cr. 3
Prereq: ENG 1020 or equiv. Introduction to techniques and forms of drama through critical reading of, and writing about, representative plays from various traditions and periods. (Y)

2120 (IC) Introduction to Fiction: Literature and Writing. Cr. 4
Prereq: ENG 1020 or equiv. Introduction to techniques and forms of fiction through critical reading of, and writing about, short stories and novels. (T)

2200 (PL) Shakespeare. Cr. 3
Prereq: ENG 1020 or equiv. Emphasis on the dramatic and literary qualities of the plays: representative comedies, tragedies and histories. (T)

2210 (IC) Great English Novels: Literature and Writing. Cr. 3
Prereq: ENG 1020 or equiv. Critical reading of, and writing about, a representative sample of important and pleasurable English novels from the eighteenth century through the modern period. (Y)

2310 (IC) Major American Books: Literature and Writing. Cr. 3
Prereq: ENG 1020 or equiv. Critical reading of, and writing about, representative texts in prose, poetry, and drama by such writers as Emerson, Twain, Dickinson, O’Neill, Ellison. (Y)
2390  (IC) Introduction to African-American Literature: Literature and Writing. (AFS 2390) Cr. 4
Prereq: ENG 1020 or equiv. Introduction to major themes and some major writers of African-American literature, emphasizing modern works. Reading and writing about representative poetry, fiction, essays, and plays. (T)

2450  (VP) Introduction to Film. (COM 2010) Cr. 4
Examination of film techniques and basic methods of film analysis. Material fee as indicated in the Schedule of Classes. (T)

2460  (COM 2020) (VP) History of Film. Cr. 3
Critical study of the motion picture as a modern visual art; screening and analysis of representative fiction films to illustrate important historical periods and genres. Material fee as indicated in the Schedule of Classes. (T)

2500  (PL) The English Bible as Literature. Cr. 4
Prereq: ENG 1020 or equiv. The King James text as a literary masterpiece. (Y)

2530  Literature and Identity. Cr. 3
Prereq: ENG 1020 or equiv. Study of literary texts with emphasis on how identity is shaped by ethnicity, religion, gender, sexual orientation, and other factors. (Y)

2540  Literatures of the World. Cr. 3
Prereq: ENG 1020 or equiv. Comparative approach to national or regional literatures throughout the world: Asian, Pacific, African, North and South American, and European. (Y)

2570  (IC) Literature By and About Women: Literature and Writing. Cr. 3
Prereq: ENG 1020 or equiv. Introduction to the major themes and issues of writing by and about women. Reading and writing about representative fictional and non-fictional works. (Y)

2600  Introduction to Folklore. Cr. 3
Prereq: ENG 1020 or equiv. Introduction to the study of the oral literatures, customs, traditional beliefs and practices of selected folk communities. (Y)

2670  (P S 2700) Introduction to Canadian Studies. (GPH 2700) (HIS 2700) Cr. 3
Survey of Canada in its cultural, literary, historical, geographical and political aspects; key concepts and social patterns that define the Canadian experience. (Y)

2720  (PL) Basic Concepts in Linguistics. (LIN 2720) Cr. 3
Prereq: ENG 1020 or equiv. Analysis of the structure and use of language, from the standpoint of current linguistic practice. Topics include: phonetics and sound structure, word structure, syntax, semantics, language origin and history, dialects, language learning, animal communication, and language in social interaction. (T)

2730  Languages of the World. (LIN 2730) Cr. 3
Prereq: ENG 1020. Survey of structure of major language families of the world: western and non-western; interrelationships of language and culture; universals and variations of universals in language and culture. (B)

2800  Techniques of Imaginative Writing. Cr. 4
Prereq: ENG 1020 or equiv. Writing in various creative forms. Frequent individual conferences and student readings for class criticism. (T)

3010  (IC) Intermediate Writing. Cr. 3
Prereq: ENG 1020 or equiv. Intermediate course in writing and critical reading, building upon skills taught in ENG 1020. Areas of emphasis may include: analyzing and synthesizing written material, writing essays in a variety of rhetorical modes, developing style, and improving research skills. (T)

3040  Major Works of World Cinema. Cr. 4
Prereq: ENG 2450, COM 2010 recommended. Non-anglophone films of major directors viewed and studied; practice in film analysis; introduction to historical/cultural context. Emphasis on Europe and Asia; Latin America, Africa, Australia, and other areas may be included. Material fee as indicated in the Schedule of Classes. (B)

3050  (IC) Technical Communication I: Report Writing. Cr. 3
Prereq: ENG 1020 or equiv., sophomore standing; coreq: ENG 0500 (1 credit) required for international students with serious ESL writing problems. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Instruction in basic technical writing skills. Requirements include writing letters and memos, summaries, technical instructions, proposals, and reports. Topics include: audience and purpose analysis, visual support of texts, and formatting. (T)

3060  (OC) Technical Communication II: Writing and Speaking. Cr. 3
Prereq: grade of C or better in ENG 3050; coreq: ENG 0500 (1 credit) required for international students with serious ESL writing problems. Continuation of technical reporting techniques introduced in ENG 3050, emphasizing instruction and practice in oral technical reporting. Requirements include: process demonstrations, mechanism descriptions, press conferences, and a group project culminating in a written feasibility report and formal oral presentation. (T)

3100  Introduction to Literary Studies. Cr. 3
Prereq: ENG 1020 or equiv. Open only to English majors or students in College of Education; others by consent of instructor. Methods of reading, responding to, analyzing, and writing about texts, for students majoring in English Studies. (F,W)

3110  (PL) English Literature to 1700. Cr. 3
Prereq: ENG 1020 or equiv. Selected works from such writers as Chaucer, Spenser, Shakespeare, Donne, Milton. Required of English majors. (T)

3120  (PL) English Literature after 1700. Cr. 3
Prereq: ENG 1020 or equiv. Selected works from such writers as Swift, Pope, Wordsworth, Dickens, Tennyson, Eliot, Hardy. Required of English majors. (T)

3140  (PL) Survey of American Literature. Cr. 3
Prereq: ENG 1020 or equiv. Historical survey of American literature from the colonial period through the twentieth century with emphasis on nineteenth and early twentieth centuries. (T)

3400  Literary Themes and Genres. Cr. 3 (Max. 12)
Prereq: ENG 1020 or equiv. Literature in a topical or thematic context. Topics such as initiation, metamorphosis, politics and the novel, the epic, satire, recent experimental fiction. Topics to be announced in the Schedule of Classes. (Y)

3600  Survey of American Folklore. Cr. 3
Prereq: ENG 1020 or equiv. Survey of the oral literatures, the tall tale, customs, traditional beliefs and practices of selected folk communities of the United States, Canada, Mexico and the Caribbean in relation to American culture and society. (I)

3810  Poetry Writing. Cr. 3
Prereq: ENG 2800. Instruction and practice in the art of English and American poetic forms: patterns of sound, quantitative values, diction, metaphors and images. (Y)

3820  Fiction Writing. Cr. 3
Prereq: ENG 2800. Fundamentals of fiction, mainly the short story. Analysis of stories by established writers and by students. Frequent individual conferences. (T)
3830  Play Writing. Cr. 3  
Prereq: ENG 2800. Basic instruction in the development of plays for stage and television, or of movies and sketches. Attention to the writing of dialogue.  
(Y)

3991  Directed Study: Salford - W.S.U. Exchange. Cr. 3-9  
Prereq: written consent of departmental adviser. Open only to students admitted to Salford - W.S.U. Exchange Program. Directed study at the University of Salford.  
(F,W)

3993  (HIS 3993) Topics in Canadian History, Society, Politics, and Culture. (P S 3993) (GPH 3993) (SOC 3993) Cr. 1-4  
Significant topics and issues in the development of Canadian history, society, politics, and culture.  
(F,W)

4990  Directed Study: Honors Program. Cr. 3-6 (Max. 24)  
Prereq: written consent of English Honors Committee.  
(T)

4991  Honors Seminar. Cr. 3-6 (Max. 24)  
Prereq: written consent of instructor or English Honors Committee. Honors seminar.  
(T)

4992  Honors Project. Cr. 3  
Prereq: senior standing; written consent of departmental honors adviser. Substantial essay in literature, linguistics, folklore or film, or body of creative writing accompanied by an essay; directed by two members of the English faculty.  
(T)

5010  Advanced Expository Writing. Cr. 3 (Max. 6)  
Prereq: grade of B or better in an intermediate writing course or consent of instructor. Advanced study and practice in various forms of expository prose, especially the essay. Topics to be announced in Schedule of Classes.  
(Y)

5030  Topics in Women's Studies. (W S 5030) Cr. 3 (Max. 9)  
Prereq: 12 credits in ENG above the 1000 level. Thematic, critical or generic study of women and literature. Topics to be announced in Schedule of Classes.  
(Y)

5040  Film Criticism and Theory. Cr. 4  
Prereq: ENG 2450 or another film course or consent of instructor. Survey of the major film theories from Münsterberg to contemporary film semiotics; examination of various attempts made at a systematic understanding of the cinema. Material fee as indicated in the Schedule of Classes.  
(Y)

5050  Concepts in Film Studies. Cr. 3-4 (Max. 12)  
May not be elected more than three times. Specific movements or tendencies in film historiography. Topics to be announced in Schedule of Classes. Material fee as indicated in the Schedule of Classes.  
(B)

5060  Styles and Genres in Film. Cr. 4 (Max. 12)  
Study of significant works within selected genres: the western, the horror film, comedies. Emphasis on styles of particular directors. Topics to be announced in Schedule of Classes. Material fee as indicated in the Schedule of Classes.  
(Y)

5070  Topics in Film. Cr. 4 (Max. 12)  
Topics (such as film and fusion of the arts) to be announced in Schedule of Classes. Material fee as indicated in the Schedule of Classes.  
(Y)

5080  Topics in Cross-Disciplinary and Cultural Studies. Cr. 3 (Max. 9)  
Prereq: 12 credits in ENG above the 1000 level. Study of cultural formations and practices from comparative and interdisciplinary perspectives furnished by history, semiotics, anthropology, linguistics, sociology, feminism, psychoanalysis, rhetoric, etc. Topics to be announced in Schedule of Classes. Required of English majors, but one may substitute another course in cross-disciplinary or comparative studies.  
(Y)

5090  Topics in Literary and Cultural Theory. Cr. 3 (Max. 9)  
Prereq: 12 credits in ENG above the 1000 level. Study of literary and cultural theory in various contexts -- urban, metropolitan, ethnic, global -- with reference to primary texts. Topics to be announced in Schedule of Classes. Required of English majors; another theory course may be substituted.  
(Y)

5100  Literature of the Middle Ages. Cr. 3  
Prereq: 12 credits in ENG above the 1000 level. Readings in Old and Middle English literature (900-1500), mostly in translation. Topics to be announced in Schedule of Classes.  
(I)

5110  Chaucer. Cr. 3  
Prereq: 12 credits in ENG above the 1000 level. Readings from The Canterbury Tales and from Chaucer's other works in cultural context.  
(I)

5140  Introduction to Old English. Cr. 3  
The fundamentals of language and grammar and the literary analysis of Old English texts.  
(Y)

5150  Shakespeare. Cr. 3  
Prereq: 12 credits in ENG above the 1000 level. For English majors and others interested in more intensive study than is offered in ENG 2200. Some attention to Shakespearean scholarship.  
(Y)

5180  Milton. Cr. 3  
Prereq: 12 credits in ENG above the 1000 level. Emphasis on Milton's major poetry through attention to his prose and to historical background.  
(I)

5190  Topics in Renaissance Literature. Cr. 3 (Max. 9)  
Prereq: 12 credits in ENG above the 1000 level. Studies of particular authors or groups of authors from 1500-1600 or of literary works from period, generic, thematic or methodological focuses. Topics to be announced in Schedule of Classes.  
(B)

5200  Restoration and Eighteenth Century Literature. Cr. 3  
Prereq: 12 credits in ENG above the 1000 level. A survey of English literature from 1660 to 1784. Readings from authors such as John Dryden, Aphra Behn, Mary Astell, Alexander Pope, Lady Mary Montagu, Jonathan Swift.  
(B)

5240  Topics in Restoration and Eighteenth Century Literature. Cr. 3 (Max. 9)  
Prereq: 12 credits in ENG above the 1000 level. For students familiar with literary history of the period. Special topics for detailed study of a genre, movement or author to be announced in Schedule of Classes.  
(B)

5250  Nineteenth Century Literature. Cr. 3  
Prereq: 12 credits in ENG above the 1000 level. A survey of nineteenth century British literature, with works selected from such authors as Wordsworth, Keats, Dickens, Carlyle, Tennyson, Swinburne and Hardy.  
(B)

5260  Literature of the Romantic Period. Cr. 3  
Prereq: 12 credits in ENG above the 1000 level. A survey of English literature from 1789-1832. Emphasis on the major poets (Blake, Wordsworth, Coleridge, Keats, Shelley and Byron), with some attention to the major essayists (De Quincey, Hazlitt and Lamb) and novelists (Austen and Scott).  
(B)

5270  Literature of the Victorian Period. Cr. 3  
Prereq: 12 credits in ENG above the 1000 level. A survey of English literature from 1832-1901. Emphasis on the major poets (Tennyson, Arnold, Swinburne), novelists (Dickens, Eliot, Hardy), and prose writers (Carlyle and Ruskin).  
(B)
5290  Topics in Nineteenth Century Literature. Cr. 3 (Max. 9)
Prereq: 12 credits in ENG above the 1000 level. Readings emphasize thematic, generic, historic or aesthetic concerns in literature of the period. Topics to be announced in Schedule of Classes. (B)

5300  Twentieth Century British Literature. Cr. 3
Prereq: 12 credits in ENG above the 1000 level. Selected works in all genres from 1900 to the present. (B)

5320  Topics in Twentieth Century British Literature. Cr. 3 (Max. 9)
Prereq: 12 credits in ENG above the 1000 level. Selected writers, themes, or genres, movements: Eliot, Auden, Shaw, Lawrence; the modern novel, Bloomsbury, The Great War, the 'Thirties. Topics to be announced in Schedule of Classes. (B)

5400  American Literature to 1800. Cr. 3
Prereq: 12 credits in ENG above the 1000 level. A survey of American literature from the beginnings through the early national period, emphasizing the constructions of crucial cultural phenomena like nation-building, colonialism, liberty and union, assimilation. (B)

5410  American Literature: 1800-1865. Cr. 3
Prereq: 12 credits in ENG above the 1000 level. Survey of writers, themes and movements which have had dramatic influence in defining American culture. Writers such as Dickinson, Douglass and Emerson, and literary movements like Transcendentalism and Romanticism are studied as well as the forces that produced them, especially race, class and gender. (Y)

5420  American Literature: 1865-1914. Cr. 3
Prereq: 12 credits in ENG above the 1000 level. Survey of important literary texts that arose from cultural phenomena like post-reconstruction, urbanization, immigration, the suffrage movement, and native rights. Literary movements like Realism and Naturalism will be studied as well as influential writers like Cahan, Chopin, Dreiser and Dunbar. (Y)

5450  Modern American Literature. Cr. 3
Prereq: 12 credits in ENG above the 1000 level. Survey of culturally-significant writers, themes and movements since 1914, such as: the Harlem Renaissance, Modernism, Postmodernism; authors like Eliot, Hemingway, Morrison, Stein. (Y)

5460  Topics in American Literature of the Twentieth Century. Cr. 3 (Max. 9)
Prereq: 12 credits in ENG above the 1000 level. Twentieth century literature from specific perspectives, such as generic, historical, thematic. Topics to be announced in Schedule of Classes. (I)

5470  Survey of African-American Literature. Cr. 3
Prereq: 12 credits in ENG above the 1000 level. Historical survey of African-American literature from Colonial times through the twentieth century. (B)

5480  Topics in African American Literature. Cr. 3 (Max. 9)
Prereq: 12 credits in ENG above the 1000 level. Thematic, generic or historical perspectives: topics such as early black writers, Harlem Renaissance, African-American poetry, contemporary black writers. Topics to be announced in Schedule of Classes. (Y)

5490  Topics in American Literature. Cr. 3 (Max. 9)
Prereq: 12 credits in ENG above the 1000 level. Thematic, generic, or historical perspectives; may cover writers of different periods. Topics such as American humor, the theme of work, Southern literature, the city in literature. Topics to be announced in Schedule of Classes. (I)

5500  Topics in English and American Literature. Cr. 3 (Max. 9)
Prereq: 12 credits in ENG above the 1000 level. Generic, historical or thematic perspectives. Topics such as the romantic hero, the divided self in modern literature; to be announced in Schedule of Classes. (I)

5520  Irish Literature. Cr. 3
Prereq: 12 credits in ENG above the 1000 level. Major twentieth century Irish writers in the context of Irish history and politics: W.B. Yeats, James Joyce, major dramatists. (I)

5580  The Art of Translation. Cr. 3
Methods and theories of translation, analysis of distinguished literary translations and student practice. Required of all students in the Comparative Literature Program. (I)

5590  Topics in Comparative Literature. Cr. 3 (Max. 9)
Prereq: 12 credits in ENG above the 1000 level. The study of literary texts from an international point of view. Topics to be announced in Schedule of Classes. (B)

5600  Studies in Folklore. (ANT 6080) Cr. 3
Basic concepts, methods, and issues of folklore study. Comparative and interdisciplinary approach to problems of definition, form, creation, performance, transmission, and cultural, historical, psychological and literary significance. (B)

5650  Folklore and Literature. Cr. 3
Identification and analysis of the interrelations of folklore and literature. (B)

5670  Topics in Folklore and Folklife. Cr. 3 (Max. 9)
Topics such as fieldwork; analysis of collected oral literature; study of separate genres of oral literature, social folk custom, and folk arts. Topics to be announced in Schedule of Classes. (B)

5700  Introduction to Linguistic Theory. (LIN 5700) Cr. 3
Introduction to the scientific study of language and methodologies of linguistic analysis: phonetics and phonology, morphology, syntax, semantics, sociolinguistics, and pragmatics. Introduction to selected disciplinary and interdisciplinary topics: typology and universals, communication systems, psycholinguistics, sociolinguistics, historical linguistics, anthropological linguistics. (T)

5710  Phonology. (LIN 5290) Cr. 3
Prereq: ENG 5700 or LIN 5700. Basic introduction to articulatory phonetics; natural language sound systems and phonological processes studied through data analysis of phonological problems from a wide range of languages. (B)

5720  Topics in Language. (LIN 5720) Cr. 3 (Max. 12)
Topics such as phonology, morphology, semantics, pragmatics, historical linguistics, history of English, pidgins and creoles, language variation. Topics to be announced in Schedule of Classes. (T)

5730  Traditional Grammar. (LIN 5730) Cr. 3
Comprehensive analysis of English sentence structure and parts of speech using the terminology and descriptive approach of traditional grammar. (T)

5740  Syntax. (LIN 5300) Cr. 3
Prereq: ENG 5700 or LIN 5700. The theory of grammatical systems examined through analysis of sentence and word formation in a variety of human languages. Diversity and universals in grammar discussed and various theories of syntax reviewed. (B)

5750  Theories of Second Language Acquisition. (CLA 5750) (FRE 5750) (GER 5750) (ITA 5750) (LIN 5750) Cr. 3
Investigation of theories in second language acquisition. Review of research in development of second language competence: acquisition of phonology, lexicon, semantics, syntax, discourse, and pragmatics. (B)
5770  Sociolinguistics. (LIN 5770) Cr. 3
Identification of sociolinguistic principles used by English speakers and writers in choosing among the different English codes, styles, registers and social dialects in American and other communities. (B)

5790  Writing Theory. Cr. 3
Review of linguistic, rhetorical, and/or literary theories of written language. Analysis of the principles, purposes, types, and modes of written discourse. Course includes extensive reading and writing. (B)

5820  Internship Practicum. Cr. 3 (Max. 6)
Undergrad. prereq: junior or senior standing, written consent of internship director; grad. prereq: written consent of graduate director. Students work 18-20 hours per week as writers, editors or researchers in publishing firms and in public information and research divisions of other businesses and community organizations; students meet once per week in classroom sessions on analytical, literary and other scholarly texts related to their workplace experience. (T)

5830  Introduction to Technical and Professional Writing Practices. Cr. 3
Prereq: grade of B or better in intermediate writing course or consent of instructor. Intensive writing course that develops communication skills used in the workplace. Designed for students preparing to become technical writers/editors and students who will write as part of their professional work. (B)

5840  Theoretical Approaches to Technical and Professional Writing. Cr. 3
Prereq: ENG 5830 or consent of adviser. Survey of the theory and practice of technical and professional communication. Topics include the rhetoric and teaching of technical communication, analysis of on-the-job writing and rhetorical situations, and use of new communications technology. Some technical report writing, a research paper, and extensive reading and writing. (B)

5850  Topics in Creative Writing. Cr. 3
Prereq: ENG 3810, 3820, or 3830; or consent of instructor after submission of manuscript. Topics include new genres, new media, and writing for public audiences. (Y)

5870  Poetry Writing Workshop. Cr. 3 (Max. 6)
Prereq: ENG 3810, 3820, or 3830; or consent of instructor after submission of manuscript. The writing of poetry, conducted on a seminar basis; discussion and criticism of the work of students in the course. Frequent individual conferences. (Y)

5880  Fiction Writing Workshop. Cr. 3 (Max. 6)
Prereq: ENG 3810, 3820, or 3830; or consent of instructor after submission of manuscript. The writing of fiction, conducted on a seminar basis; discussion and criticism of the work of students in the course. Frequent individual conferences. (Y)

5890  Writing for Theatre. (THR 5130) Cr. 3 (Max. 6)
Prereq: ENG 3830 or consent of instructor. Advanced study, in a workshop setting, of dramatic structure and writing for the theatre, terminating in the writing of an original stage play. (Y)

5900  Directed Study. Cr. 1-3 (Max. 6)
Undergrad. prereq: 3.0 g.p.a., proposal submitted in preceding term, written consent of instructor and chairperson; grad. prereq: written consent of adviser and graduate officer. Advanced work for superior students whose program cannot be adequately met by scheduled classes. Course requires substantial written work. (T)

5901  Directed Study: Salford-W.S.U. Exchange. Cr. 3-9
Prereq: written consent of departmental adviser. Open only to students admitted to Salford-W.S.U. Exchange Program. (F,W)

5902  Senior Seminar. Cr. 4
Open only to undergraduate English majors; should be taken in last year of course work. Prereq: 12 credits in ENG above the 1000 level.
Degree Program

BACHELOR OF ARTS with a major in film studies

Film Studies is an interdepartmental program that offers undergraduate students the opportunity to examine cinema from a variety of perspectives: as a visual and narrative art form, as an important social and cultural force in the twentieth century, as an industry, and as a technologically based communications medium. Introductory film courses focus on the historical development of film and provide students with the necessary technical vocabulary to discuss the nature of the film experience. Advanced courses from participating departments (Africana Studies, Communication, English, German and Slavic Studies, and Romance Languages and Literatures) continue historical and aesthetic studies, but they are also concerned with theories of film, particular genres and directorial styles, and the multiple relationships between film and other art forms. Additionally, the study of techniques and skills of film writing and production is also available.

Many students take film studies courses as electives complementary to other majors. Students who major in the program may be preparing for careers as film teachers, film librarians and archivists, film critics, script writers, or workers in film production. Additional study at the graduate level is usually necessary to achieve these goals, and an adviser should be consulted regarding available graduate programs.

The film studies program is administered by an advisory committee composed of specialists in this field from the five departments noted above. The program is offered in both the College of Liberal Arts and the College of Fine, Performing, and Communication Arts. Interested students should consult the department whose fields most closely approximate the student's interests. Students interested in film studies with an emphasis in critical and historical studies in film are encouraged to meet with Professor Robert Burgoyne in the Department of English, College of Liberal Arts. Students interested in film studies with an emphasis in film production and analysis are encouraged to meet with Professor Jackie Byars in the Department of Communication, College of Fine, Performing, and Communication Arts.

Bachelor of Arts with a Major in Film Studies

Admission Requirements for this degree program are satisfied by the general requirements for undergraduate admission to the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

Major Requirements: Students majoring in film studies must complete a minimum of thirty-five credits, distributed as follows:

**CORE COURSES (Fifteen Credits)**
- ENG 2450 -- (VP) Introduction to Film (COM 2010): Cr. 4
- COM 2020 -- (VP) History of Film (ENG 2460): Cr. 3
- COM 4997 -- Senior Assessment Essay in Film Studies: Cr. 1
- COM 5993 or ENG 5993
  - (WI) Writing Intensive Course: Cr. 0
  - (WI) Writing Intensive Course in English. Cr. 0
- COM 1600 -- Intro: Audio-TV-Film Production: Cr. 3
- ENG 5040 -- Film Criticism and Theory: Cr. 4

**ELECTIVE COURSES (Twenty Credits)**

Students should consult with their advisor in selecting electives. Electives should be selected in conjunction with either the English or Communication Department.

- AFS 3200 -- The African American Cinematic Experience: Cr. 4
- AFS 5800 -- Third World Cinema: Cr. 4
- ENG 5050 -- Concepts in Film Studies: Cr. 3-4 (Max. 12)
- ENG 5060 -- Styles and Genres in Film: Cr. 4 (Max. 12)
- ENG 5070 -- Topics in Film: Cr. 4 (Max. 12)
- ENG 3040 -- Major Works of World Cinema: Cr. 4
- COM 3990 -- Directed Study: Cr. 1-4 (Max. 6)
- ITA 5150 -- Italian Cinema Since 1942: Cr. 3 (Max. 9)
- SLA 3710 -- (VP) Russian & East Europn. Film (ARM/POL/RUS 3710): Cr. 3
- COM 5020 -- Studies in Film History: Cr. 4 (Max. 12)
- COM 5080 -- Documentary and Non-Fiction Film and Television: Cr. 4
- COM 5270 -- Screenwriting: Cr. 3
- COM 5400 -- Techniques of Film/Video Production: Cr. 4
- COM 5440 -- Film Production: Cr. 4
- COM 6680 -- Individual Projects in Media Arts & Studies: Cr. 3 (Max. 6)

Minor in Film Studies

Completion of a minor in film studies requires nineteen credits including ENG 2450 / COM 2010 and any other selections from either the core or elective courses cited above under the Bachelor of Arts major program.
GEOGRAPHY

Office: 225 State Hall, 577-2701; Fax: 577-0022
Web: http://www.science.wayne.edu/~gup
Chairperson: Avis C. Vidal

Professors
Robert M. Boyle, Fred E. Dohrs (Emeritus), Robert J. Goodman (Emeritus), George J. Honzatko (Emeritus), Laura Reese, Robert Sinclair, Bryan Thompson (Emeritus), Alma H. Young

Associate Professor
Gary Sands

Assistant Professors
P. Anthony Brinkman, Kami Pothukuche

Lecturer
Richard Sauerzopf

Planner In Residence
Douglas Caruso

Adjunct Faculty
Sii-Monni Chabi, Jeffrey Horner, Darryl LaFlamme, Ernando Minghine, William James, Portia Reuben, Robert Turner, Paul Vigeant

Degree Programs
BACHELOR OF ARTS with a major in geography
MASTER OF ARTS with a major in geography
MASTER OF URBAN PLANNING

The discipline of geography is concerned with the analysis of environmental and social systems, their variations over the earth’s surface and their interactions in different regions. The undergraduate program has three major goals: (1) to provide students with a geographic framework for understanding global, regional and local issues and problems; (2) to prepare students for many occupations in which geographic understanding is essential, including retail location analysis, community and regional development, resource conservation and management, cartography, urban and environmental planning, and numerous government positions; and (3) to train students for advanced geographic research. Students are invited to consult with geography faculty members concerning the content of the discipline, as well as employment opportunities available for geographers.

Bachelor of Arts With a Major in Geography

Admission requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work, including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

Major Requirements: A major in geography requires completion of thirty-two credits in the Department. Unless an exception is granted by the Department, courses taken should include: GPH 1100, 2000 or 3130, 3020, 6420, and four other courses selected in consultation with a Departmental adviser.

Recommended Cognate Courses: The varied opportunities for specialization within geography warrant careful selection of cognate courses. Geography majors are encouraged to emphasize cognate courses in one or two disciplines. Choice of cognate courses should be discussed with Geography faculty.

Honors Program
Students with a grade point average of 3.3 or higher may be admitted to the Honors Program in Geography. The honors major must elect one semester of a 4000-level Honors Program seminar and accumulate at least fifteen credits in honors-designated course work. Honors courses from any department in the College, including this one, all contribute to the fifteen-credit requirement. The honors major student is permitted to follow a course of study somewhat independent of standard requirements, through the election of Honors Directed Study (GPH 4990). For information about other honors-designated coursework available each semester, including the required 4000-level Honors Program seminar, see the Liberal Arts section of the University Schedule of Classes, under ‘Honors Program.’

Minor in Geography
The discipline of geography complements expertise and understanding in many other disciplines selected as majors. It specifically addresses the spatial processes and variations over space as they impact economic, social, political, historical, criminal, commercial and other phenomena. The courses listed below for a minor in geography are basic to all aspects of spatial analyses. It is strongly recommended that the student minoring in geography consult with faculty concerning the most appropriate selection of courses to complement his or her interests. Requirements for a minor in geography are: twenty credits in geography including Geography 1100 and 3020.

GEOGRAPHY COURSES (GPH)
The following courses, numbered 0900-6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 481.

1100  (SS) World Regional Patterns. Cr. 4
Concepts and theory in analyzing areal relationships and distinguishing regional patterns of human activity; cultural factors and physical conditions (climate, landforms) as factors in regional delineations; comparisons and contrasts in regional economic development; analysis of concentrations/dispersals of human activity; local, national and regional phenomena in the interpretation of global patterns.

Urban phenomena both past and present, including the quality and nature of urban life; major concerns of urban areas; perspectives and techniques of various urban-related disciplines.

2200  Geography of Michigan. Cr. 3
The spatial physical, social, environmental, settlement and developmental patterns and problems of the State of Michigan.

2500  Geography of Africa. (AFS 2500) Cr. 4
Geography of modern Africa: regions, countries, peoples. Physical environment, resource potential, population groups, migrations, economics, development, political systems and conflicts.

2700  (P S 2700) Introduction to Canadian Studies. (ENG 2670) (HIS 2700) Cr. 3
Survey of Canada in its cultural, literary, historical, geographical and political aspects; key concepts and social patterns that define the Canadian experience.
3020  (WI) Spatial Organization: Concepts and Techniques. Cr. 3
Introduction to spatial organization concepts, survey research procedures and statistical techniques. Topics include: geographic problems, research design, models, data sources, sampling, questionnaire design and descriptive statistics. (Y)

3120  Cartography/Map Analysis. Cr. 4
Basic map design; coordinate systems; map symbology and text; scale; topographic, thematic and surface maps; surveying and land record systems; digital mapping; global positioning systems. (Y)

3130  (SS) Introductory Urban Geography. Cr. 4
An introduction to the geographer’s view of cities, with emphasis on the North American city. Topics include the pre-industrial city, migration, evolution of the American urban pattern, city classification, city-regional relationships, and the city’s internal structure (ethnic, residential, commercial, and industrial). (Y)

3200  (SS) Europe. Cr. 3
Analysis of European countries. Emphasis on population changes resource problems, industrial location, urbanization, regional development, and emerging economic and political units. (I)

3400  The Physical Landscape. Cr. 4
Physical processes such as running water, glaciers, wave and wind action, plus the resultant erosional and/or depositional landforms. (B)

3500  Introduction to Remote Sensing. Cr. 4
Prereq: familiarity with personal computers; introductory statistics recommended. Methodologies for the thematic extraction of earth resource information using computer-based image processing systems. (Y)

3600  Introduction to Geographic Information Systems. Cr. 4
Prereq: GPH 3120 and GPH 3500 or equiv. recommended. Theory and application of computer-based systems for the analysis and representation of spatial data. (Y)

3900  Topics in Geography. Cr. 3
Topics to be announced in Schedule of Classes. (B)

3990  Directed Study. Cr. 1-3 (Max. 9)
Prereq: consent of adviser. Readings and research. (T)

3991  Directed Study: Salford - W.S.U. Exchange. Cr. 3-9
Prereq: consent of departmental adviser. Open only to students admitted to Salford - WSU exchange. Courses available for lower division credit in geography for W.S.U. - Salford exchange. (F,W)

3993  (HIS 3993) Topics in Canadian History, Society, Politics, and Culture. (P S 3993) (ENG 3993) (SOC 3993) Cr. 1-4
Significant topics and issues in the development of Canadian history, society, politics, and culture. (F,W)

4510  (U S 4510) Cities and Regions. Cr. 4
Processes of urbanization and metropolitanization in both the western and non-western worlds. (W)

4600  Advanced Geographic Information Systems. Cr. 4
Prereq: GPH 3600 or equiv. Application of GIS to analyses of spatially-referenced data. (Y)

4650  GIS Practicum. Cr. 4
Prereq: GPH 4600 or equiv; written consent of instructor. Placement with public or private agency; supervised work experience utilizing GIS. (Y)

4990  Directed Study: Honors Program. Cr. 2-12 (Max. 16)
Prereq: consent of chairperson. (T)

5650  (GEG 5650) Metropolitan Detroit. Cr. 4
Comprehensive geographic analysis of metropolitan Detroit: city, suburbs and surrounding region. Historical development, physical foundations, economic and political expansion, ethnic and cultural areas, geopolitical infrastructure, social change, present-day problems and current events shaping the area’s spatial structure. (Y)

5750  (GEG 5750) Social and Economic Geography of the United States and Canada. Cr. 4
Human geography of North America: population distribution and change, economic geography and economic restructuring, the urban system and urban development, and changing social patterns and problems. (Y)

5991  (GEG 5991) Directed Study: Salford - W.S.U. Exchange. Cr. 3-9
Prereq: consent of departmental adviser. Open only to students admitted to Salford - WSU exchange. Courses available for upper division credit in geography for W.S.U. - Salford exchange. (F,W)

6150  (GEG 6150) Internal Structure of the City. (U P 5420) Cr. 4
Perception of the urban environment, spatial interaction and movement, models of structure and growth, migration to and within the city, ethnic and social areas, community extension, social processes and spatial form. (Y)

6240  (GEG 6240) Industrial Geography. (U P 5520) Cr. 4
Location of industry in theory and practice. Locational analysis of selected industries and selected manufacturing regions. Locational practices of multinational corporations, global transformation of manufacturing, industrial restructuring, industrial decline. Industries and services in a post-industrial economy. Industrial location and urban development. (B)

6280  (GEG 6280) Marketing Geography. (U P 5620) Cr. 4
Factors underlying retail location and shopping center development; evaluation of population, income levels, access and competition for location decisions; techniques applicable to sales potential/rent-up/sell-out estimates for retail units, housing developments, recreation facilities, office buildings; retail impact on urban land use; crime and commercial location; considerations for the elderly in commercial locations. (B)

6420  (U P 6320) Quantitative Techniques I. (GEG 6420) Cr. 4
Statistical inference with emphasis on applications including control tendency, dispersion, hypothesis testing, correlation and regression. (Y)

6510  (U P 6510) Urban and Regional Systems. (GEG 6510) Cr. 4
Theory course dealing with concepts, processes and organization of urban and metropolitan regions, primarily focusing on the western world experience. Some comparative perspective derived from non-western experiences. Primary focus on system structure and change. (Y)

6520  (GEG 6520) Independent Field Study. (U S 6505) Cr. 2-4
Prereq: consent of instructor; for Urban Studies students: U S 4010 and consent of instructor. Observation and interpretation of data in the field. Preparation, use and evaluation of classroom units in K-12; for pre-college teachers taking course for credit towards an advanced degree. Class preparations prior to travel; for K-12 teachers, classroom use and evaluation. Written reports. (Y)
GERMAN and SLAVIC STUDIES

Off: 443 Manoogian Hall; 577-3024; Fax 577-3266
Web site: http://www.worldbridge.wayne.edu/GermanSlavic/
Chairperson: Donald Haase

Professors
Penfith Goff (Emeritus), Edmund Ordon (Emeritus), Marvin Schindler (Emeritus), Guy Stem

Associate Professors
Achim Bonawitz (Emeritus), Kenneth Brostrom, Alfred Cobbs, Donald Haase

Assistant Professors
Frank J. Corliss, Jr. (Emeritus), Suzanne K. Hilgendorf, Lisabeth Hock

Senior Lecturer
Mark Ferguson

Lecturers
Alina Klin, Laura Kline

Adjunct Faculty
Hans-Peter Soeder, Dickran Toumajan

Degree Programs
BACHELOR OF ARTS with a major in German
BACHELOR OF ARTS with a major in Russian
BACHELOR OF ARTS with a major in Slavic Languages
*MASTER OF ARTS with a major in German
*MASTER OF ARTS with a major in Language Learning
*DOCTOR OF PHILOSOPHY with a major in modern languages

Bachelor of Arts Degrees
Admission Requirements for these programs are satisfied by the general requirements for undergraduate admission to the University; see page 15. Students who wish to major in one of the programs offered by the Department should consult with the adviser for that program as soon as possible.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements of one of the following programs. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

* For specific requirements, see the Wayne State University Graduate Bulletin.

— Major Requirements

Major Requirements in German: A major in German must satisfactorily complete thirty-one credits in German courses, including German 2020, 2310, 2710, 2720, 3100, 3200, 4600, 5100, 5993, and two courses in German on the 5000 or 6000 level. German majors must also take one course in the culture or literature of another country, offered by the Department of German and Slavic, and approved by the major adviser.

Major Requirements in Russian: Students majoring in Russian must complete satisfactorily Russian 2020, 3010 (eight credits), 3020 (eight credits), 3510, 5600, 5650, Slavic 2310, and one course in the culture or literature of another country, offered by the Department of German and Slavic, and approved by the major adviser. The Writing Intensive requirement is satisfied by taking RUS 5993.

Major Requirements in Slavic: Students majoring in Slavic are required to complete satisfactorily twenty-four credits in Russian or Polish as a concentration, and sixteen credits in Polish, Russian, or Ukrainian or the equivalent in another Slavic language, and one course in the literature of that language. Students should also take either Polish 5993 or Russian 5993, to satisfy the Writing Intensive requirement.

All majors are strongly urged to elect courses in cognate fields, such as geography, history, political science, or art history.

Minors and Cognate Study

Minor in German: Students wishing to obtain a minor in German shall complete German 2020, 2710, 2720, 3100, 3200, and 2310 or 2991.

Minor in Russian: Students wishing to obtain a minor in Russian are required to complete Russian 2020, 3010, 3020, 3510, 3600, and 3650.

‘AGRADE’ Program: Qualified seniors majoring in German may begin graduate study towards the M.A. in German through the Accelerated Graduate Enrollment (‘AGRADE’) Program. Students accepted in the program may expect to complete the bachelor’s and master’s degrees in five years of full-time study; they may elect from three to fifteen ‘AGRADE’ credits, which are used to complete the baccalaureate degree and also serve as graduate study credit. Interested students should contact the graduate or undergraduate adviser in German for more information.

Foreign Language Group Requirement

The student may satisfy the requirement by passing the first three courses in one language or by a special examination.

Courses: The courses numbered 1010, 1020, and 2010 are essentially a continuum designed to give students command of the basic elements of the language and insights into culture.

Placement: Students who wish to continue the study of a language begun in high school or in another college should take a placement test or consult with the Coordinator for Placement Examinations before registering. Contact the Department for placement information.

Honors in German and Slavic Studies

The Honors Program in German and Slavic Studies is open to students of superior academic ability who are majoring in this department. To be recommended for an honors degree from this department, a student must maintain a cumulative grade point average of at least 3.3. He/she must accumulate at least fifteen credits in honors-designated course work, including at least one 4000-level seminar offered through the Honors Program of the College of Liberal Arts (see the Schedule of Classes under ‘Honors Program’ for seminar topics), and the departmental credits associated with com-

College of Liberal Arts 263
Dual Degree Program in German and Mechanical Engineering

Qualified students may earn both a B.A. in German and a B.S. in Mechanical Engineering through a dual degree program offered by the Department of German and Slavic Studies and the Department of Mechanical Engineering. Students in this program must complete the requirements for a major in German through the College of Liberal Arts and the requirements for a major in Mechanical Engineering through the College of Engineering. This five-year course of study includes participation in the Junior Year in Munich Program and an internship while in Germany. Students with this dual major are eligible to apply for scholarships available through the Department of German and Slavic Studies and the Junior Year in Munich Program. For more information contact the major advisers in either German or Mechanical Engineering.

Study Abroad

Junior Year in Germany Program: Juniors, seniors, or graduate students who would like to spend a year studying at the University of Munich are encouraged to contact the Junior Year in Germany Office, 471/473 Manoogian Hall; (313) 577-4605; (jym@wayne.edu). For a more detailed description of the program see ‘Study Abroad,’ page 231.

Scholarships

Concordia Singing Society Foundation Scholarships for Study in Germany: Awards made annually to American undergraduate or graduate students for the study of language, music, arts or culture in Germany. Applications are available online and in the office year-round, and the deadline for submission is March 15. Three documents should be submitted with the completed application: 1) two letters of recommendation from teachers or professors; 2) a statement of purpose (250-500 words, typed, double-spaced) describing the applicant’s plans for study or independent research in Germany and how this experience will contribute to meeting his/her academic goals; 3) a current transcript. Number and amount of awards vary.

Uwe K. Faulhaber Scholarship for Undergraduate German Language Studies: Open to all officially-declared German majors and minors. Applications are available online and in the office year-round, and the deadline for submission is March 15. Three documents should be submitted with the completed application: 1) a copy of current Wayne State transcript; 2) one letter of recommendation from a Wayne State instructor, and 3) a one-page, typed, double-spaced essay explaining how the applicant perceives the role of German Studies in his/her undergraduate education and in life after graduation. Number and amount of awards vary.

Friends of German Studies Scholarship: Award open to undergraduates enrolled in German language, literature, or culture courses, offered through Wayne State German Studies Area. Awards made by faculty nomination.

German and Slavic General Scholarships: Awards made to students of German and Slavic languages, literature, and culture. Number and amount of awards vary. Awards made by faculty nomination.

Also see page 227, above, and the section on the Office of Scholarships and Financial Aid, page 20. For further information, contact the Department Office.

UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

OFFERED IN ENGLISH

No knowledge of a foreign language is presumed or required for the following courses, which are conducted in English with all readings in English. (For foreign language courses, see the section 'Foreign Language Instruction,' below.)

Armenian Cultural Studies in English Courses (ARM)

3410 (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (GER 3410) (POL 3410) (RUS 3410) (UKR 3410) Cr. 3

Armenian, German, Jewish, Polish, Russian and Ukrainian immigration to the United States, its effects on the cultures (language, literature, religion, politics, music, art and theatre) of these ethnic groups and its influence upon American culture.


Experts on Western and Eastern Europe present and provide the background to the developments now changing the political and cultural face of Eastern Europe. Topics include: unification of East and West Germany; cementing of the European community into a partner and rival of the United States.

4750 (FC) Survey of Armenian Culture and Literature: The Modern Period. Cr. 3

The great awakening: great expectations shattered by genocide. Dawn of new hope; cultural explosion in homeland and in the diaspora.

German Cultural Studies in English Courses (GER)

2310 (SLA 2310) (FC) Short Fiction from Central Europe and Russia. (GER 2310) Cr. 3

Explores how writers use short fictional forms, such as parable, short story, fairy tale, and satire, to express important themes in the Central European experience, including violence and cruelty, freedom and imprisonment, utopian visions, and urban life.

2700 (PL) Anguish and Commitment: European Existentialist Literature. (FRE 2700) (ITA 2700) (RUS 2700) (SPA 2700) Cr. 3-4

Only students in Honors Program may register for four credits. A team-taught interdisciplinary study in English of representative works by European existentialist writers: Dostoevsky, Hesse, Kafka, Svevo, Sartre, Camus and Saba

2710 (FC) Survey of Germanic Culture I. Cr. 3

Development of Germanic people from their origin to 1835; their major contributions of cultural significance to the Western world.

2720 (FC) Survey of Germanic Culture II. Cr. 3

Development of Germanic people from 1835 to the present; the Nazi period; and World War II.

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>ARM 3410</td>
<td>New Soil, Old Roots: The Immigrant Experience.</td>
<td>(FC)</td>
<td>(POL 3410) (RUS 3410) (UKR 3410) Cr. 3</td>
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<tr>
<td>ARM 3700</td>
<td>The Changing Face of Europe.</td>
<td>(ARM 3700) (GER 3700) (POL 3700) (UKR 3700) Cr. 1-2</td>
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<tr>
<td>ARM 3750</td>
<td>Polish and Yugoslavian Cinema Auteur.</td>
<td>(SLA 3750)</td>
<td>Cr. 3</td>
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<tr>
<td>ARM 3910</td>
<td>Fairy Tale's Meaning and Role in Western Society from the Brothers Grimm to Walt Disney.</td>
<td>(PL)</td>
<td>Understanding the Fairy Tale. Cr. 3</td>
</tr>
<tr>
<td>ARM 5350</td>
<td>Early German Film.</td>
<td>Cr. 3</td>
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<tr>
<td>ARM 5400</td>
<td>Cultural Studies and Criticism.</td>
<td>(GER 5400)</td>
<td>Cr. 3-4</td>
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<tr>
<td>POL 3310</td>
<td>Literature Before Communism.</td>
<td>Cr. 3</td>
<td></td>
</tr>
<tr>
<td>POL 3600</td>
<td>Literature Before Communism.</td>
<td>Cr. 3</td>
<td></td>
</tr>
<tr>
<td>POL 3710</td>
<td>Study of Russian Culture.</td>
<td>Cr. 3</td>
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<tr>
<td>POL 3750</td>
<td>New Soil, Old Roots: The Immigrant Experience.</td>
<td>(FC)</td>
<td>(GER 3410) (POL 3410) (RUS 3410) (UKR 3410) Cr. 3</td>
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<tr>
<td>POL 3790</td>
<td>The Changing Face of Europe.</td>
<td>(ARM 3700) (GER 3700) (POL 3700) (UKR 3700) Cr. 1-2</td>
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<tr>
<td>POL 3810</td>
<td>New Soil, Old Roots: The Immigrant Experience.</td>
<td>(FC)</td>
<td>(GER 3410) (POL 3410) (RUS 3410) (UKR 3410) Cr. 3</td>
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<tr>
<td>POL 3850</td>
<td>The Changing Face of Europe.</td>
<td>(ARM 3700) (GER 3700) (POL 3700) (UKR 3700) Cr. 1-2</td>
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</tbody>
</table>

**Strategies for Success**

- Complete all requirements within the specified time frame.
- Regularly consult with your academic advisor to ensure you are on track.
- Stay informed about any changes or updates to course offerings or requirements.
- Consider participating in study groups or tutoring to enhance your understanding and retention of course material.
- Seek out additional resources, such as textbooks, online articles, or other educational materials, to supplement your learning.

**College of Liberal Arts 265**
5400  Cultural Studies and Criticism. Cr. 3-4
Important concepts and major figures in Slavic contributions to literary and cultural studies. Readings and class in English. Open to students from diverse disciplines.  (I)

Ukrainian Cultural Studies in English Courses (UKR)

3410  (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410) (GER 3410) (POL 3410) (RUS 3410) (UKR 3410) Cr. 3
Armenian, German, Jewish, Polish, Russian and Ukrainian immigration to the United States, its effects on the cultures (language, literature, religion, politics, music, art and theatre) of these ethnic groups and its influence upon American culture.  (F)

3700  The Changing Face of Europe. (ARM 3700) (GER 3700) (POL 3700) (RUS 3700) (UKR 3700) Cr. 1-2
Experts on Western and Eastern Europe present and provide the background to the developments now changing the political and cultural face of Eastern Europe. Topics include: unification of East and West Germany; cementing of the European community into a partner and rival of the United States.  (W)

FOREIGN LANGUAGE INSTRUCTION

ARMENIAN COURSES (ARM)

1010  Elementary Armenian. Cr. 4
Introduction to sounds, spelling, speaking, reading, writing, grammar; emphasis on ability to speak and read Armenian. Introduction to ancient Armenian culture. Material fee as indicated in the Schedule of Classes.  (F)

1020  Elementary Armenian. Cr. 4
Prereq: ARM 1010 or equiv. Continuation of ARM 1010. Introduction to medieval Armenian culture. Material fee as indicated in the Schedule of Classes.  (W)

2010  (FC) Intermediate Armenian. Cr. 4
Prereq: ARM 1020 or equiv. Conversation, grammar, reading, composition. Introduction to modern Armenian culture. Material fee as indicated in the Schedule of Classes.  (F)

GERMAN COURSES (GER)

1010  Elementary German. Cr. 4
Development of ability to speak and read German. Material fee as indicated in the Schedule of Classes.  (T)

1020  Elementary German. Cr. 4
Prereq: GER 1010 or placement. Continuation of GER 1010. Material fee as indicated in the Schedule of Classes.  (T)

1060  Intensive German. Cr. 6
Prereq: previous knowledge or study of German or consent of instructor. Accelerated, intensive treatment of material normally treated in GER 1010 with a gradual slowing to treat the material in GER 1020. GER 1060 will accommodate learners with previous knowledge of the language while still providing them with review and practice, encouraging them to build on the knowledge of German they have.  (F,S)

2010  (FC) Intermediate German. Cr. 4
Prereq: GER 1020 or placement. Continuation of GER 1020. Reading of graded German literature and grammar review. Material fee as indicated in the Schedule of Classes.  (T)

2020  Intermediate German. Cr. 4
Prereq: GER 2020 or placement. Continuation of GER 2020.  (T)

2100  German for Business and Industry I. Cr. 4
Prereq: GER 2010 or equiv. Continuation of GER 2010. Acquisition of German language skills and practical expertise within the environment of business and industry in Germany. Study of German economy and industry provides context for practice in applied business communication and technical translation.  (Y)

2500  Speaking German. Cr. 1 (Max. 2)
Prereq. or coreq: GER 2010. Offered for S and U grades only. Students meet once weekly to participate in variety of speaking activities, such as presentations, role-playing and simulations, pair work exchanges, small or whole group discussions.  (T)

3100  Intermediate Composition and Conversation I. Cr. 3
Prereq: GER 2020 or equiv. German of common usage. Practical approach to contemporary idioms.  (Y)

3200  Intermediate Composition and Conversation II. Cr. 3
Prereq: GER 2020 or equiv. German of common usage. Practical approach to contemporary idioms.  (Y)

4100  Introduction to German Studies. Cr. 3
Prereq: GER 2020 or equiv. Basic introduction to reading literature and cultural texts in a German Studies context.  (F)

4600  Proseminar: Modern German Literature. Cr. 3
Prereq: consent of graduate adviser. Offered for S and U grades only. No Ph.D. degree credit. Controlled application of active language skills for students electing a Ph.D. in German.  (T)

5000  German Practicum. Cr. 3 (Max. 9)
Historical, cultural and critical aspects of German children’s literature; includes works for young children and adolescents.  (I)

5100  Advanced Composition and Conversation. Cr. 3
Prereq: GER 3100 or 3200 or equiv. Emphasizes improvement of student’s oral and written command of German. Detailed study of modern German syntax.  (B)

5300  Children’s Literature and Culture. (GER 7300) Cr. 3-4
Exiled writers and the Holocaust, from a literary and cultural perspective.  (I)

5390  Exile and Holocaust. (GER 7390) Cr. 3-4
Historical, cultural and critical aspects of German children’s literature; includes works for young children and adolescents.  (I)

5500  Pre-Moder Germany. (GER 7500) Cr. 3-4
Medieval period. Northern Renaissance, Reformation, and Baroque. Literary and nonliterary forms of representation, literary traditions and intellectual currents are examined within social, political and historical contexts.  (I)

5560  Romanticism. (GER 7650) Cr. 3-4 (Max. 8)
German Romantic literature and thought in a European context. Survey of Romanticism as a period is linked to studies of specific writers, genres, and cultural developments.  (I)

5670  Literature in the Age of Industrial Revolution. (GER 7670) Cr. 3-4 (Max. 8)
Nineteenth-century literary and cultural texts emanating from the period of rising industrialization in the German-speaking world.  (I)
5720  Enlightenment and Sturm und Drang. (GER 7720)  
Cr. 3-4 (Max. 8)  
Lessing, the Storm and Stress movement, Goethe, Schiller; literary and cultural achievements.  (I)  

5730  The Classical Age. (GER 7730) Cr. 3-4 (Max. 8)  
Goethe, Schiller, and the literary background of Weimar and German Classicism.  (I)  

5750  (ENG 5750) Theories of Second Language Acquisition. (CLA 5750) (FRE 5750) (ITA 5750) (LIN 5750) Cr. 3  
Investigation of theories in second language acquisition. Review of research in development of second language competence: acquisition of phonology, lexicon, semantics, syntax, discourse, and pragmatics.  (I)  

5770  Modernism. (GER 7770) Cr. 3-4 (Max. 8)  
Fin-de-siecle Germany and Austria, modernism and the metropolis, modernism and the new media (film, radio), art and politics of the Weimar Republic.  (I)  

5780  Texts and Contexts Since 1945. Cr. 3-4 (Max. 8)  
Recent and contemporary literary and cultural works in context of the political, social and intellectual developments since 1945.  (I)  

5790  Topics in German Studies. (GER 7790) Cr. 1-4 (Max. 12)  
Special topics in German studies, focusing on culture, literature, language, or area studies. Topics to be announced in Schedule of classes.  (I)  

5800  Literature and Cultures of Minorities. (GER 7800) Cr. 3-4  
Focuses on literature by and about marginalized groups and on their cultures in postwar Germany.  (I)  

5810  (FRE 5810) Teaching Foreign Languages: Receptive Skills. (CLA 5810) (CLA 7810) (FRE 7810) (GER 7810) (LED 5810) (LED 7810) Cr. 3  
Prereq: GER 5850 or consent of instructor. Latest research on acquisition of reading and listening skills in a foreign language. Difference between receptive and productive language use; how methods of foreign language teaching treat the instruction of receptive skills.  (B)  

5820  (FRE 5820) Teaching Foreign Languages: Productive Skills. (CLA 5820) (CLA 7820) (FRE 7820) (GER 7820) (LED 5820) (LED 7820) Cr. 3  
Prereq: GER 5850 or consent of instructor. Current research on acquisition of speaking and writing skills in a foreign language. Difference between productive and receptive language use; how various methods of foreign language teaching treat the instruction of productive skills.  (B)  

5830  Technology in the Foreign Language Classroom. (CLA 5830) (CLA 7830) (FRE 5830) (FRE 7830) (GER 5830) (LED 5830) (LED 5830) (LED 7830) (LED 7830) Cr. 3  
Prereq: GER 5850 or consent of instructor. Types of current technology; review of research on effectiveness of language classroom technologies; evaluation of technologies; development of activities for use in classroom.  (B)  

5850  Second Language Instruction: Theory and Methods. (CLA 5850) (CLA 7850) (FRE 5850) (FRE 7850) (GER 5850) (LED 5850) (LED 7850) (LED 7850) Cr. 3  
Theoretical basis of second language teaching models; historical overview of methodologies; current trends in teaching of reading, writing, listening, speaking, and culture. Implications of methodology on materials, classroom techniques, and testing.  (B)  

5860  Foreign Language Testing. (CLA 5860) (CLA 7860) (FRE 5860) (FRE 7860) (GER 7860) (LED 5860) (LED 7860) Cr. 3  
Means of assessing students' knowledge of a foreign language. Topics include: ACTFL Oral Proficiency Interview; testing of reading, writing speaking and listening skills; means of testing grammar and culture; testing as it relates to program goals.  (Y)  

5990  Directed Study. Cr. 1-4 (Max. 8)  
Undergrad. prereq: written consent of German adviser; grad. prereq: written consent of German graduate adviser and chairperson.  (T)  

5993  (WI) Writing Intensive Course in German. Cr. 0  
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: GER 4600 or any 5000-level German literature course. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a course designated as a corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement.  (F,W)  

6100  Critical Approaches to German Studies. Cr. 3-4  
Prereq: consent of major adviser required for undergraduates. Major critical approaches to German literature and cultural texts, and the questions and problems that drive contemporary German studies.  (B)  

POLISH COURSES (POL)  

1010  Elementary Polish. Cr. 4  
Sounds, spelling, vocabulary, forms, syntax as basis for reading and conversation. Material fee as indicated in the Schedule of Classes.  (T)  

1020  Elementary Polish. Cr. 4  
Prereq: POL 1010 or equiv. Continuation of POL 1010. Material fee as indicated in the Schedule of Classes.  (T)  

2010  (FC) Intermediate Polish. Cr. 4  
Prereq: POL 1020 or equiv. Development and practice of basic language skills to increase proficiency in Polish; contemporary Polish culture and current issues. Material fee as indicated in the Schedule of Classes.  (T)  

2060  Composition and Conversation. Cr. 1-4 (Max. 8)  
Prereq: POL 2010 or placement examination. For students with rudimentary knowledge of Polish. Four skills modules: listening and comprehension (offered Monday); conversation (Tuesday); reading and comprehension (Thursday); and writing (Friday). Student may choose which language skill (or skills) they want to master, up to four credits per semester.  (Y)  

3030  Language Skills: Advanced Speaking and Writing. Cr. 2-4  
Prereq: POL 2060 or equiv. Original texts and audio-visual materials used to further knowledge of Polish culture and develop language skills. Students may focus on listening and speaking, and/or reading and writing.  (W)  

3990  Directed Study. Cr. 1-3 (Max. 6)  
Prereq: POL 2010 or equiv., written consent of chairperson. For students desiring additional work in the language at the intermediate level; for programs of work not included in scheduled course, either in language or literature.  (T)  

5990  Directed Study. Cr. 1-3 (Max. 12)  
Prereq: POL 3020 or equiv., written consent of chairperson.  (T)  

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RUSSIAN COURSES (RUS)

1010  Elementary Russian. Cr. 4
Development of practical skills in speaking, understanding, reading, and writing contemporary Russian. Material fee as indicated in the Schedule of Classes. (T)

1020  Elementary Russian. Cr. 4
Prereq: RUS 1010 or equiv. Continuing development of the four skills in contemporary Russian. Material fee as indicated in the Schedule of Classes. (T)

2010  (FC) Intermediate Russian. Cr. 4
Prereq: RUS 1020 or equiv. Continuation of RUS 1020 with emphasis on developing speaking and reading skills. Material fee as indicated in the Schedule of Classes. (T)

2020  Intermediate Russian. Cr. 4
Prereq: RUS 2010 or equiv. Objectives begun in RUS 2010; at more advanced level. (W)

3010  Intermediate-Advanced Russian I. Cr. 4 (Max. 8)
Prereq: RUS 2020 or equiv. Further development of skills; taught in two tracks at fifth- and seventh-semester levels, with both combined and individualized activities. (Y)

3020  Intermediate-Advanced Russian II. Cr. 4 (Max. 8)
Prereq: RUS 3010. Taught in two tracks at sixth- and eighth-semester levels; both combined and individualized instruction. (F)

3050  Russian Practicum. Cr. 3
Prereq: RUS 3010 or consent of Russian major adviser. Internship with local Russian businesses and non-profit organizations to enable students to use Russian in real-life settings. (F,W)

3650  (PL) Twentieth Century Russian Literature. Cr. 3
Russian literature in the twentieth century as country develops from feudal decay to totalitarian superpower. Universal human issues within personal experience of war, revolution, political terror and dictatorship, and collapse of Soviet Union. Taught in English; readings in English. (Y)

3990  Directed Study. Cr. 1-3 (Max. 6)
Prereq: RUS 2010 or equiv.; written consent of chairperson. For students desiring additional work in the language at the intermediate level; for programs of work not included in scheduled courses, either in language or literature. (T)

5600  Major Russian Writers. Cr. 3-4
For advanced undergraduate and graduate students interested in literature. Major nineteenth-century authors: Pushkin, Dostoevsky, Chekhov, Tolstoy, others. Close readings of works introduce traditions and character types within historical and socio-cultural contexts; relevant intellectual, religious, political concerns. Taught in English; readings in English or Russian. (F)

5650  Love, War, and Revolution in Russian Literature. Cr. 3-4
Prereq: consent of instructor. For advanced undergraduate and graduate students interested in literature. Close analysis of major twentieth-century works; overview of social, political, and cultural developments. Russian modernism, Socialist Realism, political dissidence in literature, emerging developments in post-Soviet period. Taught in English; readings in English or Russian. (W)

5990  Directed Study. Cr. 1-3 (Max. 12)
Prereq: undergrad., written consent of chairperson; grad., written consent of chairperson and graduate officer. For students who wish credit for program of work not included in regularly scheduled courses, either in language or in literature. Knowledge of Russian required. (T)

5993  (WI) Writing Intensive Course in Russian. Cr. 0
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: any 3000-, 4000-, or 5000-level Russian literature course. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a course designated as a corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. (F,W)

UKRAINIAN COURSES (UKR)

1010  Elementary Ukrainian. Cr. 4
Sounds, spelling, vocabulary, forms, syntax as a basis for reading and conversation. Material fee as indicated in the Schedule of Classes. (F)

1020  Elementary Ukrainian. Cr. 4
Prereq: UKR 1010 or equiv. Continuation of UKR 1010. Material fee as indicated in the Schedule of Classes. (W)

2010  (FC) Intermediate Ukrainian. Cr. 4
Prereq: UKR 1020 or equiv. Study in-depth of structure and syntax based on reading. Oral and written practice. Material fee as indicated in the Schedule of Classes. (F)

3990  Directed Study. Cr. 1-3 (Max. 6)
Prereq: UKR 2010 or equiv.; written consent of chairperson. For students desiring additional work in the language at the intermediate level; for programs of work not included in scheduled courses, either language or literature. (T)

5860  (MKT 5860) The Cultural Environment of Ukrainian Business. Cr. 3
Prereq: upper division standing, consent of instructor. Culture and history of the Newly Independent States (NIS). History, past cultural achievements, commercial evolution in Ukraine as compared to other cultures. Topics include: Stalinist repression, Khruschev thaw, 1960s Renaissance, implosion of Soviet empire. (Y)

5990  Directed Study. Cr. 1-3 (Max. 12)
Prereq: UKR 3020 or equiv.; written consent of chairperson. No graduate credit. For students who wish credit for program of work not included in regularly scheduled courses, either in language or in literature. (T)
Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College; see sections beginning on page 23, 38, and 223. The minimum requirement for a major in history is thirty-three credits, distributed according to the following five requirements:

* For specific requirements, see the Wayne State University Graduate Bulletin.
Classes under ‘Honors Program,’ or consult the Director of the Honors Program (577-3030).

Minor in History
The minimum requirement for a minor in history is eighteen credits, of which at least fourteen must be from classes at the 3000 level or 5000 level.

‘AGRADE’ Program
The History Department permits academically superior majors in their senior year to participate in the ‘AGRADE’ Program (Accelerated Graduate Enrollment). Those admitted by the Department may enroll in courses that count toward both a B.A. and a M.A. For further information, consult with the Departmental Chairperson or Undergraduate Adviser.

Honors, Awards, and Scholarships
Phi Alpha Theta: Undergraduates and graduate students who demonstrate excellence in their history courses are eligible for election to the chapter of Phi Alpha Theta sponsored by the Department. The international honor society in history, Phi Alpha Theta, offers annual cash prizes to student members, sponsors conferences, and publishes a scholarly journal, The Historian. History majors and other history students interested in joining should inquire at the Department.

Mark and Linee Diem Scholarship. Awards full tuition for the senior year to the outstanding history major finishing the junior year.

F. Richard Place Memorial Award: Given to the outstanding senior paper produced by an undergraduate history major in the Capstone Course. The annual award is worth up to $500.

Rolf and Jennie Johannesen Memorial Scholarship: Annual award worth up to $500 to undergraduate and graduate students in history, whose research is in either classical civilization or, more broadly, the effects of the classical period on later eras.

HISTORY COURSES (HIS)
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

1000 World Civilization to 1500. Cr. 3-4
Survey of ancient and medieval history from the Neolithic Revolution to 1500. (T)

1050 (AI) American Civilization Since World War II. Cr. 3-4
Recent American ideas, institutions, and social movements within the broad context of global change and conflicts. (B)

1100 (HS) The Ancient World. Cr. 3-4
From prehistory to the break up of Mediterranean unity. (T)

1200 (HS) The Medieval World. Cr. 3-4
Medieval civilization from the barbarian invasions to the Renaissance. (T)

1300 (HS) Europe and the World: 1500-1945. Cr. 3-4
No credit after HIS 2870 or HIS 1990. The rise of the modern West and the response of the non-West from the age of Columbus to the age of Hitler: the foundations of the contemporary world. (T)

1400 (HS) The World Since 1945. Cr. 3-4
No credit after HIS 1040. Selected topics in world history since 1945, including: impact of World War II on Europe and European empires, bipolar division of the world between the United States and the Soviet Union; the international order and relations between the industrial nations (First World) and the developing nations (Third World). (T)

1600 (HS) African Civilizations to 1800. Cr. 3-4
No credit after former HIS 2400. Africa from ancient Egypt to the Atlantic slave trade. Emphasis on state-building; regional and international commercial network and their role in economic, political, and socio-cultural change. (T)

1610 (HS) African Civilizations Since 1800. Cr. 3-4
No credit after former HIS 2410. The origins of contemporary Africa, nineteenth century state-building, spread of Islamic religion, establishment of European empires, independence struggles, problems of independence. (T)

1700 East Asian Civilizations to 1840. Cr. 3
Traditional East Asian culture and civilization; introduction to origins, growth, and development of the traditional societies of China, Korea, and Japan from remote antiquity until about 1840. (I)

1710 History of Modern East Asia. (N E 2110) Cr. 3
From beginning of nineteenth century to the present; emphasis on political, social, economic developments in China, Japan and Korea. (I)

1800 (N E 2030) (HS) The Age of Islamic Empires: 600-1600. Cr. 3
Historical evolution of the Islamic world from birth of Islam to height of Ottoman Empire. Islamic history and civilization in a world-historical context; developments indigenous to specific regions, such as Islamic Spain. (Y)

1810 (N E 2040) (HS) The Modern Middle East. Cr. 3
Survey of Middle East history in modern era, focusing on the nineteenth and twentieth centuries. Ottoman history from 1600: impact of European imperialism and nationalist movements, resulting in development of modern state systems, regional/national conflicts, Islamic response to modernization. (Y)

1995 (HS) Society and the Economic Transition. Cr. 3
Historical survey of the interaction between technological change, socio-economic systems, and culture. Multi-disciplinary studies of hunting, agrarian, and industrial societies. (F)

Urban phenomena, past and present, quality and nature of urban life, major concerns of urban areas; perspectives and techniques of various urban-related disciplines. (T)

2040 United States to 1877. Cr. 3-4
American experience with colonialism, revolution and nation building. (T)

2050 United States Since 1877. Cr. 3-4
Industrialization, urbanization, and emergence of the United States as a world power. (T)

2240 History of Michigan. Cr. 3-4
Social, economic development of the state, from French explorations to the present. (B)

2320 (N E 2020) Survey of Jewish History and Civilization. Cr. 3
History of the Jewish people from their origins to the contemporary period. Development of the Jewish community and the Jewish religion in relation to the hegemonic cultures of those regions in which there was major Jewish settlement. (I)
2430 (CBS 2430) History of Latinos in the United States. Cr. 3
Historical development of people of Hispanic descent in the United States from the early nineteenth century to the present. Cultural conflict, interaction of political, social, and economic forces. (F)

2440 (CBS 2410) (FC) History of Mexico. Cr. 3
Historical development of Mexico and the Mexican people from the Spanish conquest to the present. Interaction of political, social, economic and cultural influences. (F)

2500 (PCS 2000) Introduction to Peace and Conflict Studies. (P S 2820) Cr. 3
Required for the peace and conflict studies co-major. A variety of approaches to the origins, processes, and resolution or management of conflict in all human systems from the individual to the nation-state. (Y)

2510 (PHY 2020) Science, Technology, and War. (P S 2440) (PCS 2020) Cr. 4
May not be used to fulfill natural science group requirement. Not open to students who took this topic in HIS 3995. Modern weapons, nuclear and otherwise, becoming increasingly available and dangerous; people with grievances eager to use them. Science and technology behind weapons development and use; impact of technologies on prospects and results of war and peace. Constraints of career, bureaucracy and society on development, deployment, and use of weapons. History of humanity and its tools of war. (B)

2520 (PCS 2010) Topics in Peace and Conflict Studies. (P S 2830) Cr. 1-4
Special topics relating to peace and conflict studies. (Y)

2530 (PCS 2050) The Study of Non-Violence. (P S 2550) (SOC 2050) Cr. 3
Intellectual and social roots of non-violence and the practice of non-violence in different people's life styles. (Y)

2700 (P S 2700) Introduction to Canadian Studies. (ENG 2670) (GPH 2700) Cr. 3
Survey of Canada in its cultural, literary, historical, geographical and political aspects; key concepts and social patterns that define the Canadian experience. (Y)

3050 United States and the Vietnam Experience. Cr. 4
The United States' involvement in Vietnam; military, domestic and diplomatic impact. (Y)

3140 The Black Experience in America I: 1619-1865. (AFS 3140) Cr. 3-4
African origins of the American black; transition from freedom to slavery; status of the black under slavery. (F)

3150 (HIS 3150) The Black Experience in America II: 1865 to the Present. Cr. 3-4
The black in national life since emancipation. (W)

3160 (AFS 3160) Black Urban History. Cr. 4
Historical experience of African Americans in urban areas; impact of their communities on urban development from 1860 to contemporary times. (F, W)

3170 Ethnicity and Race in American Life. (AFS 3170) (AFS 6170) (HIS 6170) Cr. 3-4
Exploration of complicated relationship between ethnic and racial diversity and the making of America. Using historical, literary, and cultural readings and sources to examine key themes: Who was the 'Other'? What is an 'American'? (B)

3190 History of American Business. Cr. 3
Major innovators and leaders as entrepreneurs, as corporate managers, and as business statesmen from colonial era to present. Special attention to American values and government policies. (B)

3240 (P S 3250) Detroit Politics: Continuity and Change in City and Suburbs. (ULM 3250) Cr. 4
Detroit area political systems and processes, historical, economic, and social influences on local politics. Traditions, changes, and future challenges in Detroit and metropolitan area. (B)

3250 The Family in History. Cr. 3-4
Only Honors Program students may elect for four credits. Comparative survey emphasizing the transformation from traditional patterns of family life to family and kin in modern industrial society; students research their own family histories. (B)

3300 Technology in America. Cr. 3-4
Technological change in the United States from European settlements to the present; impact of technology in American society; meaning of technology in American culture; history of technologies used in agriculture, manufacturing, transportation, communication, and warfare. (B)

3320 (N E 3040) Twentieth Century Middle East. Cr. 3
The contemporary Middle East; emphasis on social and economic development. Investigation of issues that identify the region, such as oil, gender issues, fundamentalism, and regional conflicts. (Y)

3330 Civilizations of the Nile Valley: Egypt and Nubia. Cr. 4
From Neolithic era to the seventh century of our era. (B)

3360 (AFS 3360) Black Workers in American History. Cr. 4
Survey course. Slave and free workers during antebellum period; skill trades, sharecropping, menial labor, coal mining during Reconstruction; labor struggles and job discrimination in the twentieth century. (F, W)

3400 The Automobile and Society: Europe, America, and Japan. Cr. 4
History of the design, production, and use of the automobile in Europe, the United States, and Japan, from 1885 to the present; impact of automobile on society and culture. (B)

3991 Directed Study: Salford - W.S.U. Exchange. Cr. 3-9
Prereq: consent of departmental adviser. Open only to students admitted to Salford-WSU Exchange Program. Directed study at University of Salford, England. (F, W)

3993 Topics in Canadian History, Society, Politics, and Culture. (P S 3993) (GPH 3993) (ENG 3993) (SOC 3993) Cr. 1-4
Significant topics and issues in the development of Canadian history, society, politics, and culture. (F, W)

3995 Special Topics in History. Cr. 1-4 (Max. 8)
Specialized and topical studies in historical events, personalities and themes. Topics to be announced in Schedule of Classes. (T)

3996 Topics in African History. Cr. 1-4 (Max. 8)
Topics to be announced in Schedule of Classes. (I)

3998 Topics in American History. Cr. 1-4 (Max. 8)
Topics to be announced in Schedule of Classes. (I)

4990 Directed Study. Cr. 1-6
Prereq: consent of chairperson. (T)

4997 Internship in Historical Museums. Cr. 3
Prereq: consent of chairperson. Open only to majors. Offered for S and U grades only. Training in local historical museums and agencies in all aspects of museum administration and service. (T)

5010 British North America to 1789. (HIS 7010) Cr. 4
Prereq: HIS 2040. Expansion of British empire to North America, interaction among European, Native American, and African peoples,
and development of New World institutions and culture through the framing of the American constitution.

5030 Early American Republic: 1789-1850. (HIS 7030) Cr. 4
Emphasis on the political culture with special attention to the founding of the American Republic, the emergence of a modern economy, slavery, social reform, and the sectional crisis. (B)

5040 Civil War and Reconstruction: 1850-1877. (HIS 7040) Cr. 4
Emphasis on the coming of the Civil War, the war’s impact on American society, and the reconstruction of the United States after the war. (B)

5050 The Emergence of Modern America: 1877-1917. (HIS 7050) Cr. 4
Emphasis on the rise of big business, social and intellectual change, protest movements and government policies. (B)

5060 Modern America: 1917-1945. (HIS 7060) Cr. 4
Analysis of economic and social problems, politics, and government policies. (B)

5070 Contemporary American History: 1945 to the Present. (HIS 7070) Cr. 4
Social, political, intellectual, economic, diplomatic, and cultural trends in the United States since World War II. (B)

5090 Constitutional History of the United States from 1937 to the Present. (HIS 7090) Cr. 3
U.S. constitutional development since the Judicial Revolution of 1937, emphasizing New Deal constitutionalism, dramatic shifts in the role of courts and the executive branch, civil rights movements, and modern rights consciousness. (B)

5110 (ULM 6100) Class, Race, and Politics in America. (AFS 6100) (P S 6050) (SOC 7330) (U P 7030) Cr. 3
Prereq: senior standing or consent of instructor. Historical and analytic investigation into the role of class and race in American politics. (Y)

5120 American Foreign Relations to 1933. (HIS 7120) Cr. 4
United States involvement in the international system from the Revolution through World War I and Versailles. Emphasis on the War of 1812 and the Mexican and Spanish-American Wars. (B)

5130 American Foreign Relations Since 1933. (HIS 7130) Cr. 4
United States involvement in the international system from the twenties to the present. Emphasis on World War II to Vietnam and the role of the United States in the Cold War and the Third World. (B)

5160 Constitutional History of the United States to 1860. (HIS 7160) Cr. 4
Anglo-American constitutional development from European expansion and New World Settlement through the onset of the Civil War. Changing relationship between colonies and imperial center, emergence of revolutionary republic in North America, framing of new constitutional orders, nineteenth-century developments through 1860. (B)

5170 Constitutional History of the United States from 1860 to 1940. (HIS 7170) Cr. 4
United States constitutional development from the beginning of Civil War through the Judicial Revolution of 1937. Emergence of new constitutional agenda between 1860 and the 1890s. Progressive constitutionalism, changes in relations between branches of government and in the federation, New Deal constitutionalism, and struggles for enfranchisement of blacks and women. (B)

5190 History of American Social Thought. (HIS 7190) Cr. 4
Social thought and ideologies from the colonial era to the recent past, including Puritanism, the Enlightenment, Transcendentalism, Darwinism, Pragmatism, and the social sciences; emphasis on major figures and social context. (B)

5200 Women in American Life and Thought. (HIS 7200) Cr. 3
Role of women in the development of American society and in women’s movements. (B)

5210 The Peopling of Modern America, 1790-1914: A History of Immigration. (HIS 7210) Cr. 3-4
Causes and consequences of immigration; immigrants and labor; immigrant culture and institutions; relationship between immigration, industrialization, and urbanization; racism, nativism, and immigration restriction. (B)

5220 The Changing Shape of Ethnic America: World War I to the Present. (HIS 7220) Cr. 3-4
Assimilation, cultural pluralism and the ‘melting pot,’ persistence of ethnic cultures; class and ethnicity; internal migrations; America’s recent immigrants; race and ethnic relations in the city; the ‘new ethnicity.’ (B)

5251 History of Feminism. (HIS 7251) (W S 7020) Cr. 4
An upper division - graduate level course on the main ideological, intellectual, and political sources and developments in the history of feminism in the United States. (B)

5280 American Legal History. (HIS 7280) Cr. 4
Non-technical survey of relationships between private law and a developing American society from earliest settlement to the present. Emphasis on evolving conceptions of civil authority and private right, the legal profession, legal education, the law of slavery, and doctrinal developments touching property, labor, women, children, and others. (I)

5290 (ECO 5490) American Labor History. (HIS 7290) Cr. 4
Analysis of American workers and unions in the nineteenth and twentieth centuries. (B)

5300 Economic History of the United States. (HIS 7300) Cr. 4
Economic growth and development of the United States from origins to present. Emphasis on transformation from agrarian to industrial society and its social and economic impact. (B)

5320 (AFS 5320) Black Labor History. Cr. 3
Prereq: upper division standing. Offered for undergraduate credit only. History of black labor from the colonial period to the present. Topics include the development of a dual racial labor system in America; black workers in the development and evolution of the American labor movement; and black responses to white working class behavior. (B)

5330 History of Ancient Greece. (HIS 7330) Cr. 3
Ancient Greek culture, emphasizing political events, social and economic institutions, cultural achievements. (B)

5340 History of Ancient Rome. (HIS 7340) Cr. 3
Institutional and cultural development. (B)

5350 The Hellenistic Period. (HIS 7350) Cr. 3
Social and economic developments, Alexandrian science, and Hellenization of the East from Alexander the Great to the Roman conquest of the eastern Mediterranean. (B)

5360 The Early Middle Ages: 300-1000. (HIS 7360) Cr. 3
Interaction of Roman, Christian and barbarian elements in the emergence of Europe as a cultural entity between the fourth and tenth centuries. (B)

5370 The High Middle Ages: 1000-1300. (HIS 7370) Cr. 3
Economic, social and cultural developments that transformed Western European civilization during the eleventh, twelfth and thirteenth centuries. (B)
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5380  The Renaissance. (HIS 7380) Cr. 3
Europe in an age of transition between the fourteenth century and about 1530; Italian cultural and intellectual developments within a social and political context. (B)

5390  Europe in the Age of Reformation. (HIS 7390) Cr. 3
Protestant and Catholic reformation seen in the context of social, economic, and political conditions of the sixteenth and seventeenth centuries. (B)

5410  The French Revolution and Napoleon. (HIS 7410) Cr. 4
The dramatic changes of the late eighteenth and early nineteenth centuries. (B)

5420  The Rise of the European Working Class: 1750-1850. (HIS 7420) Cr. 3
The impact of capitalism on peasant society; the transformation of handicraft industry; the emergence of the factory proletariat; class conflict and the working class movement in Europe’s revolutionary age. (B)

5440  Twentieth Century Europe. (HIS 7440) Cr. 4
Total war and disillusionment, attempts to restore stability and security, totalitarianism as an answer, more war and reconstruction, a divided Europe, the search for Europe’s place in the world. (Y)

5450  The Age of Ideology: Europe in the Interwar Period. (HIS 7450) Cr. 4
Social and cultural trends in modern European society; ideological struggles of interwar period. Topics include: impact of World War I; development of communism, fascism, nazism; Freud and the liberal defense; existentialism; postwar disillusionment. (Y)

5460  History of the Holocaust. Cr. 4
Holocaust as a tragic conjuncture of general European and Jewish history. Topics include: development of anti-semitism in Europe and the rise of Nazism; European Jewry in the interwar period; the Third Reich’s treatment of the ‘Jewish Question’ in the 1930s; Jewish resistance; fate of the survivors; implications of the Holocaust for contemporary society. (Y)

5480  Nazi Germany. (HIS 7480) Cr. 3-4
Hitler and Nazi Germany. Topics include: impact of World War I, the Weimar Republic, the growth of the Nazi party, the seizure of power, internal and foreign policies, and the war experience. (B)

5490  Russian History through the Revolution. (HIS 7490) Cr. 4
Development and transformation of state power, with particular attention to those economic and social elements peculiar to Russia. (Y)

5500  The Soviet Union. (HIS 7500) Cr. 4
Bolshevik seizure of power, collectivization of agriculture and forced-draft industrialization, Nazi German invasion, Khrushchev and deStalinization, predominance of the new middle class, nationality problems, problems of detente. (Y)

5530  History of World War I and II. (HIS 7530) Cr. 4
A military history of the two world wars of the twentieth century. (B)

5550  Britain 1485-1714. (HIS 7550) Cr. 4
Impact of religious, political and social change on British people during sixteenth, seventeenth, and early eighteenth centuries. (I)

5620  The Rise of the European Working Class: 1750-1850. (HIS 7620) Cr. 3
The impact of capitalism on peasant society; the transformation of handicraft industry; the emergence of the factory proletariat; class conflict and the working class movement in Europe’s revolutionary age. (B)

5660  France Since 1815. (HIS 7660) Cr. 4
Struggle between old and new political forces, impact of industrialization, search for freedom with order, effect of total war, problems of decolonialization and European integration, cultural transformations. (Y)

5730  The History of West Africa. (HIS 7730) Cr. 4
West African states; Islam and socio-political change; the termination of the Atlantic slave trade; European conquest; West African resistance and the Colonial experience; nationalism and independence. (B)

5740  History of South Africa. (HIS 7740) Cr. 4
Historical origins of Apartheid with emphasis on nineteenth and twentieth century, including Dutch and British settlement, African state building, the mineral revolution, European racism, African resistance and nationalisms. (B)

5805  History of Modern Japan. (HIS 7805) (N E 5751) Cr. 4
Modern Japanese history from late Tokugawa period to the present. (Y)

5808  Women in Japanese History. (HIS 7808) (N E 5752) Cr. 4
From ancient times to the present. (B)

5991  Directed Study: Salford - W.S.U. Exchange. Cr. 3-9
Prereq: consent of departmental adviser. Open only to students admitted to Salford-WSU Exchange Program. Directed study at University of Salford, England. (F,W)

5993  (WI) Writing Intensive Course in History. Cr. 0
Prereq: junior standing, consent of chairperson and instructor, satisfactory completion of English Proficiency Examination; coreq: any 5000-level History course. Offered for S and U grades only. Open only to majors. Required for all majors. Students write term paper of approximately twenty typed pages, including footnotes and annotated bibliography. Must be selected in conjunction with a course designated as a corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. (F,W)

5995  Honors Seminar. Cr. 3
Prereq: consent of chairperson; honors standing in history. (T)

5996  Capstone Course for Majors. Cr. 3
Prereq: consent of chairperson. Open only to majors. (I)

6000  Studies in Comparative History. Cr. 2-4
Topics to be announced in Schedule of Classes. (B)

6010  Studies in American History. Cr. 2-4 (Max. 9)
Topics to be announced in Schedule of Classes. (Y)

6170  (HIS 3170) (AFS 3170) (AFS 6170) Studies in Ethnicity and Race in American Life. (AFS 3170) (AFS 6170) Cr. 3-4
Exploration of complicated relationship between ethnic and racial diversity and the making of America. Using historical, literary, and cultural readings and sources to examine key themes: Who was the ‘Other’? What is an ‘American’? (B)

6190  History of American Business. Cr. 3
Major innovators and leaders as entrepreneurs, as corporate managers, and as business statesmen from colonial era to present. Special attention to American values and government policies. (W)
HONORS PROGRAM

Office: 2311 Faculty/Administration Building; 577-3030
Director: Jerry Herron; 2311 Faculty/Administration Building; 577-3030
Adviser: Karen M. Gurney, 2136 Helen Newberry Joy Student Services Center; 577-2680
Web: http://www.cla.wayne.edu/honors

The Honors Program is designed for highly motivated students with superior abilities. Undergraduates in any college or department may, if eligible, take honors courses. Typically, honors classes are small and are taught by members of the regular faculty.

Eligibility: To enroll in honors courses, students must have at least a 3.3 cumulative grade point average at Wayne State University. Entering freshmen should have a high school grade point average of at least 3.5, and students transferring from a community college a 3.3 g.p.a. (Freshmen may substitute acceptable ACT or SAT scores in lieu of grade point averages.) Continuing students with a 3.3 g.p.a., or better for twenty-four successive credits are also eligible to enter the Honors Program. Students may take as few as or as many honors courses as they wish; all courses are so noted on the transcript. Qualified students may elect: Honors Program courses, honors sections of departmental courses, departmental courses open only to honors students, honors thesis or essay or project courses, honors-option courses, courses with an honors component, and honors directed studies. Students normally will earn many of their honors-designated credits in courses that also fulfill University General Education Requirements (see page 23).

Honors Degrees: Students seeking a degree with Departmental Honors must contact their major department or the Honors Program Office for specific requirements (see the appropriate departmental section of this Bulletin). However, all departmental honors programs require (1) at least twelve credits in honors-designated course work, including (2) a senior essay or thesis or project done in the student’s major department, and (3) at least one 4200-level seminar offered through the Honors Program (HON 4200-4280). A g.p.a. of 3.3 (higher in some departments) is required for graduation, together with a 3.3 g.p.a. in honors work. Any honors-designated course work may be included in the twelve honors credits.

Students pursuing a degree with University Honors will follow a course of study consisting of (1) at least twenty-four credits in honors-designated course work, including (2) a senior thesis or essay or project, and (3) one 4200-level seminar offered by the Honors Program (HON 4200-4280). A g.p.a. of 3.3 or higher is required for graduation, together with a 3.3 g.p.a. in honors work. Any honors designated course work may be included in the twenty-four honors credits.

A student who satisfactorily completes a Departmental Honors curriculum or University Honors will receive the appropriate Honors designation on both the diploma and the academic transcript. Approval of the Honors Program is necessary for graduation with Departmental or University Honors.

Additional Benefits of the Honors Program: Other features of the Honors Program include special faculty advising, guest lectures, participation in regional and national meetings of the National Collegiate Honors Council, an Honors Student Lounge (2311 Faculty/Administration Building), an Honors Group Study Room in the Undergraduate Library, and the opportunity to participate in Honors student groups such as the newsletter staff and the social activities committee. Honors majors may also receive research awards to support their senior theses or projects.

Honors Sections and Departmental Courses

The following departmental courses either have honors sections or are open only to honors students. These courses (when scheduled) will be listed under the Honors Program in the University Schedule of Classes. All departmental honors thesis or essay courses are listed only under the respective departmental headings in this Bulletin and the Schedule of Classes. For descriptions of the courses in the following partial list, see the appropriate Departmental sections of this Bulletin.

ANT 2100 -- (SS) Introduction to Anthropology: Cr. 3-4
ANT 3110 -- Detroit Minorities: Arabs, Hispanics, African Americans: Cr. 3-4
ANT 4999 -- Honors Research and Thesis: Cr. 3-6
A H 1120 -- (VP) Renaissance through Modern Art Survey: Cr. 3-4
BIO 1030 -- (LS) Biology Today: Cr. 3-4
BIO 1050 -- (LS) An Introduction to Life: Cr. 3-4
BIO 1500 -- Basic Life Diversity: Cr. 4
BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 3-4
BIO 6990 -- Honors Directed Study in Biology: Cr. 1-2
BIO 6997 -- Senior Seminar: Honors Program: Cr. 2
BIO 6999 -- Terminal Essay: Honors Program: Cr. 2
CHM 1410 -- (PS) Principles I: General and Organic: Cr. 6
CHM 1420 -- Principles II: Organic: Cr. 6
CHM 5998 -- Honors Thesis Research in Chemistry: Cr. 2-4
CLA 1010 -- (PL) Classical Civilization: Cr. 3-4
CLA 2000 -- Greek Mythology: Cr. 3-4
CLA 2100 -- Classical Origins of Western Thought: Cr. 3
CRJ 4998 -- Honors Thesis in Criminal Justice: Cr. 3-6
CSC 4999 -- Honors Thesis in Computer Science: Cr. 3-6
ECO 2010 -- (SS) Principles of Microeconomics: Cr. 3-4
ECO 2020 -- (SS) Principles of Macroeconomics: Cr. 3-4
ECO 4997 -- Senior Honors Seminar: Cr. 4
ENG 1050 -- (BC) Freshman Honors: English I: Cr. 4
ENG 2050 -- (IC) Freshman Honors: English II: Cr. 4
ENG 4990 -- Directed Study: Honors Program: Cr. 3-6
ENG 4991 -- Honors Seminar: Cr. 3-6
ENG 4992 -- Honors Project: Cr. 3
FRE 2700 -- (PL) Anguish & Commitment: European Existentialist Lit: Cr. 3-4
GER 2700 -- (PL) Anguish & Commitment: European Existentialist Lit: Cr. 3-4
GPH 4990 -- Directed Study: Honors Program: Cr. 2-12
HIS 1200 -- (HS) Medieval World: Cr. 3-4
HIS 1300 -- (HS) Europe and the World: 1500-1945: Cr. 3-4
HIS 1400 -- (HS) Europe and the World: 1500-1945: Cr. 3-4
HIS 3250 -- The Family in History: Cr. 3-4
HUM 2200 -- (PL) Sophomore Hon. Colloquium in Humanities: Cr. 4
HUM 3030 -- Music-Theatre-Cinema: Cr. 3
ITA 2210 -- (HS) Principles of Microeconomics: Cr. 3-4
MAT 2010 -- Calculus I: Cr. 4
MAT 2020 -- Calculus II: Cr. 4
MAT 2030 -- Calculus III: Cr. 4
NFS 2210 -- Human Nutrition: Cr. 3-4
NFS 5999 -- Honors Directed Study: Cr. 3-6
PHI 1020 -- (PL) Honors Intro. to Philosophical Systems: Cr. 3-4
PHI 1040 -- (PL) Honors Intro. to Philosophical Problems: Cr. 3-4
PHI 1300 -- (PL) Honors Intro. to Symbolic Logic: Cr. 3
PHI 2320 -- (PL) Introduction to Ethics: Cr. 3-4
PHI 3550 -- (PL) Metaphysics: Cr. 3
PHI 3600 -- Space, Time and the Philosophy of Physics: Cr. 3
PHI 4870 -- Honors Directed Reading: Cr. 4
PHI 4890 -- Honors Proseminar: Cr. 4
PHY 1040 -- (PS) Einstein, Relativity and Quanta: Cr. 3-4
P S 1010 -- (AI) American Government: Cr. 4
P S 4995 -- Senior Honors Paper: Cr. 4
Honors-Option Coursework

The Honors Option allows a student in any course above the 1000 introductory level taught by a regular faculty member to elect honors type work, provided the instructor agrees to furnish commensurate extra instruction. If a grade of 'B' or above is earned in the course and in the additional work, the student will receive honors credit for the course on the transcript. Application forms for the Honors Option are available in the Honors Program Office. The application form must be signed by the instructor and departmental honors adviser and should be returned to the Honors Program Office by the end of the third week of classes. The completed form must then be returned to the Honors Program Office at the end of the semester.

HONORS COURSES (HON)

The following courses, numbered 0900-6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 481.

2100  (CLA 2100) (PL) Classical Origins of Western Thought. Cr. 3
Prereq: for HON students: minimum 3.3 cumulative g.p.a. (3.5 g.p.a. for entering freshmen). Classical foundations of contemporary Western Thought. Topics include: relations between the sexes, democracy, slavery, war, social criticism, rationality, relations between parents and children, literature and the performing arts. (Y)

4200  (PL) Seminar in Philosophy and Letters. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of meanings given to human experience through study of philosophy or letters. Honors variant of an approved PL course in General Education Program. (Y)

4210  (SS) Seminar in Social Sciences. Cr. 3
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of major institutions in society and their roles in those institutions. Honors variant of an approved SS course in General Education Program. (Y)

4220  (LS) Seminar in Life Science. Cr. 3
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of aspects, methods, and important issues in various areas of the life sciences. Honors variant of an approved LS course in General Education Program. (Y)

4230  (PS) Seminar in Physical Science. Cr. 3
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of modern theory and data, implications and possibilities in the physical sciences. Honors variant of an approved PS course in the General Education Program. (Y)

4240  (VP) Seminar in Visual and Performing Arts. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of ways the visual or performing arts may be appreciated, evaluated, and criticized. Honors variant of an approved VP course in the General Education Program. (Y)

4250  (HS) Seminar in Historical Studies. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Studies of periods of history in which there has been major transition or change. Honors variant of an approved HS course in General Education Program. (Y)

4260  (FC) Seminar in Foreign Culture. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Humanistic or social science investigation of peoples and institutions in other cultures. Honors variant of an approved FC course in General Education Program. (Y)

4270  (AI) Seminar in American Society and Institutions. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Study of American society, its institutions and social change. Honors variant of an approved AI course in General Education Program. (Y)

4280  General Honors Seminar. Cr. 3
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. In-depth exploration of important concepts and approaches in liberal studies. Topics to be announced in Schedule of Classes. (Y)

4990  Directed Study. Cr. 2-4 (Max. 16)
Prereq: 3.3 g.p.a. and written consent of director. (T)

4998  University Honors Thesis. Cr. 3-6
Prereq: junior or senior standing and consent of University Honors Program Director. Open only to University honors students. For students not concurrently in departmental/college Honors program. (T)
The Humanities Program focuses on the symbolic ways in which human beings represent their experience. By means of a multidisciplinary, interdisciplinary and comparative approach, it examines relationships among such diverse humanistic disciplines as art, music, literature, history, language and philosophy from both topical/theoretical and historical perspectives. Courses are designed to serve two curricular needs:

1. Those so designated and approved may be taken to fulfill portions of the University General Education Program (see page 23), and the College of Liberal Arts Group Requirements (see page 223).
2. Some may serve as electives or cognates for students majoring in other disciplines.

HUMANITIES COURSES (HUM)

The following courses, numbered 0900-6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 481.

1010 (VP) Introduction to Art and Music in Western Civilization. Cr. 4
Carefully selected examples from the visual arts and music placed in appropriate contexts from antiquity to the present. Museum and listening assignments supplement the lectures. (T)

1020 (VP) Experiencing the Arts. Cr. 3-4
Developing the skills to experience (look, listen, read) such artistic media as art, music, and poetry. Considering how such skills relate to the manner in which meaning is communicated. Specific media to be announced in Schedule of Classes. (T)

1030 (VP) Exploring the Arts in Detroit. Cr. 4
Examination of the role played by urban institutions in creating, preserving, and transmitting humanistic concepts and the imaginative products of the human mind. Systematic survey of those institutions in metropolitan Detroit which have assumed or been assigned responsibility for communicating these ideas to succeeding generations and for providing continued access to such artifacts. A lecture-field work format assures maximum opportunity for direct access and experience. (T)

1130 Practicum in Humanities. Cr. 1 (Max. 3) (FLD: 1)
Prereq. or coreq: HUM 1010, 1020, 1030, 2100, or 2110. Attending and reviewing assigned performances and exhibitions related to HUM 1010, HUM 1020, HUM 1030, or HUM 2100. (T)

2000 (IC) Reading and Writing About the Arts. Cr. 3
Prereq: ENG 1020. Examination of ways in which various modes of expression (e.g., painting, music, drama) and related examples of expository (critical) prose communicate meaning for the purpose of improving analytical skills and writing ability. (T)
INTERNATIONAL STUDIES

Office: 355 Manoogian Hall; 577-8072; Fax: 577-2738
Program Director: Bruce S. Morgan
Advisory Committee
Anthropology: Mark L. Weiss
Economics: Allen C. Goodman
English: Renata M. Wasserman
German and Slavic Studies: Donald Haase
Linguistics: Martha Ratliff
Political Science: Charles D. Elder
Romance Languages and Literatures: Louis Kibler

Co-Major or Minor in International Studies
The interdisciplinary program in international studies serves to broaden the educational horizons of undergraduates; it offers co-major and minor concentrations of study. This program draws upon a combination of subjects which provides students with a distinctive body of knowledge and perspectives essential to ensure their competence in an emerging global market. Students in all majors who add International Studies to their curriculum can expect to gain knowledge of world cultures, politics, economics, geography, and languages. With this enhanced competitive edge, students will be better able to master national and international job markets and to advance their future careers.

The core requirements of the International Studies Program offer foundational knowledge from five different disciplines, while the wide range of elective courses enables students to acquire a variety of intercultural skills or to develop specialized knowledge of a particular area or region of the world.

MINOR REQUIREMENTS: Students must fulfill the core requirements and take one elective course, for a minimum of eighteen credits; additional electives are allowed.

CO-MAJOR REQUIREMENTS: Students must fulfill the core requirements and elect a minimum of fifteen additional credits in elective courses, for a total of thirty-two credits. For information on elective courses, for a total of thirty-two credits. For information on the program, contact Dr. Bruce Morgan (577-8072).

Core Requirements
ANT 3100 -- Cultures of the World: Cr. 3-4
GPH 1100 -- (SS) World Regional Patterns: Cr. 4
HIS 1400 -- (HS) The World Since 1945: Cr. 3-4
LIN 2730 -- (ENG 2730) Languages of the World: Cr. 3
P S 2710 or P S 2810
-- Introduction to Comparative Politics: Cr. 4
-- World Politics: Cr. 4

Courses included in the International Studies Program may also count toward satisfaction of the University General Education Requirements and College of Liberal Arts group requirements.

For more information about the Program, consult the Program Director, Dr. Bruce Morgan, 355 Manoogian Hall.

LEGAL STUDIES

Office: 3369 Law School; 577-3947
Web: http://www.law.wayne.edu/cls
Interim Director: Steven L. Winter
Center Faculty: Brad R. Roth
Academic Services Officer: Enoch Baker

Associated Faculty
Sheldon Alexander, Psychology
James Chalmers, Political Science
John Corvino, Philosophy
Susan Fino, Political Science
Anne Rawls, Sociology
Stephen Spurr, Economics
Sandra VanBurkleo, History
Robert Yanal, Philosophy
Marvin Zalman, Criminal Justice

Interdisciplinary Minor in Legal Studies
The College of Liberal Arts offers a Minor in Legal Studies for undergraduate students majoring in other disciplines. The Minor in Legal Studies program consists of twenty-one credits, typically six or seven courses. Students must also complete any prerequisite courses required to enroll in a course satisfying the minor requirements. This minor is intended to provide a broad understanding of law as a fundamental component of human societies. The notation of the minor will appear on the student’s transcript but not the diploma. Declaration of the minor will be made by the student only when filing for graduation. Students planning to minor in legal studies are strongly encouraged to consult with the Program Director not later than the beginning of their senior year.

MINOR REQUIREMENTS: Successful completion of a minimum of twenty-one credits, including: 1) at least seventeen credits outside the student’s major; 2) LGS 2010 -- Introduction to Legal Studies; 3) at least three courses from Group I consistent with the requirements listed below; 4) not more than one course from Group III; 5) courses from at least three different departments.

Substitution of courses not listed below may be made with prior written consent of the Director.

Group I (three courses must be elected from this group)
The three courses required from Group I must be from more than one sub-group and more than one department. Additional courses from Group I may also be counted toward the twenty-one credits required for the minor.

Sub-Group A — Substantive Law
CRIMINAL JUSTICE
CRJ 5710 -- Constitutional Criminal Procedure: Cr. 4
CRJ 5720 -- Criminal Law: Cr. 4
AMERICAN CONSTITUTIONAL LAW
P S 5110 -- Constitutional Law: Cr. 4
P S 5120 -- Constitutional Rights and Liberties: Cr. 4
INTERNATIONAL LAW
P S 5820 -- International Law: Cr. 4
P S 5850 -- Human Rights: Cr. 4

Sub-Group B — Historical Approaches
AMERICAN LEGAL HISTORY
HIS 5280 -- American Legal History: Cr. 4
AMERICAN CONSTITUTIONAL HISTORY
HIS 5090 -- Constitutional History of the U.S.: 1937 to Present: Cr. 3
HIS 5160 -- Constitutional History of the U.S. to 1860: Cr. 4
HIS 5170 -- Constitutional History of the U.S.: 1860-1940: Cr. 4

ANCIENT LEGAL HISTORY
CLA 3100 -- Law and Ancient Society: Cr. 3-4

Sub-Group C — Theoretical Aspects

LEGAL PHILOSOPHY
PHI 3270 -- Foundations of Law: Cr. 3
PHI 5270 -- Philosophy of Law: Cr. 4

MORAL PHILOSOPHY
PHI 1100 -- (PL) Contemporary Moral Issues: Cr. 3
PHI 2320 -- (PL) Introduction to Ethics: Cr. 3-4
PHI 5280 -- History of Ethics: Cr. 4
PHI 5300 -- Twentieth Century Analytic Ethics: Cr. 4

NORMATIVE POLITICAL THEORY
PHI 2330 -- Intro. to Social and Political Philosophy: Cr. 3
PHI 5240 -- Special Topics in Social and Political Philosophy: Cr. 4
P S 3510 -- (PL) Law, Authority, and Rebellion: Cr. 4
P S 3520 -- (PL) Justice: Cr. 4

Sub-Group D — Social Science Approaches

SOCIOLOGY OF LAW
SOC 5810 -- Law in Human Society (CRJ 5810): Cr. 3
SOC 3820 -- Criminology: Cr. 3

SOCIOLOGY OF RACE AND THE LAW
AFS 3860 -- Race, Class, & the Criminal Justice Sys.: Cr. 3
AFS 5580 -- Law and the African American Exp. (SOC 5580): Cr. 4

LAW AND POLITICS
P S 3100 -- American Legal Systems and Processes: Cr. 4

LAW AND ECONOMICS
ECO 5250 -- Economic Analysis of the Law: Cr. 4

Sub-Group E — Capstone

LGS 5999 -- Interdisciplinary Seminar in Legal Studies: Cr. 3

Group II

ISP 3060 -- Law: Analysis and Writing: Cr. 4
ANT 6170 -- Political Anthropology: Cr. 3
CRJ 3120 -- Politics of the Criminal Justice Process (P S 3120): Cr. 4
CRJ 4300 -- Corrections (SOC 3840): Cr. 4
CRJ 4400 -- Introduction to the Judicial Process: Cr. 4
CRJ 5060 -- Comparative Criminal Justice Systems: Cr. 3
ECO 5210 -- Market Power and Economic Welfare: Cr. 4
ECO 5500 -- Public Finance: Taxation and Expenditure Theory: Cr. 4
ECO 5510 -- Public Choice: Cr. 4
HIS 5310 -- Social Justice in America (HIS 7310): Cr. 4
PCS 2000 -- Intro. to Peace & Conflict Studies: Cr. 3
PCS 5000 -- Dispute Resolution: Cr. 3
PHI 1110 -- Ethical Issues in Health Care: Cr. 3
P S 6120 -- Administrative Law and Regulatory Politics: Cr. 4
SOC 4800 -- Outsiders, Outcasts, and Social Deviants: Cr. 3
SOC 6860 -- Organized Crime: History & Social Structure: Cr. 3
COM 5110 -- Studies of Argument: Cr. 3

Group III (not more than one course may be elected)

ACC 3510 -- Business Law I: Cr. 3
ACC 5170 -- Taxes on Income: Cr. 3
ACC 5190 -- Business Law II: Cr. 3
C E 5810 -- Legal Aspects of Engineering Problems: Cr. 3
CRJ 4410 -- The Juvenile Justice System: Cr. 4
CRJ 6750 -- Administrative Law in Criminal Justice: Cr. 3
FPC 5020 -- Legal Environment of the Arts: Cr. 3
GEG 5810 -- (GPH 5810) Haz. Waste Mgt. (HWM 5810): Cr. 3
KIN 6640 -- Legal Issues in Health, Phys. Ed. & Recreation: Cr. 3
HWM 5540 -- Law & Admin. Issues in Hazardous Waste Mgt. I: Cr. 2
LBS 4500 -- Applied Labor Studies: Labor Law: Cr. 3
LGS 5000 -- Legal Studies Internship: Cr. 1-3
LGS 5991 -- Directed Study: Cr. 1-4
MGT 5740 -- Collective Bargaining: Cr. 3
PPR 3120 -- Pharmacy and Jurisprudence: Cr. 2
PPR 6100 -- Legal Environment in Pharmacy: Cr. 3
P S 3170 -- The Living Constitution: Cr. 4
COM 5090 -- History and Law of American Journalism: Cr. 4
U P 5110 -- Urban Planning Process: Cr. 3
U P 6650 -- Planning and Development Law: Cr. 3

LEGAL STUDIES COURSES (LGS)
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

2010 Introduction to Legal Studies. Cr. 3
Nature of legal systems and functions of law in society. Elements of American legal system and basic concepts in American law. Legal theory and its application to contemporary issues (e.g., crime, free speech, civil rights).

5000 Legal Studies Internship. Cr. 1-3
Prereq: LGS 2010 and consent of program director. May not be used to satisfy Group I or II requirements for Minor in Legal Studies. Offered for S and U grades only. Students work up to twelve hours per week in internship placement with a legal studies component, such as City of Detroit Law Department or other government agency including local area courts, or with a private agency. Students meet once per week with faculty member; final project synthesizing legal studies course work. Students may not be paid for internship work.

5991 Directed Study. Cr. 1-4
Prereq: consent of instructor. May not be used to satisfy the Group I requirement for the minor in Legal Studies. Advanced reading and research in legal studies.

5999 Interdisciplinary Seminar in Legal Studies. Cr. 3
Prereq: LGS 2010 or consent of instructor. Primarily for juniors and seniors pursuing the Minor in Legal Studies. Application of methods from the social sciences and humanities as applied to study of contemporary legal controversies.
Bachelor of Arts
With a Major in Linguistics

**Admission Requirements** for this program are satisfied by the requirements for general undergraduate admission to the University; see page 15.

**DEGREE REQUIREMENTS:** Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 23), the College Group Requirements (see page 223), and the following major requirements. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

The bachelor of arts program consists of a basic core of general linguistics courses which all majors must complete. In addition to the core courses, the student is to pursue one of the following concentrations: (a) linguistics and a language, (b) syntax and semantics, (c) language variation and change, (d) language acquisition and processing, (e) sociolinguistics and discourse/pragmatics, and (f) individualized program.

Programs are to be planned in consultation with the linguistics program adviser. A student must complete a minimum of twenty-eight credits in core and concentration courses to satisfy the major requirements.

**CORE COURSES:**

- LIN 5700 -- Introduction to Linguistic Theory: Cr. 3
- LIN 5290 -- Phonology: Cr. 3
- LIN 5300 -- Syntax: Cr. 3

**CONCENTRATIONS:**

(a) **Linguistics and a Language**

The student must complete at least nine credits in advanced language skills or in the linguistics of the chosen language. The nine credits in advanced language skills should be planned in consultation with the adviser.

(b) **Syntax and Semantics**

Students must elect at least nine credits from the following, in consultation with the adviser:

- LIN 1850 or LIN 1860
  -- Introductory Symbolic Logic: Cr. 3
  -- Honors Symbolic Logic: Cr. 3
- LIN 5720 -- Topics in Language: Semantics: Cr. 3
- LIN 5720 -- Topics in Language: Morphology: Cr. 3
- LIN 5720 -- Topics in Language: Typology: Cr. 3
- LIN 5730 -- Traditional Grammar: Cr. 3
- LIN 5700 -- Introduction to Linguistic Theory: Cr. 3
- LIN 6710 -- Psycholinguistics: Cr. 3
- LIN 5300 -- Syntax: Cr. 3

**Students may select from the following electives:**

- LIN 5290 -- Phonology: Cr. 3
- LIN 5720 -- Topics in Language: Morphology: Cr. 3
- LIN 5720 -- Topics in Language: Typology: Cr. 3
- LIN 5730 -- Traditional Grammar: Cr. 3
- LIN 6710 -- Psycholinguistics: Cr. 3
- LIN 5570 -- Philosophy of Language: Cr. 4

(c) **Language Variation and Change**

Students must elect at least nine credits from the following, in consultation with the adviser:

- LIN 2730 -- Languages of the World: Cr. 3
- LIN 2750 -- African American English: Cr. 3
- LIN 3080 -- African American English: Cr. 3
- LIN 5050 -- Advanced Symbolic Logic: Cr. 4
- LIN 5200 -- Modal Logic: Cr. 4
- LIN 5230 -- Structure of Arabic: Cr. 3
- LIN 5570 -- Philosophy of Language: Cr. 4

* For specific requirements, see the Wayne State University Graduate Bulletin.

---

**Linguistics**

**Office:** Room 4025, 51 West Warren; 577-8642
**e-mail:** linguistics@wayne.edu

**Director:** Patricia Siple

**Participating Faculty**

Jean Andruski, Assistant Professor, Audiology and Speech-Language Pathology
Anthony Aristar, Associate Professor, English
Catherine Barrette, Assistant Professor, Romance Languages and Literatures
Ellen Barton, Professor, English
Eugenia Casielles-Suarez, Assistant Professor, Romance Languages and Literatures
D’Jaris Coles, Assistant Professor, Audiology and Speech-Language Pathology
Walter Edwards, Professor, English
Joel Itzkowitz, Associate Professor, Greek and Latin
Alexis Manaster-Ramer, Professor, Computer Science
T. Michael McKinsey, Professor, Philosophy
Bruce Morgan, Assistant Professor, English
Geoffrey S. Nathan, Associate Professor, English
Kate Paesani, Assistant Professor, Romance Languages and Literatures
Ljiljana Progovac, Associate Professor, English
Martha Ratliff, Associate Professor, English
Aleya Rouchdy, Professor, Near Eastern and Asian Studies
Patricia Siple, Associate Professor, Psychology
Frances Trix, Associate Professor, Anthropology
Margaret E. Winters, Professor, Romance Languages and Literatures
Lee Wurm, Assistant Professor, Psychology

**Degree Programs**

**Bachelor of Arts with a major in linguistics**

**MASTER OF ARTS in Linguistics**

Linguistics is devoted to the scientific study of language structure and use. The Linguistics Program at Wayne State offers an interdisciplinary approach to this field, permitting students to explore a wide range of topics and issues in language research. Three core courses are offered on a regular basis: introduction to linguistic theory, phonology, and syntax. The program offers concentrations in the following areas: (a) linguistics and a language, (b) syntax and semantics, (c) language variation and change, (d) language acquisition and processing, (e) sociolinguistics and discourse/pragmatics, and (f) individualized program.

Training in linguistics prepares students for advanced work in linguistic research, as well as for employment in teaching English and foreign languages; computer systems (especially natural language processing); broadcasting, mass media and journalism; publishing and editing; translation; international business; intercultural communication and negotiation; law; and generally any profession requiring the precise use or analysis of speech or writing.

The Linguistics Program is administered by a director and an advisory committee of participating faculty who regularly teach courses for the program.

* For specific requirements, see the Wayne State University Graduate Bulletin.
Students may select from the following electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 5720</td>
<td>Topics in Language: Language Variation</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5760</td>
<td>American Dialects</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5770</td>
<td>Sociolinguistics</td>
<td>3</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 5310</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5320</td>
<td>Language and Societies</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5720</td>
<td>Topics in Language: Morphology</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5720</td>
<td>Topics in Language: Field Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

(d) Language Acquisition and Processing

Students must select at least nine credits from the following, in consultation with the adviser:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 3080</td>
<td>Cognitive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5080</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5360</td>
<td>Normal Language Acquisition and Usage</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5750</td>
<td>Theories of Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LIN 6710</td>
<td>Psycholinguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may select from the following electives:

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>LIN 2750</td>
<td>African American English</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3010</td>
<td>Statistical Methods in Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 3090</td>
<td>Cognitive Psychology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PSY 3120</td>
<td>Brain and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SLP 5300</td>
<td>Intro. to Speech-Language Pathology</td>
<td>3-4</td>
</tr>
<tr>
<td>LIN 5310</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ARB 5100</td>
<td>Teaching Arabic as a Foreign/Second Language</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5760</td>
<td>American Dialects</td>
<td>3</td>
</tr>
</tbody>
</table>

(e) Sociolinguistics and Discourse/Pragmatics

Students must select at least nine credits from the following, in consultation with the adviser:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 2750</td>
<td>African American English</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5310</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5320</td>
<td>Language and Societies</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5720</td>
<td>Topics in Language: Pragmatics</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5720</td>
<td>Topics in Language: Language Variation</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5720</td>
<td>Topics in Language: Gender</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5760</td>
<td>American Dialects</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5770</td>
<td>Sociolinguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may select from the following electives:

<table>
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<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 2730</td>
<td>Languages of the World</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3010</td>
<td>Statistical Methods in Psychology</td>
<td>4</td>
</tr>
<tr>
<td>LIN 5210</td>
<td>Arabic Sociolinguistics</td>
<td>3</td>
</tr>
<tr>
<td>ANT 5210</td>
<td>Anthropological Methods</td>
<td>3</td>
</tr>
<tr>
<td>LIN 5720</td>
<td>Topics in Language: Historical Linguistics</td>
<td>3</td>
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<tr>
<td>LIN 5730</td>
<td>Traditional Grammar</td>
<td>3</td>
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</tbody>
</table>

(f) Individualized Program

A student may design a concentration to meet an individualized program. The special concentration must be approved by the adviser before the student has completed a maximum of nine credits in the major.

‘AGRADE’ Program

The Linguistics Program invites academically superior majors to petition for admission to the ‘AGRADE’ (Accelerated Graduate Enrollment) Program. ‘AGRADE’ procedures enable qualified seniors to enroll simultaneously in the undergraduate and graduate programs in Linguistics and to apply a maximum of fifteen credits toward both a bachelor’s and a master’s degree. Students admitted to the ‘AGRADE’ Program may be able to complete both degrees in five years of full-time study.

An ‘AGRADE’ applicant should petition for admission to the Student Adviser for the Linguistics Program. Applications will be accepted no earlier than the semester in which ninety credits are completed. Applicants must have an overall grade point average at the cum laude level (approximately 3.4) and not less than a 3.6 g.p.a. in the major courses already completed. If a student’s petition is accepted, a designated faculty adviser will develop a Graduate Plan of Work, specifying the ‘AGRADE’ courses to be included in subsequent semesters.

For more details about the ‘AGRADE’ Program, contact the Linguistics Program office: 313-577-8642; or by e-mail at: linguistics@wayne.edu

Minor in Linguistics

A minor consists of the three core courses (LIN 5700, 5290, 5300) plus nine additional credits in the Linguistics program. Programs should be planned in consultation with an adviser.

LINGUISTICS COURSES (LIN)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

1700 (ENG 1700) English Grammar. (LIN 1700) Cr. 3

Intensive course in the rules of English grammar, especially those rules needed for written work in college. Explication of the linguistic principles inherent in the rules of usage. (Y)

1850 (PHI 1850) Introductory Symbolic Logic. Cr. 3

The logic of propositions; the general logic of predicates and relations. (T)

1860 (PHI 1860) Honors Symbolic Logic. Cr. 3

Open only to Honors students. See LIN 1850. (T)

2720 (ENG 2720) (PL) Basic Concepts in Linguistics. Cr. 3

Prereq: ENG 1020 or equiv. Analysis of the structure and use of language, focusing on English, from the standpoint of current linguistic practice. Topics include: phonetics and sound structure, word structure, syntax, semantics, language origin and history, dialects, language learning and animal communication, and language in social interaction. (T)

2730 (ENG 2730) Languages of the World. Cr. 3

Prereq: ENG 1020. Survey of structure of major language families of the world, western and non-western; interrelationships of language and culture; universals and variations of universals in language and culture. (Y)

2750 (SLP 2750) African American English. Cr. 3

Structure, content, use, and history of African American English (also known as Ebonics) from its origins to the present. (W)

3080 (PSY 3080) Cognitive Psychology: Fundamental Processes. Cr. 3

Prereq: PSY 1010 or equiv. Fundamental theories, concepts, and empirical findings in study of human cognition. Topics include: thinking, problem solving, language comprehension and production, memory and attention. (Y)

5050 (PHI 5050) Advanced Symbolic Logic. Cr. 4

Prereq: junior, senior, or graduate standing. Formal, extensive treatment of first-order predicate logic with emphasis on the notions of a formal logical language and truth in a model; the logic of identity; definite descriptions; brief introductions to set theory and the meta-theory of propositional and first-order logic; some additional advanced topics to be selected by the instructor. (Y)
5080 (SLP 5080) Phonetics. Cr. 3
Multisensory study of sounds in the English language, emphasizing acoustic, physiologic, kinesiologic approaches. Material fee as indicated in the Schedule of Classes. (F)

5200 (PHI 5200) Modal Logic. Cr. 4
Prereq: PHI 1850 or PHI 1860 or consent of instructor. The logic of necessity, possibility, and other modal notions as they occur in epistemic and deontic contexts. (B)

5210 (ARB 5210) Arabic Sociolinguistics. (N 5210) Cr. 3
No knowledge of Arabic required. Arabic dialectology; Arabic as a minority language in contact. Theories and techniques developed outside Arabic, and their applicability to Arabic situations. (F)

5230 (ARB 5230) Structure of Arabic. (N 5230) Cr. 3
No knowledge of Arabic required. Survey of historical constitution and theoretical structure of Arabic. (Y)

5290 (ENG 5710) Phonology. Cr. 3
Prereq: LIN 5700. The sound systems of a variety of human languages compared and contrasted in an introduction to the diversity and similarities in human sound systems. Theories of the nature of sound systems and methods of analysis in phonology and morphology will be presented. (B)

5300 (ENG 5740) Syntax. Cr. 3
Prereq: LIN 5700. The theory of grammatical systems examined through analysis of sentence and word formation in a variety of human languages. Diversity and universals in grammar and theories of syntax. (B)

5310 (ANT 5310) Language and Culture. Cr. 3
Prereq: ANT 2100 or ANT 5200 or SOC 2010 or consent of instructor. Interconnections of language and culture in distant and local communities, in contexts where languages are declining or developing anew, and in life cycle and ordinary contexts of daily life. Students explore their own language and cultural backgrounds and those to which they are drawn. (F)

5320 (ANT 5320) Language and Societies. Cr. 3
Contemporary linguistic anthropologists see language as a form of social action. How this understanding of language in society has evolved: classic works in linguistic anthropology and contemporary studies. Research in language in society. (W)

5360 (SLP 5320) Normal Language Acquisition and Usage. Cr. 3
Language development in children and the associated areas of emotional and motor development; speech stimulation techniques and programs. Material fee as indicated in the Schedule of Classes. (Y)

5570 (PHI 5570) Philosophy of Language. Cr. 4
Prereq: PHI 1850 or PHI 1860 or any philosophy course from the Philosophical Problems group or graduate student in linguistics or consent of instructor. Intensive investigation and discussion of philosophical problems concerning meaning, truth, and the nature of language. (B)

5700 (ENG 5700) Introduction to Linguistic Theory. Cr. 3
Introduction to the scientific study of language and methodologies of linguistic analysis: phonetics and phonology, morphology, syntax, semantics, sociolinguistics, and pragmatics. Introduction to selected disciplinary and interdisciplinary topics: typology and universals, communication systems, psycholinguistics, sociolinguistics, historical linguistics, anthropological linguistics. (T)

5720 (ENG 5720) Topics in Language. Cr. 3 (Max. 12)
Topics such as morphology, semantics, pragmatics, historical linguistics, history of English, pidgins and creoles, language variation, to be announced in Schedule of Classes. (T)
NEAR EASTERN and ASIAN STUDIES

Office: 437 Manoogian; 577-3015
Chairperson: Aleya A. Rouchdy
Website: http://www.langlab.wayne.edu/NearEast/NearEast.html

Professor
Aleya A. Rouchdy

Associate Professor
Muneer Faried, May Seikal

Lecturers
Moulouk Berry, Edith Covensky, Rie Masuda, Yue Ming

Adjunct Faculty
Dallas Kenny

Emeritus Professor
Ivan Starr

Degree Programs

BACHELOR OF ARTS with a Major in Near Eastern studies

*MASTER OF ARTS with a major in Near Eastern languages

This department offers programs and courses of instruction which acquaint students with the languages and civilizations of the modern Middle East as well as the classical traditions of that locale. In addition to reading texts in the original languages, the student may elect courses from a wide range of offerings for which no language other than English is required. A student who wishes to major in the Department should plan a program with the departmental adviser as soon as possible after entering the University. Each program is arranged individually to combine the most varied advantages consistent with the student’s interests and purposes.

ABachelor of Arts Degree

Admission Requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements of one of the following major degree programs. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

Major Requirements

Near Eastern Languages: A major concentration in Near Eastern languages consists of: (a) a concentration in either Arabic or Hebrew; or (b) joint study of both languages.

The major with a concentration in Arabic or Hebrew requires twenty-four credits in language or language-related courses (i.e., linguistics or literature) beyond first year proficiency. In addition, the student must take twelve credits in elective courses in ancient Near Eastern, Judaic, or Arab/Islamic culture/civilization, or Islamic and modern Middle East history.

The major with a joint study in both Arabic and Hebrew requires first-year proficiency in both Arabic and Hebrew. Beyond that, the student must take twelve credits in elective courses in either Arabic or Hebrew language or language-related courses and eight credits in such courses in the other language. In addition, the student must take nine credits in elective courses in ancient Near Eastern, Judaic, or Arab/Islamic culture/civilization, or Islamic and modern Middle East history.

Near Eastern Studies: A major concentration in Near Eastern studies consists of eleven credits beyond first year proficiency in Arabic or Hebrew. In addition, the student must take twenty-seven credits in elective courses with no less than six credits in three of the following four subject areas: ancient Near Eastern civilization; Judaic culture/civilization; Arab/Islamic culture/civilization; Islamic and modern Middle East history.

Near Eastern Studies: A major concentration in Near Eastern studies consists of eleven credits beyond first year proficiency in Arabic or Hebrew. In addition, the student must take twenty-seven credits in elective courses with no less than six credits in three of the following four subject areas: ancient Near Eastern civilization; Judaic culture/civilization; Arab/Islamic culture/civilization; Islamic and modern Middle East history.

Minor Requirements

Arabic: A minor in Arabic consists of a minimum of twenty-two credits. These include eleven credits in Arabic language, literature, or language-related courses (for example, linguistics) beyond Arabic 1010 and 1020. They also include at least three units in cognate courses in related areas such as N E 2000, 2030, 2040, or 3550.

Hebrew: A minor in Hebrew consists of a minimum of twenty-two credits. These include eleven credits in Hebrew language or literature courses beyond Hebrew 1010 and 1020. They also include at least three units in cognate courses in related areas such as N E 2010, or 2020.

Near Eastern Studies: A minor in Near Eastern Studies consists of a minimum of twenty-two credits. These include eleven credits in Hebrew language or literature courses beyond Hebrew 1010 and 1020. They also include at least three units in cognate courses in related areas such as N E 2010, or 2020.

Near Eastern Studies: A minor in Near Eastern Studies consists of a minimum of twenty-two credits. These include eleven credits in Hebrew language or literature courses beyond Hebrew 1010 and 1020. They also include at least three units in cognate courses in related areas such as N E 2010, or 2020.

Honors Program

The Honors Program in Near Eastern and Asian Studies is open to students of superior academic ability who are majoring in near eastern and asian studies. To be recommended for an honors degree from this department, a student must maintain a cumulative grade point average of at least 3.3. He/she must accumulate at least fifteen credits in honors-designated course work and must demonstrate the ability to do independent study and an original Honors Thesis during the senior year. For information about the requirements of the department’s honors curriculum, contact the Chairperson of the Department, or the Director of the Honors Program (577-3030).

Kape Memorial Scholarship

This scholarship is open to any full-time undergraduate or graduate student in the Department who has demonstrated a serious and sustained interest in the study of Hebrew, and who has demonstrated financial need. The amount of the award varies depending on funds available; contact the Department for details.

* For specific requirements, see the Wayne State University Graduate Bulletin.
UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

ARABIC COURSES (ARB)

1010 Elementary Arabic I. Cr. 4
Vocabulary, forms, syntax, graded readings. Material fee as indicated in the Schedule of Classes. (F)

1020 Elementary Arabic II. Cr. 4
Prereq: ARB 1010 or consent of instructor. Continuation of ARB 1010. Material fee as indicated in the Schedule of Classes. (W)

2010 (FC) Intermediate Arabic I. Cr. 4
Prereq: ARB 1020 or consent of instructor. Continuation of grammar, readings in classical and modern prose. Material fee as indicated in the Schedule of Classes. (F)

2020 Intermediate Arabic II. Cr. 4
Prereq: ARB 2010 or consent of instructor. Continuation of ARB 2010. (W)

3010 Business Arabic. Cr. 3
Prereq: ARB 1010. Introduces learners of Arabic to language functions associated with business and travel. Communication for immediate use; emphasis on vocabulary. Situational dialogues built around units to address topics related to business such as job interview, airplane ticket purchase, and the like. (W)

3210 Spoken Arabic. Cr. 4
Introduction to authentic spoken Arabic; language of everyday life; phonology and script. Communication for immediate use. (W)

3990 Directed Study. Cr. 3-6 (Max. 9)
Prereq: consent of chairperson or instructor. Readings; consultations and reports. (T)

5010 Medieval Arabic Texts. Cr. 3
Prereq: ARB 2010 or consent of instructor. Reading and translation of Arabic Medieval texts. (Y)

5020 Media Arabic. Cr. 3
Prereq: two years of Arabic study through ARB 2020. Language pertinent to media communications: written, visual and audio material. Background in origin and development of journalism in the Arab world. Current major newspapers and magazines used as basic reading materials. (W)

5100 Teaching of Arabic as a Foreign/Second Language (TAFL). (N E 5100) Cr. 3
Theoretical and conceptual framework of second language learning. Proper training in pedagogy as related to learning Arabic as a foreign/second language. (Y)

5130 Advanced Arabic. Cr. 3
Prereq: ARB 2020 or equiv. Introduction to reading material related to language and literature: short story, poetry. (W)

5140 Readings in Modern Arabic Literature. Cr. 3
Prereq: knowledge of Arabic above ARB 2020. Advanced readings in modern Standard Arabic. (Y)

5210 Arabic Sociolinguistics. (LIN 5210) (N E 5210) Cr. 3
No knowledge of Arabic required. Arabic dialectology; Arabic as a minority language in contact. Theories and techniques developed outside Arabic, and their applicability to Arabic situations. (F)

5230 Structure of Arabic. (LIN 5230) (N E 5230) Cr. 3
No knowledge of Arabic required. Survey of historical constitution and theoretical structure of Arabic. (Y)

5990 Directed Study. Cr. 3-6 (Max. 9)
Prereq: Undergrad., consent of chairperson; grad., consent of chairperson or instructor. Readings; periodic consultations and reports. (T)

ASIAN COURSES (ASN)

3540 Intensive Japanese. Cr. 4-6 (Max. 12)
Prereq: acceptance in Japanese Center for Michigan Universities Program. Open only to JCMU Program participants. Introduction to the linguistic patterns, sound system, and writing system of the Japanese language. (F, W)

CHINESE COURSES (CHI)

1010 Elementary Chinese I. Cr. 4
Introduction to the written and spoken forms of Chinese. (Y)

1020 Elementary Chinese. Cr. 4
Prereq: CHI 1010. Continuation of CHI 1010. (Y)

1030 Basic Chinese for Business Travel. Cr. 4
Does not satisfy any University language requirement. Conversational Chinese, Chinese culture and customs, everyday Chinese street signs and symbols essential to travel and business in China. (T)

2010 (FC) Intermediate Chinese. Cr. 4
Prereq: CHI 1020 or consent of instructor. Completion of Chinese language sequence; insights into Chinese culture. (Y)

2020 Intermediate Chinese II. Cr. 4
Prereq: CHI 2010 or consent of instructor. Continuation of CHI 2010. (W)

HEBREW COURSES (HEB)

1010 Elementary Hebrew I. Cr. 4
Grammar, vocabulary, graded readings, discussions. Material fee as indicated in the Schedule of Classes. (F)

1020 Elementary Hebrew II. Cr. 4
Prereq: HEB 1010 or consent of instructor. Continuation of HEB 1010. Material fee as indicated in the Schedule of Classes. (W)

2010 (FC) Intermediate Hebrew I. Cr. 4
Prereq: HEB 1020 or consent of instructor. Review of grammar, readings in modern Hebrew texts. Material fee as indicated in the Schedule of Classes. (F)

2020 Intermediate Hebrew II. Cr. 4
Prereq: HEB 2010 or consent of instructor. Continuation of HEB 2010. (W)

3050 Survey of Modern Hebrew Literature in English. (N E 3050) Cr. 3
From Bialik to Amichai; traditions and Enlightenment, pioneerism, local color literature, urban malice, holocaust. (Y)

3990 Directed Study. Cr. 1-4
Prereq: consent of chairperson. Readings; consultations and reports. (T)
JAPANESE COURSES (JPN)

1010 Elementary Japanese I. Cr. 4
Introduction to written and spoken Japanese. (F)

1020 Elementary Japanese II. Cr. 4
Prereq: JPN 1010, placement or consent of instructor. Continuation of ASN 1010. (W)

2010 (FC) Intermediate Japanese I. Cr. 4
Prereq: JPN 1020, placement or consent of instructor. Continuation of ASN 1020. Focus on language and Japanese culture. (F)

2020 Intermediate Japanese II. Cr. 4
Prereq: JPN 2010 or equivalent proficiency. Continuation of JPN 2010. Language and culture learned through situational activities with tasks to develop language proficiency. Enhancement of Kanji (ideograph writing system) learning to help students develop higher reading proficiency. (Y)

3010 Advanced Japanese I. Cr. 4
Prereq: JPN 2020 or equiv. Introduction to high intermediate grammar. Three thematic units: body and health; life and careers; communication and media. Emphasis on communication for business. (Y)

3020 Advanced Japanese II. Cr. 4
Prereq: JPN 3010 or equiv. Introduction to language pertinent to media communication, using written, visual, and/or audio materials. (Y)

3030 Japanese Reading and Writing. Cr. 4

4010 Business Japanese I. Cr. 4
Prereq: JPN 1010, 1020, 2010, 2020, 3010, 3020, or proficiency examination. Expansion of vocabulary and grammar knowledge especially used for business settings. Acquisition of business language and etiquette, role-playing of conversation patterns, reading business memos and documents. Classes are all task-oriented for business. (Basic.) (Y)

4550 (FC) Japanese Culture and Society I. Cr. 4
Prereq: acceptance in Japanese Center for Michigan Universities Program. Open only to JCMU Program participants. Examination of significant social institutions and cultural aspects of modern Japanese society, including their historical development. (F)

4560 (FC) Japanese Culture and Society II. Cr. 4
Prereq: acceptance in Japanese Center for Michigan Universities Program. Open only to JCMU Program participants. Significant social institutions and cultural aspects of modern Japanese society, including their historical development. (W)

4850 Studies in Japanese Culture. Cr. 4 (Max. 8)
Prereq: acceptance in Japanese Center for Michigan Universities Program. Open only to JCMU Program participants. Selected topics, themes, subjects on modern Japanese society; to be announced in Schedule of Classes. (F,W)

NEAR EASTERN STUDIES COURSES (N E)

1900 Comparative Religion. Cr. 3
Origins of religion; its social importance, its structure (fetish, totemism, myth, ritual). Pre-historic religion and the major religious traditions. (Y)

2000 (FC) Introduction to Islamic Civilization of the Near East. Cr. 3
The origin of Islam; growth of Islamic institutions. (Y)

2010 The Bible and Ancient Mythology. Cr. 3
The Bible and Biblical religion in the context of its antecedents in the ancient world. (Y)

2020 Survey of Jewish History and Civilization. (HIS 2320) Cr. 3
History of the Jewish people from their origins to the contemporary period. Development of the Jewish community and the Jewish religion in relation to the hegemonic cultures of those regions in which there was major Jewish settlement. (I)

2030 (HS) The Age of Islamic Empires: 600-1600. (HIS 1800) Cr. 3
Historical evolution of the Islamic world from birth of Islam to height of Ottoman Empire. Islamic history and civilization in a world-historical context; developments indigenous to specific regions, such as Islamic Spain. (Y)

2040 (HS) The Modern Middle East. (HIS 1810) Cr. 3
Survey of Middle East history in modern era, focusing on the nineteenth and twentieth centuries. Ottoman history from 1600: impact of European imperialism and nationalist movements, resulting in development of modern state systems, regional/national conflicts, Islamic response to modernization. (Y)

2050 East Meets West: Intercultural Skills for Engineers. Cr. 3
Open only to students in College of Engineering. Task-based intercultural communication course to facilitate global team project work for undergraduate engineering students. Primary focus on Near Eastern and Asian cultures: Islamic, Hindu, Chinese, Japanese; geography, language, culture. (Y)

2110 (HIS 1710) History of Modern East Asia. Cr. 3
From beginning of nineteenth century to the present; emphasis on political, social, economic developments in China, Japan and Korea. (I)

2700 Topics in Middle Eastern Studies. Cr. 1-8 (Max. 8)
Specialized topics related to the Middle East: language, literature, etc. (Y)

3040 Twentieth Century Middle East. (HIS 3320) Cr. 3
The contemporary Middle East; emphasis on social and economic development. Investigation of issues that identify the region, such as oil, gender issues, fundamentalism, and regional conflicts. (Y)

3050 (HEB 3050) Survey of Modern Hebrew Literature in English. Cr. 3
From Bialik to Amichai; traditions and Enlightenment, pioneerism, local color literature, urban malice, holocaust. (Y)

3060 Ancient Near East Literature. Cr. 3
Concentration on wisdom literature and the wisdom teacher. (F)

3120 Biblical Narratives in English Translation. Cr. 3
Class taught in English; texts are available in both Hebrew and English. Emergence of Israel’s United Monarchy starting with King Saul. Emphasis on text interpretations (in English) from historical and literary perspectives. (F)
3225 Modern Israeli Culture: A Pluralistic Perspective. Cr. 3
Israei society and culture in the 20th century: education, archaeology and science; sacred texts, modern literature, visual arts, theatre, music and dance; Israeli cinema, radio and television. (W)

3320 Muhammad: Life of the Prophet. Cr. 3
Introduction to the historical Muhammad in context of religious, political, social and economic life of seventh century Arabia. Aspects of his career, from religious to secular, including his relationship with other religious communities. (B)

3520 Women and Gender in Middle East History. (W S 3520) Cr. 3
Women’s role in Middle East history; impact of religion, culture, social and economic change on construction of gender in the Middle East. (Y)

3550 (ANT 3550) (FC) Arab Society in Transition. Cr. 3
Distinctive social and cultural institutions and processes of change in the Arab Middle East. Regional variations; background and discussion of current political and economic systems and their relations to international systems. (I)

3990 Directed Study. Cr. 3-6 (Max. 9)
Prereq: consent of chairperson. Readings; consultations and reports. (T)

4750 Colonization and Decolonization in North Africa: The Example of Algeria. (AFS 4750) Cr. 3
European (French) colonization in North Africa with emphasis on Algeria. Theoretical principles of nineteenth century colonization; emergence of national liberation movements. Socio-economic impact of colonization on Algeria through the 1990s. (Y)

5030 Great Cities of the Near East. Cr. 3
Illustrated study of the urban centers of the Near East: Mecca, Baghdad, Cairo, Jerusalem and others. (Y)

5100 (ARB 5100) Teaching of Arabic as a Foreign/Second Language (TAFL). Cr. 3
Theoretical and conceptual framework of second language learning. Proper training in pedagogy as related to learning Arabic as a foreign/second language. (Y)

5210 (ARB 5210) Arabic Sociolinguistics. (LIN 5210) Cr. 3
No knowledge of Arabic required. Arabic dialectology; Arabic as a minority language in contact. Theories and techniques developed outside Arabic, and their applicability to Arabic situations. (F)

5220 Muslim Personal Law. Cr. 3
Study of Muslim family law, with attention to the status of women and children in the law. Possibilities of transforming these laws. (F)

5230 (ARB 5230) Structure of Arabic. (LIN 5230) Cr. 3
No knowledge of Arabic required. Survey of historical constitution and theoretical structure of Arabic. (Y)

5240 (HEB 5240) Survey of Modern Hebrew Literature in English. Cr. 3
From nineteenth century to present; authors include: Bialik, Tchernichovsky, Schlonsky, Alterman, Zach, Amichai, Appelfeld, Agnon, S. Yizhar, A.B. Joshua, Anton Shammas. (Y)

5700 Topics in Middle Eastern Studies. Cr. 1-4 (Max. 8)
Specialized and topical studies in Middle East events, language, and literature. (Y)

5710 Islam and the Challenge of Modernity. Cr. 3
Influence of Enlightenment values and colonial institutions on the social, political, and ideological structures of the Islamic World. (B)

5750 (ENG 5750) Theories of Second Language Acquisition. (CLA 5750) (FRE 5750) (GER 5750) (ITA 5750) (LIN 5750) (CL 750) Cr. 3
Investigation of theories in second language acquisition. Review of research in development of second language competence: acquisition of phonology, lexicon, semantics, syntax, discourse, and pragmatics. (B)

5751 (HIS 5805) History of Modern Japan. (HIS 7805) Cr. 4
Modern Japanese history from Late Tokugawa period to the present. (Y)

5752 (HIS 5808) Women in Japanese History. (HIS 7808) Cr. 4
Introduction to women in Japan from ancient times to the present. (B)

5810 (FRE 5810) Teaching Foreign Languages: Receptive Skills. (CLA 5810) (CLA 7810) (FRE 7810) (GER 5810) (GER 7810) Cr. 3
Prereq: N E 5850 or consent of instructor. Latest research on acquisition of reading and listening skills in a foreign language. Difference between receptive and productive language use; how methods of foreign language teaching treat the instruction of the receptive skills. (B)

5820 (FRE 5820) Teaching Foreign Languages: Productive Skills. (CLA 5820) (CLA 7820) (FRE 7820) (GER 5820) (GER 7820) Cr. 3
Prereq: N E 5850 or consent of instructor. Current research on acquisition of speaking and writing skills in a foreign language. Difference between productive and receptive language use; how various methods of foreign language teaching treat the instruction of productive skills. (B)

5830 (GER 5830) Technology in the Foreign Language Classroom. (CLA 5830) (CLA 7830) (FRE 5830) (FRE 7830) (GER 7830) Cr. 3
Prereq: N E 5850 or consent of instructor. Types of current technology; review of research on effectiveness of language classroom technologies; evaluation of technologies; development of activities for use in classroom. (B)

5850 (GER 5850) Second Language Instruction: Theory and Methods. (CLA 5850) (CLA 7850) (FRE 5850) (FRE 7850) (GER 7850) Cr. 3
Theoretical basis of second language teaching models; historical overview of methodologies; current trends in teaching of reading, writing, listening, speaking, and culture. Implications of methodology on materials, classroom techniques, and testing. (B)

5860 (GER 5860) Foreign Language Testing. (CLA 5860) (CLA 7860) (FRE 5860) (FRE 7860) (GER 7860) Cr. 3
Prereq: N E 5750 or consent of instructor. Means of assessing students’ knowledge of a foreign language. Topics include: ACTFL Oral Proficiency Interview; testing of reading, writing speaking and listening skills; means of testing grammar and culture; testing as it relates to program goals. (Y)

5990 Directed Study. Cr. 1-6 (Max. 16)
Prereq: undergrad., consent of chairperson; grad., consent of chairperson and graduate officer. (T)

5993 (WI) Writing Intensive Course in Near Eastern and Asian Studies. Cr. 0
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: any 3000-level or higher course in the department. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a designated corequisite; see section listing in
Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement.

6030 Poetry of Yehuda Amichai in English Translation. Cr. 3
Reading and analysis of characteristics, themes and forms in the poetry of Yehuda Amichai from 1956 to the present. Class is taught in English.

6120 Arab Women Through Literature. Cr. 3
Prereq: N E 2040 or 3040 or consent of instructor. Arabic literature by women, expressing gender vision of society, history, and women’s role in Arab world and North Africa.

PHILOSOPHY
Office: 51 West Warren; 577-4583; 577-2474
Web: http://www.langlab.wayne.edu/Philosophy/Philosophy.html
Chairperson: Bruce Russell

Professors
Richard B. Angell (Emeritus), Herbert Granger, Lawrence B. Lombard, T. Michael McKinsey, Bruce Russell, Robert J. Yanal

Associate Professors
Lawrence Powers, William D. Stine, Robert J. Titiev, Susan Vineberg

Assistant Professor
John Corvino

Lecturer
Sean Stidd

Degree Programs
BACHELOR OF ARTS with a major in philosophy
*MASTER OF ARTS with a major in philosophy
*DOCTOR OF PHILOSOPHY with a major in philosophy

Courses in this department are designed for four types of service:
1. They contribute to the liberal education of any student, whatever his/her predominant interest, by their emphasis on clear and cogent thought, by consideration of the interrelations of fact and value, by training in logic and the methodology of inquiry, and by a study and analysis of major philosophical outlooks.
2. They supply a minor and cognate courses to students majoring in other departments who wish to study their major subject in its wider philosophical implications.
3. They give departmental majors a wide and intensive training in philosophy. The major appeals to those who wish to take graduate work in philosophy and to those who wish a broad background from which to study and understand the emergence and conflict of ideas in relation to contemporary problems.
4. They supply a relevant major and minor for students who plan a career in such fields as the law or the ministry.

Bachelor of Arts
With a Major in Philosophy

Admission Requirements for the College of Liberal Arts are satisfied by the general requirements for undergraduate admission to the University; see page 15. Students who are planning to major in philosophy or who simply wish advice or consultation concerning course offerings and programs should see the Director of Undergraduate Studies in Philosophy. The Department offers a regular major and an honors major.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

* For specific requirements, see the Wayne State University Graduate Bulletin.
Major Requirements: A candidate for the regular major must complete a minimum of nine courses in philosophy, including the following courses or selections from course groups (found in the Courses of Instruction section below).

1. PHI 2100 (or 5400 or 5410 or 5420) and PHI 2110 (or 5440 or 5450 or 5460) from the History of Philosophy group;
2. one course from the Theory of Value group;
3. one course from the Philosophical Problems group
4. Symbolic Logic (PHI 1850 or 1860 or 5050);
5. three courses at the 5000-level or above (other than PHI 5993); and
6. PHI 5993 (Writing Intensive Course in Philosophy).

NOTE: Rather than taking a 2000- or 3000-level course in satisfying requirements (2) or (3), one may take a 5000-level course from the same group instead; however, the student should consult the instructor before doing so. Courses taken at the 5000-level which are used to satisfy any of requirements (1) through (4) may also be used to satisfy requirement (5), though the nine-course minimum must be met.

Honors Program

Admission to the honors program in philosophy is determined on the basis of the student’s overall record. The student will normally be required to have (a) a minimum grade point average of 3.3, (b) credit in at least three philosophy courses, and (c) a ‘B’ or better average in philosophy courses. To remain in the philosophy honors program, the student must maintain a ‘B’ or better average in philosophy courses.

Honors Requirements: To receive an Honors Degree, the candidate must

a) complete the course requirements for the regular major, plus PHI 4870 and 4890 (to be taken during the candidate’s senior year),

b) pass comprehensive examinations in philosophy,

c) write an Honors Essay of sufficiently high quality on a topic to be chosen by the candidate in consultation with his/her instructor in PHI 4870,

d) complete a 4000-level seminar offered through the College Honors Program, and

e) accumulate at least fifteen credits in honors-designated course work, including PHI 4870 and 4890 and the 4000-level Honors Program Seminar.

At graduation, the overall grade point average must be at least 3.3. If at any point the student fails to maintain Honors standards, his or her credits will automatically be counted towards the regular major. Students interested in becoming candidates for the Honors Degree in philosophy should consult the Director of Undergraduate Studies in Philosophy as soon as possible.

Minor in Philosophy

A candidate for a minor in philosophy must complete a minimum of five courses (generally eighteen credits) selected from the philosophy course listings below, including the following courses or selections from course groups (found in the Courses of Instruction section beginning on page 287).

1. History of Philosophy group: PHI 2100 (or 5400 or 5410 or 5420) or PHI 2110 (or 5440 or 5450 or 5460).
2. Symbolic Logic group: PHI 1850 or 1860 or 5050.
3. Value Theory group or Philosophical Problems group: one course from either group.
4. One course at the 5000 level or above from any group.
5. One additional course at the 2000 level or above from any group.

Courses taken in compliance with requirement (4) may be used to satisfy any of requirements (1), (2), (3), or (5); however, students wishing to do so must consult with the instructor; the five course minimum must still be met.

Students who are planning to minor in philosophy should consult the Director of Undergraduate Studies in the Philosophy Department.

PHILOSOPHY COURSES (PHI)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

Introductory Courses

1010 (PL) Introduction to Philosophical Systems. Cr. 3-4 (LCT: 3; OR LCT: 3;DSC: 1)

No credit after PHI 1030. Introduction to philosophy and the main schools of philosophical thought, through examination of some of the great philosophers of the past. Selected texts of writers such as Plato, Augustine, Aquinas, Descartes, Hume, Kant, Hegel, Nietzsche, James, and Russell will be discussed. (T)

1020 (PL) Honors Introduction to Philosophical Systems. Cr. 3-4

Open only to Honors students. See PHI 1010. (I)

1030 (PL) Introduction to Philosophical Problems. Cr. 3-4

No credit after PHI 1010. Survey and discussion of some of the enduring and most pressing issues that have occupied philosophers: Does God exist? What is a good person? Do we have free will? Is the mind the same as the brain? What is the universe really like? What do we really know? Course will acquaint students with techniques for discussing such questions and for evaluating proposed answers to them. (T)

1040 (PL) Honors Introduction to Philosophical Problems. Cr. 3-4

Open only to Honors students. See PHI 1030. (I)

1050 (CT) Critical Thinking. Cr. 3

Knowledge and skills relevant to the critical evaluation of claims and arguments. Topics will include: the formulation and identification of deductively and inductively warranted conclusions from available evidence; the assessment of the strengths of arguments; the assessment of consistency, inconsistency, implications, and equivalence among statements; the identification of fallacious patterns of inference; and the recognition of explanatory relations among statements. (T)

1100 (PL) Contemporary Moral Issues. Cr. 3 (Max. 9)

Critical discussion of contemporary moral issues including pornography, adultery, incest, and homosexuality; abortion; preferential treatment; obligations to the poor; capital punishment; terrorism; ethics in the professions. (Y)

1110 Ethical Issues in Health Care. Cr. 3

Survey of moral issues that arise in the practice of medicine and in pursuit of medical knowledge: abortion, euthanasia, experimentation on human subjects, informed consent, rights to health care, genetic engineering, the concepts of death, health and disease. (Y)

1850 Introductory Symbolic Logic. (LIN 1850) Cr. 3

The logic of propositions; the general logic of predicates and relations. (Y)

College of Liberal Arts 287
History of Philosophy

2100  (PL) Ancient and Medieval Philosophy. Cr. 3
Introduction to the Western philosophical tradition from its origins in Ancient Greece through the medieval period. Unifying themes and important contrasts between the two eras will be stressed. Readings from the pre-Socratics, Plato, Aristotle, Augustine, and Aquinas. (B)

2110  (PL) Seventeenth and Eighteenth Century Philosophy. Cr. 3
A survey of the views concerning knowledge and reality of the major European philosophers of the seventeenth and eighteenth centuries. Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant. (B)

5400  Presocratic Philosophy. Cr. 3
Prereq: any philosophy course at the 2000 level or above; or Classics major; or consent of instructor. Selected readings on topics in philosophers who preceded or were contemporaneous with Socrates (7th - 5th centuries B.C.E), such as Heraclitus, Parmenides, Zeno, Democritus. (B)

5410  Plato. Cr. 4
Prereq: any philosophy course at the 2000 level or above, or classics major, or consent of instructor. Selected readings on topics in Plato. (I)

5420  Aristotle. Cr. 4
Prereq: any philosophy course at the 2000 level or above, or classics major, or consent of instructor. Selected readings on topics in Aristotle. (B)

5440  Continental Rationalism. Cr. 4
Prereq: any philosophy course at the 2000 level or above, or consent of instructor. Topics concerning Descartes, Spinoza or Leibniz. (I)

5450  British Empiricism. Cr. 4
Prereq: any philosophy course at the 2000 level or above, or consent of instructor. Topics concerning Locke, Berkeley or Hume. (I)

5460  Kant. Cr. 4
Prereq: any philosophy course at the 2000 level or above, or consent of instructor. Selected topics or readings in Kant's philosophy. (B)

Theory of Value

2320  (PL) Introduction to Ethics. Cr. 3-4
Only Honors students may register for four credits. An introduction to some classical and modern views concerning such questions as: What determines the rightness and wrongness of actions? What is the nature of moral reasoning? What constitutes a moral life? (T)

2330  Introduction to Social and Political Philosophy. Cr. 3
Introduction to the basic issues of political philosophy, such as the nature of the state, the ways of justifying its power and authority over its citizens; a philosophical analysis of central concepts like those of freedom, justice, and equality. Selected readings from some of the following: Plato, Aristotle, Hobbes, Locke, Rousseau, Mill, Marx, and Rawls. (I)

3270  Foundations of Law. Cr. 3
Prereq: upper division undergraduate status. No credit after PHI 5270. The legal system we live under commands, forbids, punishes, and defines responsibilities and harm. Common-sense morality: what is it, and what is its relation to law? Statutory interpretation: do judges create new law? Punishment: why do we have it, and what rights do the accused have? What is the legal concept of harm and responsibility? (B)

3700  (PL) Philosophy of Art. Cr. 3
What are art works? Why are they so moving? What is the nature of the experience they offer? This course introduces the student to some of the schools of thought on these issues. It also attempts to deal with the specific natures of the various artistic media, such as: drama, literature, film, painting, photography, music and opera. (T)

5240  Special Topics in Social and Political Philosophy. Cr. 4 (Max. 8)
Prereq: any philosophy course at the 2000 level or above or major in political science or consent of instructor. Selected topics and readings from major social and political philosophers. Topics to be announced in Schedule of Classes. (I)

5270  Philosophy of Law. Cr. 4
Prereq: one philosophy course at the 2000 level or above or pre-law or law student standing or consent of instructor. Intensive investigation and discussion of special topics or particular authors in the philosophy of law. (B)

5280  History of Ethics. Cr. 4
Prereq: one philosophy course at the 2000 level or above or consent of instructor. A survey and discussion of historically important moral philosophers from Plato to Mill. (B)

5300  Twentieth Century Analytic Ethics. Cr. 4
Prereq: any philosophy course at the 2000 level or above or consent of instructor. Important twentieth century moral philosophers in the analytic tradition, such as G.E. Moore, W.D. Ross, Hare, Stevenson, Baier and Rawls. (B)

Philosophical Problems

2400  Introduction to the Philosophy of Religion. Cr. 3
Religious beliefs provide subject matter for philosophical study: Are the traditional arguments for the existence of God credible? Does the existence of evil conflict with a belief in God's omnipotence and omnibenevolence? What is the value of religious experience? Discussion of these questions will assist in evaluating a pervasive element within religious experience. (I)

3500  (PL) Theory of Knowledge. Cr. 3
The distinction between knowledge and belief is germane to every field of inquiry. What is the difference between knowledge and belief? Do we know anything at all? If so, how? Are we ever in a position of being certain about beliefs pertaining to an objective world? Is our belief in an objective world based on our subjective experiences? (T)

3550  (PL) Metaphysics. Cr. 3
Survey and examination of some of the enduring questions of metaphysics concerning the nature of reality. Topics include: the nature of physical objects, abstract entities, the concepts of time and change, the relation between mind and body, causation, the nature of metaphysics. (Y)

3600  Space, Time, and the Philosophy of Physics. Cr. 3
Prereq: one course in philosophy or in a physical science or consent of instructor. Survey of some principal problems concerning the concepts of space and time and their relation to physical theories. Topics include: our knowledge of the geometric features of the world, the existence of space and time, time without change, the passage of time, the philosophical foundations and implications of Einstein's Special Theory of Relativity, and the explanation of motion and the General Theory of Relativity. No prior knowledge of modern physics will be presupposed. (B)

5230  Philosophy of Science. (SOC 6800) Cr. 4
Prereq: PHI 1850 or 1860 or any course from the Philosophical Problems group or consent of instructor. Intensive investigation and discussion of special topics or particular authors in the philosophy of
science. Topics and authors to be announced in Schedule of Classes. (Y)

5500  **Topics in Metaphysics. Cr. 4**
Prereq: any course from the Philosophical Problems group or consent of instructor. Intensive investigation and discussion of special topics or particular authors in metaphysics. Topics and authors to be announced in Schedule of Classes. (Y)

5530  **Topics in Epistemology. Cr. 4**
Prereq: any course from the Philosophical Problems group or consent of instructor. Intensive investigation and discussion of special topics or particular authors in the theory of knowledge. Topics and authors to be announced in Schedule of Classes. (I)

5550  **Philosophy of Mind. Cr. 4**
Prereq: any course from the Philosophical Problems group or consent of instructor. Intensive investigation and discussion of special topics or particular authors concerned with the nature and status of the mental and theories about the mental. Topics and authors to be announced in Schedule of Classes. (B)

5570  **Philosophy of Language. (LIN 5570) Cr. 4**
Prereq: PHI 1850 or 1860 or any philosophy course from the Philosophical Problems Group or consent of instructor. Intensive investigation and discussion of philosophical problems concerning meaning, truth, and the nature of language. (B)

5630  **Twentieth Century Analytic Philosophy I. Cr. 4**
Prereq: PHI 1850 or 1860 and any philosophy course from the Philosophical Problems Group or consent of instructor. Major works, movements, and writers in the analytic tradition in the twentieth century up to the 1940s. Frege, Russell, Moore, the early Wittgenstein, Carnap. (I)

5640  **Twentieth Century Analytic Philosophy II. Cr. 4**
Prereq: PHI 1850 or 1860 and any philosophy course from the Philosophical Problems Group or consent of instructor. Major works, movements, and writers in the analytic tradition from the 1940s to the present. Quine, Austin, Ryle, the later Wittgenstein, Sellars, Grice, Davidson, Kripke, Putnam. (I)

**Logic**

5050  **Advanced Symbolic Logic. (LIN 5050) Cr. 4**
Prereq: junior, senior, or graduate standing. Formal, extensive treatment of first-order predicate logic with emphasis on the notions of a formal logical language and truth in a model; the logic of identity; definite descriptions; brief introductions to set theory and the metatheory of propositional and first-order logic; some additional advanced topics to be selected by the instructor. (Y)

5200  **Modal Logic. (LIN 5200) Cr. 4**
Prereq: PHI 1850 or 1860 or consent of instructor. The logic of necessity, possibility, and other modal notions as they occur in epistemic and deontic contexts. Propositional and quantified modal logic. (B)

5350  **Logical Systems I. (MAT 5350) Cr. 4**
Prereq: PHI 1850 or 1860 or 5050 or MAT 5600 or 5420 or consent of instructor; for philosophy graduate students: satisfaction of elementary logic requirement. Metareults concerning formal systems of sentential and first-order logics; soundness, completeness; independence of axioms; introduction to recursive functions; formalization of elementary arithmetic; discussion of Godel’s incompleteness theorem and Church’s Theorem. (I)

**Special Courses**

3800  **Topics in Philosophy. Cr. 3 (Max. 6)**
Topics to be announced in Schedule of Classes. (I)

4870  **Honors Directed Reading. Cr. 4**
Prereq: philosophy honors candidate. Research on topic of honors essay and research for comprehensive examinations. (F)

4890  **Honors Proseminar. Cr. 4**
Prereq: PHI 4870. Continuation of PHI 4870. (W)

5800  **Special Topics in Philosophy. Cr. 3-4 (Max. 9)**
Topics and prerequisites to be announced in Schedule of Classes. (I)

5990  **Directed Reading. Cr. 1-6 (Max. 12)**
Prereq: undergrad., consent of chairperson and instructor; grad., consent of chairperson, graduate officer and instructor. Intensive investigation by student on topic chosen by student in consultation with instructor. (T)

5993  **(WI) Writing Intensive Course in Philosophy. Cr. 0**
Prereq: junior standing; satisfactory completion of English Proficiency Examination; consent of instructor and departmental undergraduate adviser; coreq: any 3000- or 5000-level philosophy course except PHI 5050, 5200, 5350, and 5390. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under direction of faculty member. Must be selected in conjunction with a course designated as a corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. Directed practice in rewriting assignments for the concurrently-elected course, for the purpose of perfecting skills in philosophical writing. (T)
POLITICAL SCIENCE

Chairperson: Richard C. Elling
Website: http://www.cla.wayne.edu/polisci/

Professors
Philip R. Abbott, Timothy Bledsoe, Rondal G. Downing, Charles D. Elder, Peter Eisinger, Richard C. Elling, Otto Feinstein, Susan P. Fino, Michael Goldfield, Charles J. Parrish, Frederic S. Pearson, Lawrence Scaff, Murray B. Seidler (Emeritus), T. Lyke Thompson, Maurice Waters (Emeritus)

Associate Professors
Ronald E. Brown, James T. Chalmers, Ewa Golebiowska, Mary Herring, Brad Roth, Marjorie E. Sarbaugh-Thompson, John M. Strate

Assistant Professors
Jered Carr, Kevin D. Krause

Degree Programs
BACHELOR OF ARTS with a major in political science
BACHELOR OF PUBLIC AFFAIRS
*MASTER OF ARTS with a major in political science
*MASTER OF ARTS / JURIS DOCTOR
*MASTER OF PUBLIC ADMINISTRATION
*DOCTOR OF PHILOSOPHY in Political Science

The study of political science is aimed at understanding the nature and problems of government and the role of politics in contemporary society. This is accomplished through systematic exploration of the structure and processes of government at different levels and across nations, through study of individual and collective political behavior, and through analyses of policy problems and the processes through which public policies are formulated and administered. Political science contributes to the goals of general education by promoting civic literacy and cultivating an awareness of the opportunities and obligations of citizenship at local, state, and national levels. It also provides opportunities for study and training directed toward specific career objectives.

The field of political science is of special importance to students whose career goals include:
1. Professions likely to involve participation in public affairs, including law, engineering, criminal justice, public health, social welfare and education.
2. Administrative or executive positions in government — local, state or federal.
3. Teaching of political and social science at the secondary, junior college and university levels.
4. Positions in the diplomatic service and in foreign and overseas programs of the U.S. Government and of other organizations doing business abroad.
5. Leadership, research, and staff roles in citizen organizations, political parties, campaign organizations, economic and social interest groups, municipal research bureaus, and nonprofit organizations.

* For specific requirements, see the Wayne State University Graduate Bulletin.

Bachelor of Arts
Political science majors are afforded the opportunity to develop programs of study that complement their particular interests and career goals. The major may be used to structure a broad general program or a highly concentrated and specialized one. The following requirements pertain to all B.A. majors.

Degree Requirements: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

Major Requirements: A political science major must satisfactorily complete at least thirty-two credits of course work in the department. This course work must include:
1. One introductory course in American government (P S 1010 or 1030).
2. At least one course from the following: P S 2510, 2710, 2810, 2820.
3. At least four courses at the 3000 level or higher. (P S 5993 does not count toward fulfillment of this requirement.)
4. Course work in at least two of the following fields: American Government/Public Law (courses numbered with a second digit of 0 or 1), Urban Politics (second digit of 2), Public Policy/Public Administration (second digit of 3 or 4), Political Philosophy (second digit of 5), Research Methods (second digit of 6), and World Politics/Comparative Politics (second digit of 7 or 8). P S 1010, 1030, 2510, 2710, 2810, and 2820 do not count toward fulfilling this requirement.
5. A Writing Intensive course in political science with co-registration in P S 5993, in order to satisfy the Writing Intensive Course in the Major requirement. Any political science course at the 3000-level or higher, except P S 5630 and 6640, may be used to fulfill this requirement. To satisfy the requirement, the student must demonstrate proficiency in writing on disciplinary subject matter in a form and style that conform to disciplinary standards. To use a course for this purpose, the student must obtain approval from the instructor and follow the guidelines established by the instructor to demonstrate the required proficiency. The student must also co-register in P S 5993, a zero-credit course for which the student will receive a grade of Satisfactory (‘S’) upon certification by the instructor that the writing requirement has been fulfilled.

Recommended Course: It is recommended that majors include P S 3600, Methods of Political Inquiry, in their programs of study.
— Fields of Study

In developing their specific programs of study, students should consult with the political science undergraduate adviser. They may pursue a general program or choose to concentrate in a particular field or subfield. The following are fields in which a student may choose to concentrate. Other areas of concentration and more specialized programs may be developed in consultation with the undergraduate adviser.

American Government and Politics: Public opinion, electoral politics, and participation in the political process; the role of political parties and interest groups; the workings of Congress, the Presidency, and other governmental institutions. Courses relevant to this area of concentration include (but are not limited to): P S 3101, 3120, 3225, 3030, 3040, 3050, 3060, 3070, 3080, 3430, 5030, 5040, 5050, 6010, 6020, 6050, and 6070.

Public Law/Legal Studies: Judicial interpretation of the Constitution; civil liberties and constitutional rights; law enforcement and the operations of the judicial system; international dimensions of law. Relevant courses include: P S 3100, 5110, 5120, 5850, and 6120.

Urban Politics and Policy: Governing cities in a federal system; economic conditions and urban problems; local policy-making and the constraints under which policy is made. Relevant courses include: P S 2000, 2240, 3250, 6020, 6440, and 6455.

Public Administration: The nature and functions of public agencies; techniques of public management; public bureaucracy in its social setting. Relevant courses include: P S 2310, 2992, 3430, 6120, 6340 and 6700.

Public Policy: How policy is formulated, decided, implemented, and evaluated; moral and political standards for making policy. Relevant courses include: P S 2410, 2420, 2460, 2992, 3430, 3450, 3840, 4460, 5850, 6430, 6440, and 6455.

Political Philosophy and Ethics: The justification and application of ethical standards to politics; history and analysis of authority and rebellion, individualism and community, justice and equality; modern ideologies such as communism, socialism, liberalism, and conservatism. Relevant courses include: P S 2420, 2510, 3510, 3515, 3520, 3530, 5560, and 5850.

Quantitative Political Analysis: Methods of analysis used to assess alternatives and evaluate the impact of government policy; methods of empirical political research including data collection, statistical description and inference, and the use of computers to organize and interpret data. Relevant courses include: P S 2420, 2510, 3510, 3515, 3520, 3530, 5560, and 5850.

Comparative Politics: The study of government and politics of western, non-western, and third world countries in their historical, cultural, and economic settings; problems of comparison across cultural and national boundaries. Relevant courses include: P S 2460, 3600, 4460, 5630, and 6640.

World Politics: Conflict and cooperation among nations; causes of war and the pursuit of peace; international organizations and multinational corporations; North-South relations and issues of development, imperialism, and dependency; East-West relations and the changing world order; American foreign policy and issues of disarmament, intervention, and economic competition. Relevant courses include: P S 2810, 2820, 3811, 3830, 3840, 4810, 5740, 5820, 5830, and 5850.

— Pre-Law Curriculum

Political science provides a useful major for students who anticipate applying to law school. For students choosing the Bachelor of Arts program, a Public Law/Legal Studies concentration drawing upon courses such as P S 3100, 5110, 5120, 5850, 5890, and 6120 is recommended along with courses in American Government and public policy (numbered with second digits of 0 and 4, respectively). Specific programs of study under either degree option should be developed in consultation with the department’s pre-law adviser.

Bachelor of Public Affairs

The Bachelor of Public Affairs (B.P.A.) degree program prepares qualified students for professional and technical careers in the public service or for advanced study in public affairs and administration, the social sciences and related disciplines.

The program is a structured professional curriculum that builds on the foundation of a general liberal arts education. The curriculum incorporates the fundamentals of social science theory and applications of that theory to public management and policy analysis. The B.P.A. provides students with skills needed for working in city, county, state and national government, in other public and non-profit agencies, and in positions in private enterprise that deal with governmental relations. Internships afford students an opportunity to apply what they have learned in public service settings. Students interested in this program should consult the political science undergraduate adviser as early as possible in their college careers. Ideally, students begin B.P.A. course work in their sophomore year and should declare their major as early as possible.

Admission Requirements for the College are satisfied by general undergraduate admission to the University; see page 15. To declare the B.P.A. as a major, a student must have a grade point average of 2.25 and follow the procedures set forth by the College of Liberal Arts for declaring a major (see page 224).

Transfer Credits: Students wishing to apply transfer credits toward the B.P.A. major should consult the political science undergraduate adviser regarding departmental policies and restrictions on the use of these credits.

DEGREE REQUIREMENTS: Candidates for the B.P.A. degree must:
1) Complete a total of 120 credits in course work.
2) Satisfy all of the Liberal Arts Group Requirements (see page 223), excepting that the College’s foreign language requirement need not be satisfied.
3) Satisfy the University General Education Requirements (see page 23),
4) Satisfy the major requirements listed below.

All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

Major Requirements: A Bachelor of Public Affairs major must complete a minimum of thirty-seven credits, divided between a set of prescribed core courses and work in a concentration area.

A Writing Intensive course in political science with a co-registration in P S 5993 is also required, in order to satisfy the Writing Intensive Course in the Major requirement. Any political science elective or concentration course at the 3000-level or higher, except P S 5630 and 6640, may be used to fulfill this requirement. To satisfy the requirement, the student must demonstrate proficiency in writing on disciplinary subject matter in a form and style that conform to disciplinary standards. To use a course for this purpose, the student must obtain approval from the instructor and follow the guidelines established by the instructor to demonstrate the required proficiency. The student must also co-register in P S 5993, a zero-credit course for which the student will receive a grade of Satisfactory (‘S’) upon certification by the instructor that the writing requirement has been fulfilled.

B.P.A. Core Curriculum: Candidates for the B.P.A. degree must satisfy the following core course requirements:

College of Liberal Arts 291
Public Affairs concentration. Such a concentration must consist of ten to thirteen credits and at least three courses selected from: P S 2000 or 2240; 2310, 3060, 3070, 3100, 4710, 5110, 6020. 

Governmental Relations, Lobbying, and Electoral Politics — Ten to thirteen credits and at least three courses selected from: P S 3010, 3020, 3025, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 4040, 4050, 4050, 5010, 6010, 6050, 6070.

Public Management — Ten to thirteen credits and at least three courses selected from: P S 2310, 3430, 3580, 3590, 6020, 6120, 6340, 6700. 

Public Policy and Analysis — Ten to thirteen credits and at least three courses selected from: P S 2310, 3060, 3070, 3430, 3450, 3840, 4810, 6020, 6430, 6440, 6455. 

Urban Policy and Management — Ten to thirteen credits and at least three courses selected from: P S 2000 or 2240; 2310, 3060, 3070, 3250, 3430, 3530, 6020, 6440, 6455. 

Other Concentrations: With approval of the undergraduate adviser, an area of concentration may be specifically designed consisting of political science courses related to a student’s particular career objectives. Such a concentration must consist of ten to thirteen credits and a minimum of three separate courses. A proposal for such a concentration must be submitted in writing to, and be approved by, the undergraduate adviser of the Department.

Internship Option: Although an internship is not required to earn the B.P.A., it is strongly encouraged, and variable credit for a structured internship may be earned through P S 2992. Students should consult with the undergraduate adviser of the Department regarding internship requirements and placement opportunities.

Honors Programs
Bachelor of Arts and Bachelor of Public Affairs majors with strong academic records are encouraged to pursue departmental honors. To be eligible to enter the honors program, a major must have a cumulative grade point average of 3.3. To graduate with honors, students must:

1. Maintain a 3.3 grade point average.
2. Under the direction of one or more members of the department, complete a senior honors paper (P S 4995).
3. Complete all requirements for the Bachelor of Arts or Bachelor of Public Affairs degree.
4. Complete one 4000-level Honors seminar offered through the Liberal Arts Honors Program (consult the Liberal Arts section of the University Schedule of Classes under ‘Honors Program’).
5. Accumulate at least twelve credits in honors-designated course work, including P S 4995, and the Honors Program seminar. These honors credits can be obtained from any department within the College, including Political Science. For information on additional honors-designated course work, consult the undergraduate adviser or the Director of the Honors Program (577-3030).

Students interested in participating in the program should contact the department’s undergraduate adviser no later than the second semester of their junior year.

‘AGRADE’ — Accelerated Graduate Enrollment
Bachelor of Arts and Bachelor of Public Affairs majors with superior academic records (top twentieth percentile overall, with at least a 3.6 g.p.a. in the major) are eligible in their senior year to participate in accelerated graduate enrollment (‘AGRADE’) programs leading to either a Master of Arts degree with a major in political science or a Master of Public Administration degree. The ’AGRADE’ programs enable students to pursue graduate and undergraduate degrees simultaneously and to apply twelve to fifteen credits of approved course work to both degrees. To participate, students must apply and be accepted into the ‘AGRADE’ program by the Departmental Graduate Committee and secure the approval of the Graduate Officer of the College of Liberal Arts in accordance with rules and procedures established by the College (see page 226); this must be done in the junior year. Students should contact the Department’s undergraduate adviser for further details.

Minors in Political Science
Students majoring in other subjects may obtain a minor in political science by completing a minimum of twenty credits in course work. Information on combinations of courses which emphasize particular subfields of political science (public administration, urban politics, public policy, international affairs, etc.) is presented in the listing of Bachelor of Arts concentrations (see above). For information on courses of relevance to such majors as economics, journalism, history, sociology, psychology, philosophy, criminal justice, or urban planning, students should consult the department’s undergraduate adviser. A suitable sequence for pre-law students can be provided by the undergraduate adviser.

Internships
Internships in government, political campaigns, political advocacy groups, civic organizations, or public agencies provide valuable work-educational experience that enables students to relate knowledge acquired in the classroom to the world-at-large. They also provide practical training that enhances future job prospects. Academic credit may be earned for an internship through enrollment in P S 2992, Political Science Internship, a course that helps to assure the educational relevance of the internship by requiring interns to prepare papers and reports based on their experiences. Interested students should consult the department’s undergraduate adviser.

Exchange Program with The University of Windsor
Through an exchange program with the University of Windsor in Windsor, Ontario, students may take political science classes at the University of Windsor for credit toward their degrees; enrollment for this political science credit is made at Wayne State University. The arrangement between the universities serves to enhance the range of course offerings available to students, as well as providing oppor-
POLITICAL SCIENCE COURSES (P S)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

1000  (SS) Introduction to Political Science. Cr. 3
Introduction to the scope and method of political science. Overview of politics, political systems, nature and role of political institutions. Empirical political theory; practice in conducting political research. (Y)

1010  (AI) American Government. Cr. 4
No credit after P S 1030. Politics and functions of American governmental institutions. Policy processes and the role of citizens in the political process. (T)

1030  (AI) The American Governmental System. Cr. 3
No credit after P S 1010. Structure and functions of the American political system. Governmental institutions and processes. (T)

Urban phenomena, past and present: quality and nature of urban life; major concerns of urban areas; perspectives and techniques of various urban-related disciplines. (Y)

2240  (SS) Introduction to Urban Politics and Policy. Cr. 4
Influences on politics and problems of cities, forms of local political involvement, role of local public officials, impact of state and federal policies. Overview of current issues and problems in specific policy areas. (Y)

2310  Introduction to Public Administration. Cr. 4
Prereq: P S 1010 or 1030. Governmental and administrative structures and organizations. Concepts and techniques of public management. Impact of public bureaucracies on modern society. (T)

2410  Introduction to Public Policy. Cr. 4
Prereq: P S 1010 or 1030. Public policy-making institutions and processes. Emphasis on theory and practice of policy formation, implementation and evaluation. Various models of political decision making. (T)

2420  Ethics and Politics of Public Policy. Cr. 4
Moral and political standards for policy-making, relation of major political and social theorists to policy issues such as economic inequality, racial and sexual discrimination, the enforcement of morals, and violence and social change. (Y)

2440  (PHY 2020) Science, Technology, and War. (HIS 2510) (PCS 2020) Cr. 4
Prereq: P S 1010 or 1030. Modern weapons, nuclear and otherwise, becoming increasingly available and dangerous; people with grievances eager to use them. Science and technology behind weapons development and use; impact of technologies on prospects and results of war and peace. Constraints of career, bureaucracy and society on development, deployment and use of weapons. History of humanity and its tools of war. (Y)

2460  Policy and Rationality: Dilemmas of Choice. Cr. 4
Individual decision-making and limitations on human cognition; collective choice; implications for policy development. (Y)

2510  Introduction to Political Ideologies. Cr. 4
Comparison of ideologies, political institutions, and economic systems. Democracy and authoritarianism, capitalism, socialism and communism contrasted. (Y)

2550  (PCS 2050) The Study of Non-Violence. (HIS 2530) (SOC 2050) Cr. 3
Intellectual and social roots of non-violence and the practice of non-violence in different people’s life styles. (Y)

2700  Introduction to Canadian Studies. (ENG 2670) (GPH 2700) (HIS 2700) Cr. 3
Survey of Canada in its cultural, literary, historical, geographical and political aspects; key concepts and social patterns that define the Canadian experience. (Y)

2710  Introduction to Comparative Politics. Cr. 4
Comparison of the political cultures, politics, and political institutions of Eastern, Western, and Southern European political systems. Similarities and differences in public policies; European influence; parallels in developing nations. (B)

2810  World Politics. Cr. 4
Role of power, methods of resolving international conflict, economic relations between industrialized and Third World countries, multinational corporations, terrorists, and other non-state actors. (Y)

2820  (PCS 2000) Introduction to Peace and Conflict Studies. (HIS 2500) Cr. 3
Required for the peace and conflict studies co-major. A variety of approaches to the origins, processes and resolution or management of conflict in all human systems, from the individual to the nation-state. (Y)

2830  (PCS 2010) Topics in Peace and Conflict Studies. (HIS 2520) Cr. 1-4
Special topics relating to peace and conflict studies. (Y)

2992  Political Science Internship. (U S 2992) Cr. 1-4 (Max. 6)
Prereq: consent of undergraduate adviser. Open only to political science majors or minors, urban studies co-majors, or students with...
twelve credits or more in political science. Offered for S and U grades only. Internship in a public or quasi-public organization, agency, civic or voluntary group, or campaign organization. Collateral reading, written work and arranged conferences with faculty supervisor. (T)

3010 Public Opinion and Political Behavior. Cr. 4
Prereq: P S 1010 or 1030 or consent of instructor. Factors that shape public opinion; patterns of political participation and electoral politics. Impact of public opinion and popular participation on the political system. (Y)

3020 Political Parties and Elections. Cr. 4
Prereq: P S 1010 or 1030. Development, structure, functions and operations of American political parties; their electoral and government roles; comparison with other systems; possible reforms. (B)

3025 Political Campaigns in America. Cr. 4
Nature and dynamics of campaigns for public office in the U.S. Campaign techniques and strategies in an era of candidate-centered American politics. (B)

3030 Political Interest Groups. Cr. 4
Prereq: P S 1010 or 1030. Structure, techniques and internal politics of interest groups, their roles in policy-making and relationship with other groups such as political parties, legislatures and administrative agencies. (B)

3040 The Legislative Process. Cr. 4
Prereq: P S 1010 or 1030. Function, structure, procedures and politics of American legislative bodies with special attention to Congress. Relationships with other political institutions, especially the executive branch, and comparisons with foreign legislative institutions. (Y)

3050 Politics of the American Presidency. Cr. 4
Prereq: P S 1010 or 1030. Constitutional, historical, and political bases of the presidency. Influence of courts, Congress, interest groups, the news media, and personality on the office. (Y)

3060 State Government and Politics. Cr. 4
A comparison of states in the United States in terms of their governmental structures, functions and response to changes in national and local relationships. (Y)

3070 (ULM 3070) Michigan Politics. Cr. 4
History and overview of Michigan politics: structure, process, current issues. (B)

3080 Gender and Politics. Cr. 4
Genesis and perpetuation of gender roles; feminist movements to modify these roles; impact of gender on public policy; gender differentiated impact of public policy. (Y)

3100 American Legal Systems and Processes. Cr. 4
Analysis of the institutional structure, processes and policy-making of the American judicial system, including the recruitment of lawyers and judges, the influence of legal rules on policy-making, and selected areas of judicial policy-making. Emphasis on federal and state appellate courts. (Y)

3120 (CRJ 3120) Politics of the Criminal Justice Process. Cr. 4
Prereq: sophomore standing. Political aspects of criminal justice; politics of crime legislation, police function, prosecution, adjudication, and corrections; Federal role in criminal justice. (Y)

3250 Detroit Politics: Continuity and Change in City and Suburbs. (HIS 3240) (ULM 3250) Cr. 4
Detroit area political systems and processes; historical, economic, and social influences on local politics. Traditions, changes, and future challenges in Detroit and metropolitan area. (B)

3330 Bureaucracy and Public Policy. Cr. 4
Prereq: P S 1010 or 1030. Theory and development of modern governmental bureaucracy. Bureaucratic politics and its significance for decision making and program implementation. Normative aspects of bureaucracy, including accountability to the public and the role of bureaucrats in helping to define rational, efficient policies. (B)

3450 Environmental Policy and Politics. Cr. 4
Introductory course; primary focus on United States. Discussion of major environmental problems and their causes; environmental politics and the policy process. (I)

3510 (PL) Law, Authority and Rebellion. Cr. 4
Analysis of major theories of law, authority, freedom, and political obligation; justifications of disobedience, resistance and revolution. (B)

3515 Political Culture in Modern North America. Cr. 4
American cultural and thought through modern history from 1930 to the present. Variety of interpretations of American political culture including conservative, liberal, Marxist, and post-modernist. (B)

3520 (PL) Justice. Cr. 4
Analysis of major theories of justice; social, economic and political justice. (B)

3530 Great Political Thinkers. Cr. 4
Great political thinkers including Plato, Machiavelli, Wollstonecraft, Marx and Arendt. Focus on themes of class, gender, violence and power. (B)

3600 Methods of Political Inquiry. Cr. 4
Techniques of political science research: data gathering techniques, especially survey design; data processing and analysis using computers; and the interpretation and reporting of statistical results. (Y)

3710 Politics of Western Europe. Cr. 4
Western Europe: driving force in world politics over centuries; lofty principles and gruesome conflict. Origins of European political systems; twentieth-century crises; ongoing process of creating united Europe. (Y)

3715 Politics of Central and Eastern Europe. Cr. 4
Central and eastern Europe: crossroads of many world civilizations and birthplace of the movements that shaped the modern world. Rise and fall (and rise?) of nationalism, communism, and democracy in the region. (Y)

3735 Politics of Latin America. Cr. 4
Political, social, economic and cultural foundations, the structure and function of institutions, and political processes in Latin America. (B)

3811 Theory of World Politics. Cr. 4
Prereq: P S 2810 recommended. Major theoretical approaches. Evaluation of the extent to which theses that devolve from realist, idealist, globalist, culturalist, feminist and decision-making approaches allow the explication of phenomena in world politics. (B)

3820 (AFS 3420) Pan Africanism: Politics of the Black Diaspora. Cr. 4
Interplay of Pan Africanism as a cultural and socio-political movement in world politics from its origins as a concept to organizing practice worldwide. (Y)

3830 War. Cr. 4
Prereq: P S 2810 recommended. Major theoretical and methodological approaches to study of international conflict. Analysis of impact of domestic, state, and global system factors in explicating international war. Aspects of civil wars that have become internationalized. (B)
3840 American Foreign Policy and Administration. Cr. 4
Shaping and administering United States foreign policy; influences of Congress and interest groups on the White House; secrecy; and the foreign service. (B)

3991 Directed Study: WSU-Salford Exchange. Cr. 3-9
Prereq: consent of undergraduate adviser. Open only to students admitted to Salford Exchange Program. Credit earned through approved upper-division course work at the University of Salford, England, as part of the W.S.U.-Salford Exchange Program. (F,W)

3993 (HIS 3993) Topics in Canadian History, Society, Politics, and Culture. (GPH 3993) (ENG 3993) (SOC 3993) Cr. 1-4
Significant topics and issues in the development of Canadian history, society, politics, and culture. (F,W)

4460 Techniques of Policy Analysis. Cr. 4
Introduction to several major techniques used by policy analysts to measure and evaluate the effectiveness, efficiency, and equity of public policies and programs. Approaches and methodologies considered will include systems analysis, benefit-cost analysis, and simulation. Material fee as indicated in the Schedule of Classes. (Y)

4710 Democracy. Cr. 4
"The worst form of government except for all the others?" How democracy has evolved from ancient Athens until today. What makes democracy work. How democratization is proceeding in Latin America, Europe, Africa, Asia. (I)

4799 Topics in Comparative Politics. (P S 6799) Cr. 3-4 (Max. 8)
Prereq: P S 2710. Compelling and emerging issues; thematic topics such as democratization and other changes in political institutions; regional topics such as central Asia and other rapidly changing areas of global concern. Students in P S 6799 will be assigned additional graduate-level assignments. (I)

4810 Foreign Policies of Major Powers. Cr. 4 (Max. 8)
Major issues and trends in the foreign policies of Russia, China, Japan, and the European economic community. (B)

4990 Directed Study. Cr. 1-4
Prereq: consent of chairperson and undergraduate adviser. (T)

4995 Senior Honors Paper. Cr. 4
Prereq: admission to political science honors program. Completion of an extended examination of a topic or research question in political science, under the direction of one or more members of the departmental faculty. (T)

5030 African American Politics. (AFS 5030) Cr. 4
Nature and texture of black politics; various perspectives on politics by blacks; the impact of blacks on American politics. (Y)

5040 Religion and Politics. Cr. 4
Prereq: P S 1010 or 1030. Religion and American political culture; religious institutions and religious movements; church lobbying in national, state, and local governments; specific manifestations of religion and politics; African Americans, women and conservative Christians. (B)

5050 Mass Media and Politics. Cr. 3
Prereq: P S 1010 or 1030. Role of communications media in modern politics. Historical evolution of media; political impact of newspapers, radio and television; polling and the media; political advertising; media law; mass media and the future of American democracy. (Y)

5110 Constitutional Law. Cr. 4
Examination of the power of judicial review, barriers to court review, distribution of powers in the national government, federal-state relations, federal-state power to regulate and tax interstate commerce, and protection of property through the due process clause. (Y)

5120 Constitutional Rights and Liberties. Cr. 4
The Bill of Rights and the Fourteenth Amendment's due process and equal protection clauses, including rights of criminal defendants, freedom of speech and religion, race and sex discrimination. (Y)

5560 Biopolitics. Cr. 4
Use of the perspective of the life sciences in the study of political behavior, political evolution, political institutions, and contemporary political issues. (B)

5630 Statistics and Data Analysis in Political Science I. Cr. 4
Introduction to statistical description and inference in the study of politics, administration and public policy. Introduction to statistical analysis using microcomputers. Material fee as indicated in the Schedule of Classes. (Y)

5740 Ethnicity: The Politics of Conflict and Cooperation. (AFS 5740) (PCS 5500) Cr. 4
Current ethnic (racial, linguistic, religious, and cultural) conflicts regionally, nationally and internationally. Introduction to concepts and analytic perspectives for understanding ethnicity as a factor in nation building and maintenance. (Y)

5820 International Law. Cr. 4
Sources of international law (treaty and custom); institutions of the international system and relationship to domestic law and the courts; state sovereignty; role of United Nations and other international organizations. Application of legal norms to contemporary armed conflicts and human rights catastrophes. (I)

5830 International Conflict and Management. Cr. 4
Types of international conflict and such methods of resolution as negotiation, mediation and other third-party procedures. (B)

5850 Human Rights. Cr. 4
Theoretical traditions that have inspired the human rights movement; critiques from liberal and conservative perspectives; international human rights treaties and efforts to implement their terms; controversies over cultural relativism, economic and social rights, treatment of women, and the question of non-intervention. (Y)

5890 (PCS 5000) Dispute Resolution. (CRJ 5994) (PSY 5710) Cr. 3
Overview of the processes and actors in the field of dispute resolution including negotiation, mediation, arbitration, and conciliation. (Y)

5991 Directed Study: W.S.U.-Salford Exchange. Cr. 3-9
Prereq: consent of undergraduate adviser. Open only to students admitted to WSU-Salford Exchange Program. Credit earned through approved upper-division course work at the University of Salford, England, as part of W.S.U.-Salford student exchange program. (F,W)

5992 Political Science AGRADE Internship. Cr. 4
Prereq: consent of undergraduate adviser and M.P.A. program director. Open only to students admitted to WSU-Salford Exchange Program. Credit earned through approved upper-division course work at the University of Salford, England, as part of W.S.U.-Salford student exchange program. (F,W)

5993 (WI) Writing Intensive Course in Political Science. Cr. 0
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: any P S course numbered 3000 or higher except P S 3600, 4460, 5630 and 6640. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a designated corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. (T)
5999  Special Topics in Political Science. Cr. 1-4 (Max. 16)
Prereq: consent of instructor. Open only to juniors, seniors and graduate students. Topics to be announced in Schedule of Classes. (T)

6010  Political Psychology. (PSY 6020) Cr. 3
Prereq: P S 1010 or equiv. Political attitudes and behavior of both ordinary citizens and political elites using theory and research that adopt a psychological perspective. Topics include: political socialization, ideological belief systems, role of mass media in shaping beliefs and attitudes, race and gender stereotypes and their psychological and political consequences, personality and the dynamics of political leadership. (Y)

6020  Intergovernmental Relations and American Federalism. Cr. 3
Legal, fiscal, political and administrative relationships among governments in the American federal system. Current issues and public policies which affect or are affected by intergovernmental relationships. (B)

6050  (ULM 6100) Class, Race, and Politics in America.
(AF 6100) (HS 5110) (SOC 7330) (UP 7030) Cr. 3
Prereq: senior standing or consent of instructor. Historical and analytic investigation into the role of class and race in American politics. (Y)

6070  Labor and American Politics. (IR 7420) Cr. 3
Role of organized labor in American politics. Historical background, including rise of the UAW and its role in Detroit and Michigan politics. Recent declines; future of organized labor as a force in American politics. (B)

6120  Administrative Law and Regulatory Politics. Cr. 3
For any class designated as Web, contact online: (http://www.class-schedule.wayne.edu). Constitutional and statutory status of bureaucratic agencies; administrative powers and procedures; judicial review of administrative decisions; Congressional oversight of bureaucracies. (B)

6340  (IR 7430) Public Sector Labor Relations. Cr. 3
Prereq: graduate standing. History, present functionings, problems and current controversies surrounding public sector unions. (B)

6430  Social Welfare: Politics and Policy. Cr. 3
National government policy related to old-age assistance, income maintenance, food stamps, health care, and other entitlement programs. (B)

6440  (ULM 6210) Regional, State, and Urban Economic Development: Policy and Administration. (ECO 6650)
(U P 6550) Cr. 3
Prereq: graduate standing. Examination of regional, state, and local economic development theory, analysis, policy and administration. (B)

6455  (UP 6455) Discrimination and Fair Housing. (U S 6455)
(SOC 6455) (AF 6455) (ECO 6455) Cr. 3
Prereq: senior or graduate standing. Multidisciplinary investigation into the nature, motivations, consequences, and legal/public policy implications of racial/ethnic discrimination in housing and related markets in U.S. metropolitan areas. (B)

6640  Statistics and Data Analysis in Political Science II. Cr. 3
Prereq: P S 5630 or equiv. Modern statistical theory applied to the study of politics, administration, and public policy. Multivariate analysis: multiple regression, logistic regression, path analysis, and factor analysis. Material fee as indicated in the Schedule of Classes. (Y)

6700  Financial Management for Nonprofit Organizations. Cr. 3
Accounting for voluntary health and welfare organizations and other not-for-profit organizations. Topics include: key accounting issues, funds, transfers, assets and contributions, depreciation, financial statements, cost savings, and budgeting. (F)

6799  (PS 4799) Topics in Comparative Politics. (PS 6799)
Cr. 3-4 (Max. 8)
Prereq: P S 2710. Compelling and emerging issues; thematic topics such as democratization and other changes in political institutions; regional topics such as central Asia and other rapidly changing areas of global concern. Students in PS 6799 will be assigned additional graduate-level assignments (I)

6899  Topics in World Politics. Cr. 3 (Max. 9)
Prereq: graduate standing. Coverage of compelling and emerging issues, ranging from global public policy to detailed analysis of global organization and international political economy; issues of globalization. (B)
ROMANCE LANGUAGES and LITERATURES

Office: 487 Manoogian Hall; 577-3002
Acting Chairperson: Donald E. Schurknight
Academic Services Officer: Terrie Pickering
Website: http://www.langlab.wayne.edu/Romance/Romance.html

Professors
Vincent C. Almazan (Emeritus), Fernande Bassan (Emerita), Manuela M. Circe (Emerita), Jorgelina Corbatta, Andrea di Tommaso, Jesus Gutierrez (Emeritus), Francisco J. Higuero, Donald E. Schurknight, Donald C. Spinelli, Charles J. Stivale, Richard Vernier (Emeritus), Margaret E. Winters

Associate Professors
Michael J. Giordano, Louise M. Jefferson (Emerita), Louis Kibler, Sol Rossman (Emeritus), A. Monica Wagner (Emerita), Helene Weldt-Basson

Assistant Professors
Sergio Ayala-Rivera, Catherine Barrette, Eugenia Casielles, Anne E. Duggan, Victor Figueroa, Sandra Hobbs, Kate Paesani, Lisa Vollendorf

Lecturers
Raffaele DeBenedictis, Connie Green, Marilyn Rashid, Carole Verhelle

Adjunct Professor
Robert Holley

Director of Foreign Language Laboratories
Dallas Kenny

Degree Programs
BACHELOR OF ARTS with a major in French Studies, Italian, or Spanish

*MASTER OF ARTS with a major in French, Italian, or Spanish

*DOCTOR OF PHILOSOPHY with a major in modern languages

Bachelor of Arts Degrees
Admission Requirements for the Bachelor of Arts programs of this department are satisfied by the general requirements for undergraduate admission to the University; see page 15. Students who wish to major in one of the programs offered by the Department should consult with the undergraduate director as soon as possible.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements of one of the following programs. All course work must be completed in accordance with the academic procedures of the University and the School governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223.

* For specific requirements, see the Wayne State University Graduate Bulletin.

Major Requirements
All majors in Italian and Spanish are required to take a minimum of two cognate courses approved by the adviser. They are encouraged to take as much work as possible in the literatures of other languages, both ancient and modern, as well as in history, philosophy, linguistics, art, and music.

Major Requirements in French Studies: As of Fall Term 2000, there is one French major offered by the Department, with an optional course selection at the 6000 level, for either French literature or French culture.

A French Studies major consists of: French 2100, 2110; either 2710 or 2720; 3200, 3300, 4610, 4620; either 5100 or 5310; 5200; either 5305 or 6400; and a choice of one course in Option A or Option B:

Option A (Culture Studies) — one course from FRE 6450, 6460, or 6470; Option B (Literary Studies) — one course from FRE 6510, 6630, 6650, 6770, 6810, 6840, 6860, 6991.

French majors are required to take at least three cognate courses to be selected in consultation with the undergraduate major adviser.

Major Requirements in Italian: A major in Italian must complete eleven courses including: Italian 3100, 3200, 3600 and 3610; 6610; 6680; two courses in the post-Renaissance period; and two cognate courses.

Major Requirements in Spanish: A student majoring in Spanish is required to take: Spanish 2025, 3100, 3300; 4610 or 4620; 4630 or 4640; 5100, 5200; either 5550 or 5560 or 5570; plus one elective at the 3000 level or above; one literature course at the 6000 level or above; and two electives at the 5000 or 6000 level.

Teacher Preparation Curricula: Students who are preparing to teach French, Italian, or Spanish in the secondary schools and who wish to obtain a B.A. degree with a major in one of these languages must complete the appropriate major as defined above. For Information regarding this curriculum see page 229.

Preparation for Careers in Business: Foreign language majors who do not plan to teach may wish to consider a series of courses in the School of Business Administration which will provide some background for potential employment with multinational corporations. These courses will also prepare them for entrance into the Master of Business Administration degree program after completion of the B.A.

Honors in Romance Languages
The Honors Program in Romance languages is open to students of superior academic ability who are majoring in Romance languages. To be recommended for an honors degree from this department, a student must maintain a cumulative grade point average of at least 3.3. He/she must accumulate at least fifteen credits in honors-designated course work from any of the departments of the College, including at least one 4000-level seminar given by the Honors Program. For seminar topics, see the Schedule of Classes, under ‘Honors Program.’ For information about the specific curricular requirements of the department’s honors program, contact the Chairperson of the Department, or the Director of the Honors Program (577-3030).

Minors and Cognate Study
Minor Requirements in French: A French minor requires the completion of eighteen to twenty credits in French 2010, 2710 or 2720, 2100, 2110, 3300 or 3200, 4610 or 4620, and one 5000- or 6000-level course. A student who places out of French 2010 through the placement examination or advanced placement may opt to take French 2710 or 2720.
Minor Requirements in Italian: An Italian minor requires the completion of eighteen credits in Italian courses including: 2710 or 2720; 3100 or 3200; 3600 or 3610; any 6000 level course; and two additional courses at the 3000 or 6000 level. Substitutions can be made after consultation with the undergraduate director.

Minor Requirements in Spanish: A minor in Spanish requires the completion of 3300 and five other courses for a minimum of eighteen credits. With the guidance of the undergraduate director, courses may be chosen from the following: (language) 2025, 3040, 3050, 3100, 3200, 5100, 5200, 5300, 5400, 6400; (culture) 5550, 5560, 5570; (literature) 4610, 4620, 4630, 4640; and any 6000-level language course.

— Foreign Language Group Requirement

This requirement may be satisfied by passing the first three courses in one language or by proficiency examination; see page 224.

Courses: The student should elect a language as early as possible and continue it without interruption. The courses numbered 1010, 1020, and 2010 are essentially a continuum designed to give the student command of the basic elements of the language. The ‘target’ language is the preferred language of the classroom. There are several hour examinations in each course; group finals are given. The learning of a foreign language requires: (a) regular class attendance; (b) class participation; (c) two hours of concentrated study for each hour in class; (d) laboratory attendance. Frequent short visits to the language laboratory are preferable to occasional long cramming sessions.

Placement: The main guide to placement for students who wish to continue the study of a language begun in high school is the number of years of high school language study. Students with one year of high school study are advised to enroll in 1010 for Italian, and 1020 or 1600 for French and Spanish; those with two years, in 1020, those with three years, in 2010. Those with four years of study may elect 2010 in order to satisfy the foreign language requirement or may choose to write the Proficiency Examination administered by the Department. Students with a sufficiently high proficiency score will be deemed to have satisfied the Foreign Language Group Requirement. For information on the Proficiency Examination, contact the Department at 577-3002. Examinations are scheduled by appointment at the Department Office, 487 Manoogian Hall. (A fee is charged.)

‘AGRADE’ — Accelerated Graduate Enrollment

The Department encourages academically-superior majors to petition for admission into the College’s ‘AGRADE’ program. Qualified seniors may apply a maximum of fifteen credits toward both a bachelor's and a master's degree in French, Italian, or Spanish. Students electing the ‘AGRADE’ Program may expect to complete the bachelor's and master's degrees in five years of full-time study. For more details, contact the graduate director (French, Italian, or Spanish): 577-3002. Students should consult with the director in their junior year regarding this opportunity.

Financial Aid and Awards

Claude and Samuel Astrachan Foreign Study Annual Scholarship Fund: Annual award or awards made to students accepted for study in any approved Summer Study Program, based on academic excellence and need.

Himmel Fund: Provides financial assistance in support of the humanities, to graduate and undergraduate students, primarily in the form of awards, travel, books, and scholarships. Preference is given to students of high academic achievement.

Dr. D.L. Pucci Memorial Award: Annual award made to an advanced student of Italian language, based on academic excellence.

Carosello Italiano Scholarship for Canadian Students: Annual award or awards made to Canadian students in advanced Italian courses, based on academic excellence and need.

UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

— Offered in English

No knowledge of a foreign language is presumed or required for the following courses, which are conducted in English with all readings in English. They will not count toward a major in the foreign language from which the translations are derived.

FRENCH IN ENGLISH TRANSLATION(FRE)

2700 (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature. (ITA 2700) (RUS 2700) (SPA 2700) Cr. 3-4

Only students in Honors Program may register for four credits. A team-taught interdisciplinary study in English of representative works by European existentialist writers: Dostoevsky, Hesse, Kafka, Svevo, Sartre, Camus and Sabato. (B)

2710 (FC) Introduction to French Civilization I. Cr. 3

An overview of France’s great contributions to world culture, from the time of the Gauls to the French Revolution. French history, thought, art, architecture, society, geography, and institutions; illustrated with slides and films; includes visits to Detroit Institute of Arts. (B)

2720 (FC) Introduction to French Civilization II. Cr. 3

From the French Revolution to contemporary times. French way of life, its moral and intellectual foundations, its culture and institutions; their transformation under the stress of the twentieth century. (B)

2990 Topics in Romance Studies: in English Translation. (ITA 2990) (SPA 2990) Cr. 3

Individual themes, critical issues, special problems, or trends in interdisciplinary studies. Course is team-taught. (F,W)

6991 Contemporary French Criticism and Literary Theory. Cr. 3

Theory and practice of contemporary French criticism; structuralist and post-structuralist writers: Barthes, Greimas, Derrida, and Lyotard. French majors required to do readings in French. (I)

ITALIAN IN ENGLISH TRANSLATION (ITA)

2700 (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature. (FRE 2700) (RUS 2700) (SPA 2700) Cr. 3-4

Only students in Honors Program may register for four credits. A team-taught interdisciplinary study in English of representative works by European existentialist writers: Dostoevsky, Hesse, Kafka, Svevo, Sartre, Camus, and Sabato. (B)

2710 (FC) Italian Culture and Civilization I. Cr. 3

Overview of development of Italian culture and civilization from their origins to 1500; emphasis on those aspects that prepared the political, social, cultural and intellectual groundwork of Humanism and the Renaissance. Taught in English. (Y)
2720  (FC) Italian Culture and Civilization II. Cr. 3
Prereq: ITA 2710 recommended. Overview of Italian culture and civilization from 1500 to 1947: the Renaissance, Italian contributions to science, Unification of Italy, the Fascist era, the new republic. Taught in English. (Y)

2990  (FRE 2990) Topics in Romance Studies: in English Translation. (SPA 2990) Cr. 3
Individual themes, critical issues, special problems, or trends in interdisciplinary studies. Course may be team-taught. (F,W)

5150  Italian Cinema since 1942. Cr. 3 (Max. 9)
Concentrated study of specific trends or the development of individual directors. Topics to be announced in Schedule of Classes. Material fee as indicated in the Schedule of Classes. (B)

6500  Introduction to Literary Criticism. Cr. 3
Overview of various currents of critical theory, focusing on literary and historical context. (B)

SPANISH IN ENGLISH TRANSLATION (SPA)

2400  (CBS 2100) Chicano Literature and Culture. Cr. 3
Examination of Chicano literature. Themes and figures in a social and historical context. (B)

2500  (CBS 2110) Puerto Rican Literature and Culture. Cr. 3
Examination of Puerto Rican literature. Themes and figures in a social and historical context. (B)

2700  (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature. (FRE 2700) (ITA 2700) (RUS 2700) Cr. 3-4
Only students in Honors Program may register for four credits. A team-taught interdisciplinary study in English of representative works by European existentialist writers: Dostoevsky, Hesse, Kafka, Svevo, Sartre, Camus and Sabato. (B)

2990  (FRE 2990) Topics in Romance Studies: in English Translation. (ITA 2990) Cr. 3
Individual themes, critical issues, special problems, or trends in interdisciplinary studies. Course may be team-taught. (F,W)

FOREIGN LANGUAGE INSTRUCTION

FRENCH COURSES (FRE)

1010  Elementary French. Cr. 4
Training in pronunciation, aural comprehension, oral and written expression. Laboratory work is part of class preparation. Material fee as indicated in the Schedule of Classes. (T)

1020  Elementary French. Cr. 4
Prereq: FRE 1010 or placement. Continuation of FRE 1010. Material fee as indicated in the Schedule of Classes. (T)

1060  Elementary French I and II. Cr. 6
Prereq: one year of high school French or one semester college French. Training in pronunciation, aural comprehension, oral and written expression, with a review of material normally covered in FRE 1010, followed by in-depth presentation of material covered in FRE 1020. (T)

2010  (FC) Intermediate French. Cr. 4
Prereq: FRE 1020 or placement. Continuation of FRE 1020. Material fee as indicated in the Schedule of Classes. (T)

2100  Intermediate Grammar, Conversation and Composition I. Cr. 3
Prereq: FRE 2100. Special attention to development of language skills. Conducted entirely in French; discussion based on reading from contemporary materials. (T)

2110  Intermediate Grammar, Conversation and Composition II. Cr. 3
Prereq: FRE 2100. Continuation of FRE 2100. (Y)

3200  Conversation and Composition. Cr. 3
Prereq: FRE 2100 or 2110. Discussion and composition based on readings in contemporary French social and cultural topics. (Y)

3300  Readings in French and Francophone Literature and Culture. Cr. 3
Prereq: FRE 2100. An initiation into the reading of various literary genres. Methods and vocabulary to discuss and analyze the essays, poems, short novels, and plays under consideration. (T)

4610  Introduction to Literary Textual Analysis. Cr. 3
Prereq: any two of FRE 2100, 2110, 3300. Major genres and periods of French and francophone literatures; strategies of reading drawn from contemporary critical approaches. (F)

4620  Topics in Sociocultural Analysis. Cr. 3
Prereq: any two of FRE 2100, 2110, 3300. Initiation into reading a range of different media, verbal and visual, in French and francophone cultural texts, from poetry to prose (fictional and non-fictional), to painting, photography, architecture, and other media. (W)

5100  (WI) Advanced Composition. Cr. 3
Prereq: any two of FRE 2100, 2110, 3200 or consent of instructor. Spoken French in the context of French civilization. Readings and writing skills based on contemporary French texts, translations. (F)

5200  French Phonetics and Pronunciation. Cr. 3
Prereq: any two of FRE 2100, 2110, 3200 or consent of instructor. A systematic study of French sounds, phonetic transcriptions; practice in the language laboratory; intensive drills in accurate pronunciation and intonation. (F)

5305  Advanced Grammar and Stylistics. Cr. 3
Prereq: any two of FRE 2100, 2110, 3200, or consent of instructor. Advanced French grammar. Translation exercises from English to French; study of appropriate grammar rules. (Y)

5750  (ENG 5750) Theories of Second Language Acquisition. (CLA 5750) (GER 5750) (ITA 5750) (LIN 5750) Cr. 3
Investigation of theories in second language acquisition. Review of research in development of second language competence: acquisition of phonology, lexicon, semantics, syntax, discourse, and pragmatics. (B)

5810  Teaching Foreign Languages: Receptive Skills. (CLA 5810) (CLA 7810)(GER 5810) (GER 7810) (LED 5810) (LED 7810) Cr. 3
Prereq: FRE 5850 or consent of instructor. Latest research on acquisition of reading and listening skills in a foreign language. Difference between receptive and productive language use; how methods of foreign language teaching treat the instruction of the receptive skills. (B)

5820  Teaching Foreign Languages: Productive Skills. (CLA 5820) (CLA 7820) (GER 5820) (GER 7820) (LED 5820) (LED 7820) Cr. 3
Prereq: FRE 5850 or consent of instructor. Current research on acquisition of speaking and writing skills in a foreign language. Differ-
ence between productive and receptive language use; how various methods of foreign language teaching treat the instruction of productive skills. (B)

5830  (GER 5830) Technology in the Foreign Language Classroom. (CLA 5830) (CLA 7830) (FRE 5830) (GER 7830) (LED 5830) (LED 7830) Cr. 3
Prereq: FRE 5850 or consent of instructor. Types of current technology; review of research on effectiveness of language classroom technologies; evaluation of technologies; development of activities for use in classroom. (B)

5850  (GER 5850) Second Language Instruction: Theory and Methods. (CLA 5850) (CLA 7850) (FRE 5850) (GER 7850) Cr. 3
Theoretical basis of second language teaching models; historical overview of methodologies; current trends in teaching of reading, writing, listening, speaking, and culture. Implications of methodology on materials, classroom techniques, and testing. (B)

5860  (GER 5860) Foreign Language Testing. (CLA 5860) (CLA 7860) (FRE 5860) (GER 7860) Cr. 3
Prereq: FRE 5750 or consent of instructor. Means of assessing students' knowledge of a foreign language. Topics include: ACTFL Oral Proficiency Interview; testing of reading, writing, speaking and listening skills; means of testing grammar and culture; testing as it relates to program goals. (Y)

5998 Honors Thesis in French. Cr. 3-6
Prereq: consent of French undergraduate adviser. Open only to Honors students in French. (T)

6400  The Structure of French. Cr. 3
Prereq: FRE 5200 or written consent of instructor. Study of various linguistic systems at work in the French language: phonology, morphology, syntax, semantics. (F)

6450 French Civilization. Cr. 3
Prereq: any two of 3200, 4610, 4620, or consent of instructor. Introduction to French history and society from origins of France to the Fifth Republic; interrelation of socio-political developments to cultural movements in French art and thought. (B)

6470 Contemporary French Society and Institutions. Cr. 3
Prereq: any two of FRE 3200, 4610, 4620, or consent of instructor. French political and social institutions and practices since World War II. Comparative study of examples from American institutions and practices. (B)

6510 French Sixteenth Century Literature. Cr. 3
Prereq: FRE 4610 or 4620 or consent of instructor. Study of the principal genres represented by: Marot, Sceve, Labe, Du Bellay, Ronsard, D'Aubigné, Montaigne and others. Topics to be announced in Schedule of Classes. (B)

6610 French Seventeenth Century Literature. Cr. 3
Prereq: FRE 4610 or 4620 or consent of instructor. Historical background, religious and literary movements. Development of the Classical ideal in literature, salons, and academies. Representative authors of non-dramatic literature and the theatre (Corneille, Moliere and Racine). Content varies to cover a genre, literary movement, school or period. Topics to be announced in Schedule of Classes. (B)

6650 French Eighteenth Century Literature. Cr. 3
Prereq: FRE 4610 or 4620 or consent of instructor. The four major philosophes: Montesquieu, Diderot, Voltaire and Rousseau; precursors such as Cyrano, Fontenelle and Bayle. Developments in prose fiction and theatre; representative works of these genres. Content varies to cover a genre, literary movement, school or period. Topics to be announced in Schedule of Classes. (B)

6770 Studies in French Literature. Cr. 3
Prereq: FRE 4610 or 4620 or consent of instructor. Study of one of the major literary genres: prose, poetry or drama; its development from origins to present time. Emphasis on textual analysis. Topics to be announced in Schedule of Classes. (B)

6810 French Nineteenth Century Literature. Cr. 3
Prereq: FRE 4610 or 4620 or consent of instructor. Romanticism, Realism, Naturalism, Parnassian poetry, and the theatre of the second half of the nineteenth century. Chateaubriand, Hugo, Flaubert, Zola, Leconte de Lisle, Beuve, and others. Course content will vary to cover a genre, or literary movement, school or period. Topics to be announced in the Schedule of Classes. (B)

6840 French Twentieth Century Literature. Cr. 3
Prereq: FRE 4610 or 4620 or consent of instructor. Literary movements and representative authors from the turn of the century to the present. Course content will cover a genre or literary movement, school or period. Topics to be announced in Schedule of Classes. (B)

6860 Francophone Literatures. Cr. 3 (Max. 6)
Prereq: FRE 4610 or 4620 or consent of instructor. Studies in literature of French expression as represented in the distinct traditions of Africa and the West Indies, Canada and Switzerland. Topics to be announced in Schedule of Classes. (B)

Special Courses (FRE)

5000 Minor Language Practicum. Cr. 3 (Max. 9)
Prereq: consent of graduate adviser. Offered for S and U grades only. No degree credit toward Ph.D. Controlled application of active language skills for students electing a Ph.D. minor in French. (T)

5990 Directed Study. Cr. 1-4 (Max. 8)
Prereq: consent of adviser. (T)

ITALIAN COURSES (ITA)

1010 Elementary Italian. Cr. 4
Ear training, grammar, reading, writing, speaking; emphasis on ability to speak and read Italian. Material fee as indicated in the Schedule of Classes. (T)

1020 Elementary Italian. Cr. 4
Prereq: ITA 1010 or placement. Continuation of ITA 1010. Composition, conversation, reading of simple modern prose. Material fee as indicated in the Schedule of Classes. (T)

2010 (FC) Intermediate Italian. Cr. 4
Prereq: ITA 1020 or placement. Continuation of ITA 1020. Grammar review, composition, conversation, reading, discussion of contemporary Italian culture. Material fee as indicated in the Schedule of Classes. (T)

3040 Italian for Business. Cr. 3
Prereq: ITA 2010. Italian for basic business, legal and banking transactions and correspondence. Vocabulary and structures of business, training in preparing business documents, C.V.'s, invoices, complaints. Familiarization with Italian businesses, as well as with cultural practices and differences. (B)

3100 Italian Conversation. Cr. 3
Prereq: ITA 2010 or placement. Conversation based on current topics and reading materials. (T)

3200 Italian Grammar and Composition. Cr. 3
Prereq: ITA 2010 or placement. Advanced study of Italian grammar, phonetics, and syntax. Practice in writing themes and translations. (T)
3600  Masterpieces of Italian Literature I. Cr. 3  
Prereq: ITA 2010 or consent of instructor. Representative works or selections from the writings of the major authors from the thirteenth through seventeenth centuries. (F)

3610  Masterpieces of Italian Literature II. Cr. 3  
Prereq: ITA 2020 or consent of department. Representative works or selections from the writings of the major authors from the eighteenth through twentieth centuries. (W)

5750  (ENG 5750) Theories of Second Language Acquisition. (CLA 5750) (FRE 5750) (GER 5750) (LIN 5750) Cr. 3  
Investigation of theories in second language acquisition. Review of research in development of second language competence: acquisition of phonology, lexicon, semantics, syntax, discourse, and pragmatics. (B)

5810  (FRE 5810) Teaching Foreign Languages: Receptive Skills. (CLA 5810) (CLA 7810) (FRE 7810) (GER 5810) (GER 7810) (ITA 7810) Cr. 3  
Prereq: ITA 5850 or consent of instructor. Latest research on acquisition of reading and listening skills in a foreign language. Difference between receptive and productive language use; how methods of foreign language teaching treat the instruction of the receptive skills. (B)

5820  (FRE 5820) Teaching Foreign Languages: Productive Skills. (CLA 5820) (CLA 7820) (FRE 7820) (GER 5820) (GER 7820) (ITA 7820) Cr. 3  
Prereq: ITA 5850 or consent of instructor. Current research on acquisition of speaking and writing skills in a foreign language. Difference between productive and receptive language use; how various methods of foreign language teaching treat the instruction of productive skills. (B)

5830  (GER 5830) Technology in the Foreign Language Classroom. (CLA 5830) (CLA 7830) (FRE 5830) (FRE 7830) (GER 7830) (ITA 7830) Cr. 3  
Prereq: ITA 5850 or consent of instructor. Types of current technology; review of research on effectiveness of language classroom technologies; evaluation of technologies; development of activities for use in classroom. (B)

5850  (GER 5850) Second Language Instruction: Theory and Methods. (CLA 5850) (CLA 7850) (FRE 5850) (FRE 7850) (GER 7850) (ITA 7850) Cr. 3  
Theoretical basis of second language teaching models; historical overview of methodologies; current trends in teaching of reading, writing, listening, speaking, and culture. Implications of methodology on materials, classroom techniques, and testing. (B)

5860  (GER 5860) Foreign Language Testing. (CLA 5860) (CLA 7860) (FRE 5860) (FRE 7860) (GER 7860) (ITA 7800) Cr. 3  
Prereq: ITA 5750 or consent of instructor. Means of assessing students' knowledge of a foreign language. Topics include: ACTFL Oral Proficiency Interview; testing of reading, writing speaking and listening skills; means of testing grammar and culture; testing as it relates to program goals. (Y)

5993  (WI) Writing Intensive Course in Italian. Cr. 0  
Prereq: junior standing, consent of instructor; coreq: any 3000- or 6000-level Italian literature course. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with designated corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. (F, W)

6610  Dante: Divine Comedy. Cr. 3  
Prereq: ITA 3600 or consent of instructor. A close reading of Dante's Commedia, with attention to sources, background, and interpretation. (B)

6680  Studies in Renaissance Literature. Cr. 3 (Max. 9)  
Prereq: ITA 3600 or consent of instructor. The major contributions of the Italian Renaissance, including lyric poetry from Petrarch to Mariano; Boccaccio and the Novella Tradition; Humanism; the epic poetry of Boiardo, Ariosto and Tasso; Machiavelli and the political essayists. Topics to be announced in Schedule of Classes. (Y)

6790  Studies in the Italian Theatre. Cr. 3 (Max. 9)  
Prereq: ITA 3600 and 3610 or consent of instructor. The development of the Italian theatre in the Middle Ages and Renaissance; the modern Italian theatre, or study of a single movement. Topics to be announced in Schedule of Classes. (B)

6830  Studies in Modern Italian Poetry. Cr. 3 (Max. 9)  
Prereq: ITA 3610 or consent of instructor. Selected studies of movements, themes, periods or poets. Topics to be announced in Schedule of Classes. (B)

6870  Studies in Modern Italian Fiction. Cr. 3 (Max. 9)  
Prereq: ITA 3610 or consent of instructor. Study of a genre, movement, theme, or period. Topics to be announced in Schedule of Classes. (Y)

Special Courses (ITA)

5000  Minor Language Practicum. Cr. 3 (Max. 9)  
Prereq: consent of graduate adviser. Offered for S and U grades only. No degree credit toward the Ph.D. Controlled application of active language skills for students electing a Ph.D. minor in Italian. (T)

5990  Directed Study. Cr. 1-4 (Max. 8)  
Prereq: consent of adviser. (T)

SPANISH COURSES (SPA)

1010  Elementary Spanish I. Cr. 4  
Ear training, grammar, reading, writing, speaking. Material fee as indicated in the Schedule of Classes. (T)

1020  Elementary Spanish II. Cr. 4  
Prereq: SPA 1010 or placement. Continuation of SPA 1010. Material fee as indicated in the Schedule of Classes. (T)

1060  Elementary Spanish I and II. Cr. 6  
Prereq: one year of high school Spanish or one semester of college Spanish. Placement recommended. Training in pronunciation, aural comprehension, oral and written expression; review of material normally covered in SPA 1010 followed by in-depth presentation of material covered in SPA 1020. (T)

2010  (FC) Intermediate Spanish I. Cr. 4  
Prereq: SPA 1020 or placement. Grammar review; emphasis on compositions, reading, conversation. Material fee as indicated in the Schedule of Classes. (T)

2025  Intermediate Spanish II. Cr. 3  

3040  Commercial Spanish. Cr. 3  
Prereq: SPA 2025. Commercial Spanish for basic business, legal and banking transactions and correspondence; terminology used in banking, commerce, accounting and marketing; emphasis on translation and format of commercial documents and letters. (I)
3050  Medical Spanish. Cr. 3
Prereq: SPA 2025. Basic medical vocabulary in Spanish; taught entirely in Spanish. Conversation, dialogue, writing medical reports, role playing, mock medical situations. Videotapes and lectures on specific medical topics. (B)

3100  Grammar Review and Composition. Cr. 3
Prereq: SPA 2025 or placement. Study and utilization of grammar in speech and writing; pronunciation and intonation. Conducted entirely in Spanish. (Y)

3200  Conversation. Cr. 3
Prereq: SPA 2025. Informal class conversations, debates and oral reports to reinforce grammatical principles and to improve pronunciation through practice and imitation. (B)

3300  Readings in Hispanic Literature and Culture. Cr. 3
Prereq: SPA 2025 or placement. Discussion of literary and cultural readings from Spain and Spanish America; vocabulary building; speaking and reading emphasized. (Y)

4610  Survey of Spanish Literature I. Cr. 3
Prereq: SPA 3300. Spanish literature from the Middle Ages to 1700. (T)

4620  Survey of Spanish Literature II. Cr. 3
Prereq: SPA 3300. Spanish literature from 1700 to the present. (Y)

4630  Survey of Spanish American Literature I. Cr. 3
Prereq: SPA 3300. Survey of Spanish American literature from the pre-Colombian period to the end of the nineteenth century. (Y)

4640  Survey of Spanish American Literature II. Cr. 3
Prereq: SPA 3300. Literature from 1900 to the present. (B)

5100  (WI) Advanced Composition. Cr. 3

5200  Spanish Phonetics. Cr. 3
Prereq: SPA 3100 or consent of instructor. A systematic study of Spanish sounds; conducted in Spanish. (B)

5300  Advanced Grammar and Stylistics. Cr. 3
Prereq: SPA 5100 or placement. Intensive study of grammar and syntax. Free composition and conversation. Conducted in Spanish. (B)

5400  Technical and Literary Translation. Cr. 3
Prereq: SPA 3100. English-Spanish and Spanish-English translations, literary and technical. Idioms in technical, business and legal contexts. Computerized translation technology. (B)

5550  Spanish Culture and its Tradition. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Spain’s cultural history: painting, sculpture, architecture and music, through films, records, newspapers, and other texts. (B)

5560  Spanish American Cultures and their Traditions. (CBS 5560) Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Spanish America before and after the discovery of the New World. Art, music, customs, contemporary institutions, through films, records, newspapers, gallery visit to Detroit Institute of Art, and the text. (B)

5570  Topics in Hispanic Culture or Language. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Specific themes or aspects such as: New Spanish Cinema and the emergence of oppositional voices in film within the Francoist regime. (Y)

5750  (ENG 5750) Theories of Second Language Acquisition. (CLA 5750) (FRE 5750) (GER 5750) (ITA 5750) (LIN 5750) (SPA 7750) Cr. 3
Investigation of theories in second language acquisition. Review of research in development of second language competence: acquisition of phonology, lexicon, semantics, syntax, discourse, and pragmatics. (B)

5810  (FRE 5810) Teaching Foreign Languages: Receptive Skills. (CLA 5810) (CLA 7810) (FRE 7810) (GER 5810) (GER 7810) (SPA 7810) Cr. 3
Prereq: SPA 5850 or consent of instructor. Latest research on acquisition of reading and listening skills in a foreign language. Difference between receptive and productive language use; how methods of foreign language teaching treat the instruction of the receptive skills. (B)

5820  (FRE 5820) Teaching Foreign Languages: Productive Skills. (CLA 5820) (CLA 7820) (FRE 7820) (GER 5820) (GER 7820) (SPA 7820) Cr. 3
Prereq: SPA 5850 or consent of instructor. Current research on acquisition of speaking and writing skills in a foreign language. Difference between productive and receptive language use; how various methods of foreign language teaching treat the instruction of productive skills. (B)

5830  (GER 5830) Technology in the Foreign Language Classroom. (CLA 5830) (CLA 7830) (FRE 5830) (GER 7830) (SPA 7830) Cr. 3
Prereq: SPA 5850 or consent of instructor. Types of current technology; review of research on effectiveness of language classroom technologies; evaluation of technologies; development of activities for use in classroom. (B)

5850  (GER 5850) Second Language Instruction: Theory and Methods. (CLA 5850) (CLA 7850) (FRE 5850) (FRE 7850) (GER 5850) (SPA 7850) Cr. 3
Theoretical basis of second language teaching models; historical overview of methodologies; current trends in teaching of reading, writing, listening, speaking, and culture. Implications of methodology on materials, classroom techniques, and testing. (B)

5860  (GER 5860) Foreign Language Testing. (CLA 5860) (CLA 7860) (FRE 5860) (FRE 7860) (GER 5860) (SPA 7860) Cr. 3
Prereq: SPA 5750 or consent of instructor. Means of assessing students’ knowledge of a foreign language. Topics include: ACTFL Oral Proficiency Interview; testing of reading, writing speaking and listening skills; means of testing grammar and culture; testing as it relates to program goals. (B)

6400  The Structure of Spanish. Cr. 3
Prereq: SPA 5200 or consent of instructor. Principles of linguistics and their application to Spanish. (B)

6410  Spanish Medieval Literature: Origins to 1500. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Main currents and masterworks of Spanish literature from its origins to 1500. (Formerly SPA 6500.) (B)

6420  Spanish Literature of the Renaissance. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Literary genres of the sixteenth century (poetry and narrative: picarones, pastoral, morisco, and chivalric). (Formerly SPA 6510.) (B)

6430  Spanish Literature of the Baroque Period. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Great poets of the Spanish seventeenth century: Lope de Vega, Gongora, Quevedo; as well as the prose of Quevedo and Gracian. Literary selections studied within
the unique cultural climate of the Spanish Baroque. (Formerly SPA 6510.)

6440 Spanish Literature of the Eighteenth Century. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Literature of the Spanish Enlightenment; major works and literary trends and movements in the Spanish eighteenth century up to Romanticism. (Formerly SPA 6520.)

6450 Spanish Romanticism. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Origins and development of Romanticism in Spain: theatre, poetry, costumbrismo, and other narrative. (Formerly SPA 6520.)

6460 The Spanish Novel of the Nineteenth Century. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Representative works of the Realist and Naturalist movements. (Formerly SPA 6520.)

6470 The Spanish Novel of the Twentieth Century. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Novelists of the Generation of 1898, and representative authors before and after the Civil War; includes such trends as Tremendismo, Social Realism, and the contemporary experimental novel. (Formerly SPA 6993.)

6490 Spanish Poetry of the Nineteenth and Twentieth Centuries. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Representative figures and trends in Modern and contemporary Spanish poetry. Post-Romantics, Symbolists, the Generations of 1898 and 1927, and the more contemporary poets.

6560 Cervantes. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. A detailed study of Don Quijote. Other short works of Cervantes.

6570 The Comedia. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Analysis of plays by Lope de Vega, Tirso de Molina, Calderon, Maria de Zayas and other dramatists of Spain’s Golden Age.

6590 Genres and Topics in Peninsular Spanish Literature. Cr. 3 (Max. 9)
Prereq: SPA 4610, 4620, 4630, or 4640. Topics such as modern Spanish theatre, Generation of 1898, to be announced in Schedule of Classes.

6600 Spanish American Colonial Literature. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Major figures from the sixteenth to the nineteenth centuries. Poetry, prose, and theatre; the literature of the conquest; conflicts and tension of the dominant and the conquered societies.

6620 The Spanish American Novel II. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Roots of the modern novel in Spanish America; its stages of evolution through the vanguard period into the contemporary stage, with emphasis on representative figures such as Carpentier, Cortazar, and Garcia Marquez. (Formerly SPA 6860.)

6630 Spanish American Poetry. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Major poets and their texts from the period of Independence through the early stages of Modernism and Vanguard, to contemporary poetry.

6670 Latin American Novel to 1900. Cr. 3
Prereq: SPA 4610, 4620, 4630, or 4640. Late colonial period to 1900.
SOCIETY

Office: 2228 Faculty/Administration Building; 577-2930
Chairperson: Leon C. Wilson
Website: http://www.cla.wayne.edu/sociology/index.html

Professors
Joseph Albini (Emeritus), Ross Eshleman, Donald E. Gelfand, Janet R. Hankin, Mel J. Ravitz (Emeritus), Raye A. Rosen (Emeritus), Mary C. Sengstock, Leon H. Warshay

Associate Professors
Clifford J. Clarke, Thomas Duggan (Emeritus), Jennifer Hamer, Anne W. Rawls, Mary J. Van Meter (Emerita), Leon Wilson

Assistant Professors
Heather Dillaway, Chishamiso Rowley, Robert Silverman

Adjunct Faculty
Diane Brown, Center for Urban Studies; Elizabeth Chapleski, Institute of Gerontology; David Fasenfest, Center for Urban Studies; Heidi Gottfried, Center for Urban Studies; Kelly Patterson, Center for Urban Studies; Rosalie Young, Community Medicine

Degree Programs
BACHELOR OF ARTS with a major in sociology
*DOCTOR OF PHILOSOPHY with a major in sociology

The courses in sociology are designed for various groups of students: (1) those desiring scientific knowledge of social relationships as a part of their general education; (2) those planning to enter a public service profession such as social and urban planning, public administration, nursing, medicine, dentistry, or law; (3) those expecting to engage in work that will require a broad grasp of the nature of society, of public opinion, and of social change such as public affairs, journalism, public relations, communications, marketing, etc.; (4) those anticipating a career in social and statistical research and planning; (5) those looking forward to the teaching of social studies and sociology; (6) those preparing for a career in international studies or for service in foreign affairs; (7) those majoring in sociology as a preparation for graduate professional training in social work; (8) those planning to pursue graduate studies in sociology.

Students concerned with sociology as preparations for these careers are encouraged to consult with the undergraduate adviser and with members of the faculty.

Bachelor of Arts with a Major in Sociology

Admission Requirements for these programs are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the major requirements of one of the following programs. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 223. It is expected that Group Requirements will be fulfilled during the freshman and sophomore years. Language Group Requirements should normally be fulfilled before election of the major.

Major Requirements: Students majoring in sociology are required to elect a minimum of thirty credits in the field, including Sociology 2000, 3300, 4050 (or 6050 or 6060), 4100, 4200. Students may not elect more than forty-five credits in course work within the Department. All core courses must be completed with a grade of ‘C’ or better, with a minimum of thirty credits with a grade of ‘C’ or better.

Model Plan for Majors
Junior Year: Sociology 3300, 4200, 4050 (or 6050 or 6060), 4100; elective courses. Students are urged to take Sociology 4200 and 4050, in particular, in the junior year.

Senior Year: Elective courses; remaining requirements not taken in junior year.

Honors Program
An honors major in sociology is available to students who fulfill all requirements for the major, and who maintain a cumulative grade point average of at least 3.3 and at least 3.3 in sociology courses. Honors majors must demonstrate the ability to do original work by writing an Honors Thesis during their senior year. The Sociology Honors Program leads to a degree designation ‘With Honors in Sociology.’

Requirements for the Honors Degree are:
1. satisfaction of all requirements for a major in sociology;
2. overall g.p.a. of 3.3;
3. sociology g.p.a. of 3.3;
4. an approved honors thesis;
5. at least one 4000-level seminar offered through the Honors Program of the College of Liberal Arts. and
6. an accumulation of at least fifteen credits in honors-designated course work. For additional information on honors-designated courses available each semester, consult the University Schedule of Classes, or the Director of the Honors Program (577-3030).

‘AGRADE’ — Accelerated Graduate Enrollment

The Department of Sociology permits academically superior majors to petition for admission into the College’s ‘AGRADE’ Program. ‘AGRADE’ procedures enable qualified seniors in the Department to enroll simultaneously in the undergraduate and graduate programs of the College and apply a maximum of fifteen credits towards both a bachelor’s degree and a master’s degree in the major field. Students electing ‘AGRADE’ programs may expect to complete the bachelor’s and master’s degrees in five years of full-time study.

For more details about the ‘AGRADE’ Program, contact the Director of the College’s Honors Program (577-3030), the Chairperson of the Sociology Department, or the Graduate Office of the College of Liberal Arts (577-2690).

Minor and Cognate Study

Minor Requirements: A minor in sociology is offered for students majoring in other fields. The minor requires at least twenty credits including a core of:

SOC 2000 -- (SS) Understanding Human Society: Cr. 3
SOC 4050 -- Basic Sociological Theory: Cr. 4
SOC 4200 -- (WI) Methods of Social Research: Cr. 4

* For specific requirements, see the Wayne State University Graduate Bulletin.
All core courses must be completed with a grade of 'C' or better, with a minimum of twenty credits with a grade of 'C' or better.

**Sociology as a Career Component:** A good background in Sociology can be a valuable component of preparation for a variety of careers, professions, and occupations. The following information summarizes some of these opportunities. Faculty Advisers in Sociology can provide additional information on these and other areas as well.

1. **Human Services Work:** Students whose occupational aspirations include working with families, or with men and women in various types of human services or therapeutic settings (Social Work, Nursing, Education, Psychology, Law, Medicine) might consider electing one or more of the following courses: Sociology 3400 (Exploring Marriage and Other Intimate Relationships), 4460 (Women in Society), 5400 (The Family), 5410 (Marriage and Family Problems), 5870 (Violence in the Family).

2. **Business:** Students who are preparing for a career in business might consider electing Sociology 3300 (Social Institutions and Social Structure).

3. **Inter-Group Relations:** Any student whose future occupation will entail working with peoples of diverse ethnic and racial groups might be advised to consider taking the following course: Sociology 5570 (Race Relations in Urban Society).

4. **Crime and Criminal Justice:** Students whose career goals are in the areas of criminal justice, police work, corrections, probation, law, or related fields might be advised to select their elective courses from among the following: Sociology 2020 (Social Problems), 3820 (Criminology), 3840 (Penology), 4800 (Outsiders and Deviants), 5810 (Law in Human Society), 5870 (Violence in the Family), or 6860 (Organized Crime: Its History and Social Structure).

5. **Work with Health Agencies or the Aged:** Students who plan to work with the aged or in health care fields (social gerontology) might consider taking one of more of the following courses: Sociology 5360 (Introduction to Medical Sociology) or 5760 (Society and Aging).

**Sociology Courses (SOC)**

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

**2000** (SS) Understanding Human Society. Cr. 3
Analysis of basic sociological concepts and principles to give the student an understanding of the perspective that sociology brings to the study of human society.

**2020** (SS) Social Problems. Cr. 3
Consideration of major contemporary social problems which reveal structural strains, value conflicts, deviations and changes in society. Analysis of socio-cultural factors creating problems and of possible solutions.

**2050** (PCS 2050) The Study of Non-Violence. (HIS 2530) (P S 2550) Cr. 3
Intellectual and social roots of non-violence and the practice of non-violence in different people’s life styles.

**2100** Topics in Sociology. Cr. 3 (Max. 9)
Specialized and topical studies of sociological themes. Topics to be announced in Schedule of Classes.

**2360** Women and Health. (SOC 7100) Cr. 4
Analysis of sociological issues surrounding women and health, including gender differences in morbidity and mortality, the use of health services, interaction with providers, gender differences in mental disorder, alcoholism, drug abuse, gender roles and the professions of physicians and nurses.

Urban phenomena both past and present, including the quality and nature of urban life; major concerns of urban areas; perspectives and techniques of various urban related disciplines.

**2600** (AFS 2600) Race and Racism in America. Cr. 3
Examination of the nature and practice of racism in American society from its historical foundations to its contemporary institutional forms.

**3030** AIDS and Society. Cr. 3
Survey of social, epidemiological, physiological, legal and preventive issues surrounding AIDS.

**3300** (SS) Social Institutions and Social Structure. Cr. 4
Prereq: upper division standing. Structure and process in society, institutions, communities, and organizations. Scientific analysis of organization, conflict, and change in the economy, government, religion, education, and family.

**3350** Cults, Myths, and Religions in Society. Cr. 3
Objective analysis of the interrelations between religious phenomena and social institutions, social structure and behavior.

**3400** Exploring Marriage and Other Intimate Relationships. Cr. 3
Students examine, from a sociological perspective, issues concerning intimate relationships. Major emphasis on description and analysis of changes in monogamous marriage. Non-traditional marital forms also examined. Focus upon the intimate relationships as they relate to personal, functional concerns of the student.
3510 (SS) The Nature and Impact of Population on Society.  Cr. 3
Birth, death and migration investigated with respect to their social
causes and consequences for society and human behavior. The pop-
ulation explosion and its implication for government policy. Recom-
mended for students interested in urban studies, medicine, nursing,
political science and history. (B)

3820 Criminology. Cr. 3
Review and critique of explanations of criminal behavior. Criminal
behavior patterns, sources of crime statistics, social structure of crim-
inality, crime typologies, and other theoretical issues regarding crime
and delinquency. (T)

3840 (CRJ 4300) Corrections. Cr. 4
No credit after former SOC 5840. Description and analysis of legal,
social and political issues affecting contemporary correctional theory
and practice. Topics include: history of corrections, function and
social structure of correctional institutions, institutional alternatives
including diversion, probation and parole. Field trips to institutions
and community correctional settings normally required. (T)

3860 (AFS 3860) Race, Class and the Criminal Justice
System. Cr. 3
Prereq: upper division standing or criminal justice majors or minors.
Survey of race and class in the criminal justice system: police, courts,
juries and prisons. Socio-economic environment of offenders, and
effects of criminal justice process on their ability to function positively
within that environment. (T)

3880 Serial Killers. Cr. 3
Types of men and women who commit multiple murders and what
compels them to do so. Interdisciplinary and sociological factors in
serial killings; response to these killings. (Y)

3990 Directed Study. Cr. 1-3 (Max. 6)
Prereq: written consent of full time sociology instructor. Open only to
juniors and seniors with not less than sixteen credits in sociology,
with a grade of A or B. For students who show evidence of ability and
interest, and desire to do advanced reading. Part-time and student
instructors are ineligible to supervise directed study. (Y)

3991 Directed Study: Salford - W.S.U. Exchange. Cr. 3-9
Prereq: consent of departmental adviser. Open only to students
admitted to Salford-WSU Exchange Program. Directed study at Uni-
versity of Salford, England. (F,W)

3993 (HIS 3993) Topics in Canadian History, Society, Politics,
and Culture. (P S 3993) (GPH 3993) (ENG 3993) Cr. 1-4
Significant topics and issues in the development of Canadian history,
society, politics, and culture. (F,W)

4000 Music and Society. Cr. 3
Sociological theories of impact of music in society; social problems
expressed in music. Critical analysis of how music is used individu-
ally; influence of music in everyday living. (F,S)

4050 Basic Sociological Theory. Cr. 4
Introduction to sociological theory from a general conceptual frame-
work. Major concepts, theoretical positions and recent trends in theo-
retical sociology will be considered. (Y)

4100 (SS) Social Psychology. Cr. 4
An introduction to the major issues in social psychology. Topics such
as socialization, social perception, self-conceptions and social defini-
tions of selves and situations. (T)

4200 (WI) Methods of Social Research. Cr. 4
An elementary research methods course that covers the process of
doing social research, including research design, data collection
techniques, processing and analysis of data, as well as the interpre-
tation of data. (Y)
5540  (ANT 5060) Urban Anthropology. Cr. 3
Prereq: ANT 2100 or consent of instructor. Socio-cultural effects of urbanization in the developing areas of the world, particularly Africa, Latin America, Southeast Asia and India. The process of urbanization. The anthropological approach in the area of urban studies. (I)

5570  Race Relations in Urban Society. (AFS 5570) Cr. 3
Theoretical orientations applied analytically to enhance an understanding of the patterned structures of privilege in society which are based on race. Inequality, segregation-desegregation, pluralism; social structural frameworks; some attention to social-psychological aspects of topics such as prejudice and racism. (I)

5580  (AFS 5580) Law and the African American Experience. Cr. 4
Prereq: upper division standing. Offered for undergraduate credit only. In-depth examination of the African American experience with law in the U.S.; historical development of the U.S. Constitution; legal barriers to equality and the influence of race on the law; use of law as a political instrument; participation of blacks in the legal process; comparisons with other countries. (B)

5700  Inequality and Social Class. Cr. 3
Analysis of the inequalities in societies, the United States and others. Causes of social class differences; varying structures of stratification; consequences for the individual, ethnic groups, political power; the conditions under which mobility occurs. (I)

5760  Society and Aging. Cr. 3
Personal, interpersonal and institutional significance of aging and age categories. Sociological dimensions of aging based on physical, social-psychological, and demographic backgrounds. (Y)

5810  Law in Human Society. (CRJ 5810) Cr. 3
Law and the legal structure in its social context. The development, enforcement and interpretation of law; emphasis on the American system of government. Reciprocal effects of law and the society in which it develops; comparative analysis. Designed for pre-law, criminal justice, and political science students, as well as for sociology majors. (Y)

5830  Juvenile Delinquency. Cr. 3
Nature, incidence, causes, treatment, prevention and control of juvenile delinquency. The juvenile justice system as distinguished from the criminal justice system. (Y)

5870  Violence in the Family. Cr. 3-4
Open for four credits to Liberal Arts Honors students only. Analysis of the nature of violence in family and family-like relationships; prevalence and types of family violence; social and psychological correlates of violence in families. (Y)

5880  Family Violence: Intervention. (S W 5880) Cr. 1-2
Prereq, or coreq: SOC 5870. Open to PACT students; others by consent of instructor. Application of theory and intervention techniques in the family experience of maltreatment. (Y)

6050  Sociological Theory Before 1920. Cr. 4
Prereq: SOC 2000 and 4050 or consent of instructor. Sociological theorists before 1920, their thought and the historical context in which such thought developed. (Y)

6060  Sociological Theory Since 1920. Cr. 4
Prereq: SOC 2000 and 4050 or consent of instructor. Historical and Theoretical analysis of sociological thought in the present century. Current trends in sociological theory. (Y)

6080  (PHI 5230) Philosophy of Science. Cr. 4
Prereq: PHI 1850 or PHI 1860 or any course from the Philosophical Problems group or consent of instructor. Intensive investigation and discussion of special topics or particular authors in the philosophy of science. Topics and authors to be announced in Schedule of Classes. (Y)

6280  Social Statistics. Cr. 4
Basic techniques for organizing and describing social data, measures of central tendency and dispersion, probability theory and hypothesis testing, tests of significance and confidence intervals, measures of association for two variables, analysis of variance. (Y)

6290  Advanced Social Statistics. Cr. 4
Prereq: SOC 6280. Multiple and partial correlation and multiple regression, dummy variable analysis, analysis of covariance, causal models for multi-dimensional contingency tables, path analysis techniques, introductory factor analysis, Markov chains, selected additional topics. (Y)

6400  Family Theories and Research. Cr. 3
Major sociological and social psychological theories relevant to the study of the family combined with a comprehensive survey of family research; these theories and research findings applied to contemporary family issues and family policy. (B)

6455  (U P 6455) Discrimination and Fair Housing. (U S 6455) (AFS 6455) (ECO 6455) Cr. 3
Prereq: senior or graduate standing. Multidisciplinary investigation into the nature, motivations, consequences, and legal/public policy implications of racial/ethnic discrimination in housing and related markets in U.S. metropolitan areas. (B)

6580  Applied Sociology I: Research and Theory in Applied and Clinical Settings. Cr. 4
Prereq: graduate students or advanced social science undergraduates. The logic of applied sociological theory and research design. Ethical issues in applied and clinical social science projects, and of contributions of related social science disciplines. Development of writing skills in applied and clinical research and theory. (Y)

6590  Applied Sociology II: Strategies for Changing Social Behavior. Cr. 3
Prereq: graduate students or advanced social science undergraduates. Analysis of theoretical and practical strategies for promoting the change of social behavior. Focus on behavior of the individual, small group, and community structural levels. Means of evaluating effectiveness of change strategies. Materials drawn from theory and practice in sociology and related social sciences. (Y)

6750  (ULM 6350) Sociology of Urban Health. Cr. 3
Prereq: graduate standing; undergraduates by consent of instructor. Review of theories and research on health status and health care delivery issues in urban communities. (Y)

6850  (ULM 6150) Political Economy of the Urban Ghetto. (ECO 6810) (U P 6670) Cr. 3
Prereq: graduate standing; upper division undergraduates by consent of instructor. Examination of the economic, social and political transformation of U.S. cities; particular attention to the formation, dynamics, economics and social sub-systems of urban ghettos and their relationship to broader contexts. (B)
WOMEN’S STUDIES

Office: Room 3226, 51 West Warren; 577-6331
Web: http://www.cla.wayne.edu/womensstudies

Director: Jennifer Sheridan Moss

Participating Faculty
Jorgelina Corbatta (Romance Languages and Literatures), Elizabeth Faue (History), Christopher Johnson (History), Marylyne Kilbey (Psychology), Gisela Labouve-Vief (Psychology), Donna Landry (English), Ruth Ray (English), May Seikaly (Near Eastern and Asian Studies), Mary Sungstock (Sociology), Jennifer Sheridan Moss (Classics, Greek and Latin), Chris Tysh (English), Anca Vlasopolos (English)

Co-Major Program

The Women’s Studies Program provides an interdisciplinary undergraduate curriculum designed to give students the theoretical bases and methodological skills for analyzing the historical, social, cultural, economic, and political contexts which influence women’s lives. The aims of the program are:

1. to instruct students in current scholarship on women and gender issues;
2. to explore the multicultural and international contexts of women’s lives;
3. to introduce students to the social, cultural, economic, and political contributions of women to the societies in which they live;
4. to provide an intellectually coherent curriculum for students to explore their individual investments in gender issues.

The program offers co-major and minor concentrations of study. The co-major is designed for students who wish both the diversity of a wide array of gender-related courses reflecting the range of university disciplines and the specialization to be derived from a substantial project utilizing gender theory and methods. The minor is intended for students whose programs are too demanding to accommodate the co-major requirements but who wish to pursue a significant amount of work in women’s and gender studies.

Students wishing to pursue a co-major or minor in women’s studies should meet with a program director for advising.

CO-MAJOR REQUIREMENTS consist of thirty-two credits as cited below. At least three courses must address race/ethnicity and gender as an integral issue and at least one course must address international issues.

W S 2700 -- Interdisciplinary Topics in Women’s Studies (Cr. 3): Cr. 6
W S 3010 -- (SS) Interdisciplinary Introduction to Women’s Studies: Cr. 3-4
W S 5010 -- Women’s Studies Theories: Cr. 3
W S 5990 -- Senior Project Seminar: Cr. 4
Group One Electives (see below) -- at least eight credits: Cr. 8
Additional electives from Group One or Group Two (see below): Cr. 3-8

MINOR REQUIREMENTS consist of eighteen credits distributed as follows:

W S 2700 -- Interdisciplinary Topics in Women’s Studies: Cr. 3
W S 3010 -- (SS) Interdisciplinary Intro. to Women’s Studies: Cr. 3-4
W S 5010 -- Women’s Studies Theories: Cr. 3
Electives from Group One or Two (see below): Cr. 9

Group One Electives

These courses are informed by current debates in feminist theory regarding the nature of feminism as perceived by women from different races and ethnicities — an issue central to women’s studies programs, departments, and organizations throughout the United States.

Group Two Electives

These courses raise questions about their particular discipline from a feminist perspective and have a substantial component devoted to gender issues. Many of these entries are variable topics courses in which different specific contents are offered either in different sections or in different terms as reflected in the Schedule of Classes. For use as Women’s Studies co-major or minor credit all such courses are cited below as applicable only when approved by the Program Director.

A H 5750 -- Contemporary American Art (when approved): Cr. 3
A H 6730 -- Contemporary Theory and the Visual Arts (when approved): Cr. 3
CLA 3190-- Topics on Women in Antiquity: Cr. 3
ENG 5150 -- Shakespeare (when approved): Cr. 3
GER 5400 -- Cultural Studies and Criticism (when approved): Cr. 3-4
HIS 5390 -- Europe in the Age of the Reformation (when approved): Cr. 3
ISP 6110 -- Seminar in Historical and Cultural Studies: Cr. 4
SOC 5870 -- Violence in the Family: Cr. 3-4
COM 5020 -- Studies in Film History (when approved): Cr. 4
COM 3010 -- Media Analysis and Criticism (when approved): Cr. 3

Courses cited in the women’s studies curriculum which are resident in other departments and count toward those departmental majors and/or group requirements may also count toward women’s studies co-major or minor credit. Each semester the Program Director prepares a course list of offerings for the subsequent term in order to help students make selections. This list is available in the office of the Women’s Studies Program and is listed on the Women’s Studies Website: http://www.cla.wayne.edu/womensstudies

WOMEN’S STUDIES COURSES (W S)

The following courses are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 481.

2700 Interdisciplinary Topics in Women’s Studies. Cr. 3 (Max. 9)

Topics addressed from a variety of disciplinary approaches, such as: women and representation, women and violence, women’s roles around the globe. Multicultural and international issues of concern to women, based in contemporary women’s studies scholarship. (F,W)

3010 (SS) Interdisciplinary Introduction to Women’s Studies. Cr. 3-4

Topics addressed from variety of approaches, such as: women and representation, women and violence, women’s roles around the globe, multicultural and international issues of concern to women. (T)

3520 (N E 3520) Women and Gender in Middle East History. Cr. 4

Women’s role in Middle East history; impact of religion, culture, social and economic change on construction of gender in the Middle East. (Y)
3750  (CRJ 3750) Gender Issues for Criminal Justice Professionals. Cr. 4
Becoming aware of gender issues faced by criminal justice professionals; explanation of issues through sociological theory; research studies; suggested system improvements.  (F,W)

3990  Directed Studies. Cr. 1-3
Prereq: W S 3010, consent of program director. Individually-designed research projects, developed with a supervising professor and approved by program director.  (T)

4030  (COM 4030) Gender and Communication. Cr. 3
Analysis of gender communication issues within interpersonal, group, organizational, intercultural, public, and mass mediated contexts.  (Y)

5010  Women's Studies Theories. Cr. 3
Prereq: W S 3010 or written consent of instructor. Investigation of what is defined as theory in the women's movement and within the discipline of women's studies; focus on current debates within women's studies and their relationship to grassroots politics. Attention given to race, class, sexuality, colonialism, and the construction of gendered categories.  (b)

5030  (ENG 5030) Topics in Women's Studies. Cr. 3 (Max. 9)
Prereq: 12 credits in ENG above the 1000 level. Thematic, critical or generic study of women and literature. Topics to be announced in Schedule of Classes.  (Y)

5110  (AFS 5110) Black Women in America. Cr. 3
Social, cultural, artistic and economic development of Black women in America; topics include: racism, sexism, marriage, motherhood, feminism, and the welfare system.  (Y)

5990  Senior Project Seminar. Cr. 4
Prereq: W S 2700, 3010, 5010; consent of instructor and program director. Scholarly research project or internship combined with scholarship, resulting in substantial paper. Students meet with instructor several times during semester.  (Y)
LIBRARY and INFORMATION SCIENCE PROGRAM

DEAN: Sandra G. Yee
The Information Profession

The field of library and information service is experiencing dramatic growth and change. For those entering the information field, the future holds challenging prospects. Undergraduates may prepare themselves for the challenges of the information age by enrolling in library and information science courses. These courses will help students gain library and research skills during their undergraduate studies and provide preparation for graduate work in and admission to the graduate Master of Library and Information Science (M.L.I.S.) degree program. The ALA-accredited M.L.I.S. degree is internationally recognized as the first professional degree in the field.

Engaged in challenging careers, qualified information professionals are working in varied settings all over the globe. In the United States alone, approximately 150,000 of these professionals are employed in 125,000 libraries; others are using their library and research skills in information services outside of traditional library settings. With more than fifty per cent of today's gross national product related to the management of information, career opportunities for individuals trained in library and information science are abundant and diverse.

In this new century and beyond, information professionals will have a wider than ever choice of where and how to apply their knowledge and abilities. Exciting career opportunities will exist in both the public and private sectors, including business, law, medicine, publishing, government, archives and museums, communications and media, engineering, academic environments, and pre-K to grade 12 education.

Background

The Library and Information Science Program is under the administrative jurisdiction of the Dean of University Libraries and Library and Information Science, with degrees granted by the Graduate School of the University. Since the first library courses were offered in 1918, the program has experienced many changes, but its mission has remained constant: to prepare individuals for challenging service in the dynamic field of library and information science.

The Library and Information Science Program at Wayne State University traces its origins to 1918, at which time courses in school librarianship were offered to elementary teachers in the Detroit Public Schools by the Detroit Normal Training School. The Training School later became the Detroit Teachers College, and the library program was expanded. In the 1930s, a bachelor's degree with a minor in library science was offered, designed for the preparation of elementary and secondary school librarians. Subsequently, the Detroit Teachers College united with several other institutions to become the University's College of Education and courses in library science were offered through that College.

By 1940, a master's degree program (Master of Education) had been implemented for library science majors. In 1956, Wayne University became Wayne State University; the Department of Library Science expanded its program to provide graduate education for a wide range of specializations, and a Master of Science degree program in Library Science (M.S.L.S.) was established.

Through the 1960s and 1970s, the Department of Library Science broadened and diversified its program to include not only undergraduate and graduate courses, but also a series of continuing education programs. The Department became the Library Science Program, and the Specialist Certificate in Library Science was created to serve those practicing librarians who wished to update their knowledge and professional skills. In 1993 the Library Science Program, by Board of Governors' action, changed its name to the Library and Information Science Program, and the master's degree was changed to Master of Library and Information Science (M.L.I.S.). The Library and Information Science Program also offers a certificate program in archival administration, in conjunction with the History Department of the College of Liberal Arts.

Accreditation: The Library and Information Science Program first received accreditation for its master's degree by the American Library Association in 1967; the M.L.I.S. degree was again accredited by the Committee on Accreditation of the ALA in 1996 for a seven-year period. The Program was reviewed for accreditation during 2002.

Mission Statement

The mission of the Library and Information Science Program is to prepare students to assume professional roles in varied and evolving library and information environments.

Goals and Objectives

The goals of the Library and Information Science Program are to:

1. Assume a leadership role in traditional and interdisciplinary research and scholarship that address information and library issues.

2. Educate within and for a rapidly-changing technological world.

3. Prepare students to understand the interactions between social factors and information environments.

4. Teach and foster professional attitudes and a service philosophy.

5. Engage the diverse community of which we are a part.

The Program will seek diversity among the faculty. The Program will seek diversity among the student body. The Program will facilitate student experience in multicultural and multiethnic information environments. The Program will support underrepresented groups. The faculty will integrate urban issues across the program.
Facilities

University Libraries: Wayne State University has six libraries with a total of three million books and eighteen thousand current subscriptions to periodicals, plus a wide selection of electronic resources. The Purdy/Kresge Library complex houses all materials in the fields of human behavior, education, humanities, and social sciences, as well as all general periodicals. This complex also contains Library Computing and Media Services; and the offices and classrooms of the Library and Information Science Program.

The David Adamany Undergraduate Library serves as a state-of-the-art facility for first- and second-year undergraduates. Resources include computer laboratories for teaching, over 500 computers for student usage, a 24-hour study area plus individual study rooms, the Media Center for films and videotapes, the WSU Writing Center, and lab facilities for the Computing and Information Technology Division (C&IT).

Computer science, engineering, life sciences, nursing, and physical science materials are housed in the Science and Engineering Library. Legal documents and related materials are located in the Arthur Neef Law Library. Health science materials are located in the Vera Shiffman Medical Library.

The Walter P. Reuther Library of Labor and Urban Affairs is a rich source of archival materials. It includes the personal papers of many urban leaders and is an important source of original data regarding Detroit, the auto industry, and unionization.

The location of Wayne State University in the heart of Detroit’s cultural center provides additional advantages to the library and information science student. Readily available to the University student are the main branch of the Detroit Public Library, the professional research library of the Detroit Institute of Arts, the Detroit Historical Museum, and the Charles H. Wright Museum of African American History.

Computer Laboratories: The Library and Information Science (LIS) Program’s computer laboratory is intended for LIS Program students, faculty and staff. Students can access the University Libraries’ network, a variety of common library databases, full-text e-journals, and Internet-accessible resources. Located in the Kresge Library, the laboratory provides hands-on experience in accessing a variety of information retrieval systems, as well as other computer applications in library and information service. Library and information science students also have access to the computing facilities located in the Instructional Computing Lab of the Purdy Library and in the David Adamany Undergraduate Library.

UNDERGRADUATE PROGRAM

Undergraduates interested in enrolling in library and information science courses should consult with an adviser in the Library and Information Science Program regarding admission requirements, sequence of courses, the curriculum, career planning, professional development, job opportunities, and Senior Rule requirements.

Graduate Degrees and Certificates

*MASTER OF LIBRARY AND INFORMATION SCIENCE
*SPECIALIST CERTIFICATE in Library and Information Science
*GRADUATE CERTIFICATE in Archival Administration

* For specific requirements, see the Wayne State University Graduate Bulletin.

COLLEGE DIRECTORY

Dean of University Libraries and Library and Information Science: Sandra G. Yee; 3100 Adamany Library; 577-4020
Interim Director of Library and Information Science Program: Joseph J. Mika; 106 Kresge Library; 577-6196
Academic Services Officer: Jennifer Bondy; 106 Kresge Library; 577-2523
General Information: 314.4 Kresge Library (313) 577-1825; Toll-free: (877) 263-2665; Fax: (313) 577-7563
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Web: http://www.lisp.wayne.edu

FACULTY

Professors
Genevieve M. Casey (Emerita), Carol A. Doll, Robert P. Holley, Michael Keresztesi (Emeritus), Philip Mason, Joseph J. Mika, Edith Phillips (Emerita), Vern Pings (Emeritus), Ronald R. Powell, Peter Spyers-Duran (Emeritus), Dian Walster

Associate Professors
Lynda M. Baker, Betty Maustard (Emerita), Gordon B. Neavill
Assistant Professors
Hermina Anghelescu, Kalyani Ankem, Ronald A. Day
Senior Lecturer
Judith J. Field
Lecturer
John Heinrichs

Interdisciplinary Faculty and Staff

James Blake, Teacher Education, College of Education; Duryea Callaway, DALNET, University Libraries; Patricia Case, Center for Urban Studies, College of Urban, Labor, and Metropolitan Affairs; Anaclare F. Evans, DALNET, University Libraries; Daren Hubbard, Academic Computing Services, C&IT; Frances Krempasky, Resource Acquisitions and Metadata Services, University Libraries; Cynthia H. Krolkowski, Purdy Library, University Libraries; William LeFevre, Walter P. Reuther Library of Labor and Urban Affairs, College of Urban, Labor, and Metropolitan Affairs; Ellen Marks, Shiffman Medical Library, University Libraries; Sandra Martin, Shiffman Medical Library, University Libraries; Cindy McGee, David Adamany Undergraduate Library, University Libraries; Howard S. McMinn, Science and Engineering Library, University Libraries; Vanessa Middleton, Purdy Library, University Libraries; Gary Morrison, Instructional Technology, College of Education; Janet Nichols, David Adamany Undergraduate Library, University Libraries; Rita Richey, Instructional Technology, College of Education; R. Craig Roney, Teacher Education, College of Education; Kathleen E. Schmeling, Walter P. Reuther Library of Labor and Urban Affairs, College of Urban, Labor, and Metropolitan Affairs; Lothar Spang, David Adamany Undergraduate Library, University Libraries; Jacqueline Tilles, Teacher Education, College of Education; Mary Waker, Dean’s Office, College of Education; Anne Williamson, Teacher Education, College of Education

Library and Information Science Program 313
Adjunct Faculty and Part-Time Faculty

Leslie Behm, Michigan State University; Susan Bird, Livonia MI; Jan Bissett, Dickinson Wright PLLC, Bloomfield Hills MI; Morell Boone, Halle Library, Eastern Michigan University; Ricki Chowning, Ottawa Area School District, Holland, MI; Julia Daniel, Econ LLC, MI; Pamela Grudzien, Park Library, Central Michigan University; Deborah Gouin, Lansing Community College, MI; Cliff Haka, Main Library, Michigan State University; Charles D. Hanson, Grosse Pointe Farms MI; Richard Hathaway, Lansing MI; William Hill, Grand Rapids Public Library, MI; Colleen Hyslop, Michigan State University; Nancy Becker Johnson, Ann Arbor MI; Phyllis Jose, Oakland County Library, Pontiac MI; Ruth Lumpkins, Grand Rapids MI; Terence Madden, Ann Arbor MI; Martha McKee, Lansing MI; Jennifer Moldwin-Gustafson, Detroit Institute of Arts, MI; Romie Minor, Detroit MI; Lise Mitchell, Veterans Memorial Library, Mount Pleasant MI; Blaine V. Morrow, Michigan State University; Susan Pritts, Ann Arbor MI; Robert E. Raz, Grand Rapids Public Library, MI; Margaret Roytek, General Motors Education Relations, MI; Sherry M. Schmidli, Macomb County Library, Clinton Township MI; Kimberly Schroeder, Archives Impact, Detroit MI; Laurene Veeneman, Steelcase Library, Grand Valley State University MI

FINANCIAL AID, AWARDS and ACTIVITIES

Financial Aid

Students are invited to inquire about special assistantships and scholarships, as well as general financial aid. Contact the Library and Information Science Program office, and/or the University Office of Scholarships and Financial Aid, Welcome Center (also see page 20).

Assistantships and Library Employment Opportunities

The University Libraries offer employment opportunities to Library and Information Science (LIS) students. These positions provide students with an excellent opportunity to gain practical skills while supplementing their income. Students are encouraged to take advantage of these learning opportunities. Assignments involve relevant work experience at the pre-professional level in a number of areas within the University Library System. These include the Purdy/Kresge Library (for business, education, humanities, and social sciences), the Science and Engineering Library, the Vera Shiffman Medical Library, the Arthur Neef Law Library, and the David Adamany Undergraduate Library.

Student Assistants assist LIS faculty in a variety of administrative duties and may be called upon to help in a faculty member's research. Student assistants are paid an hourly rate.

In addition to these WSU placements, several area libraries offer paid and valuable pre-professional experiences. Part-time employment is also available in other institutions in the metropolitan Detroit and surrounding areas. For information on current opportunities, contact the Library and Information Science Program office.

Placement Services

Library and information science students may use the University Career Planning and Placement Services. In addition, the Library and Information Science Program maintains an extensive listing of currently available positions in all types of libraries and information centers throughout the United States and sponsors an annual job fair providing on-campus interviews with prospective employers.

Activities

Student Organization of the Library and Information Science Program: recognized by the University as the organization of students in the Library and Information Science Program. Students enrolled in the Program automatically become members of the Organization. Meetings are held throughout the academic year.

American Library Association—Student Chapter: Chartered by the ALA in 1988, the Chapter sponsors professional activities, promotes professionalism, and is open to all student ALA members.

American Society for Information Science and Technology — Student Chapter: Chartered by ASIS&T, the Chapter sponsors meetings and events throughout the year which promote the organization's goals concerning information technology and its transfer. Membership is interdisciplinary and is open to all student ASIS&T members.

Society of American Archivists—Student Chapter: Chartered by the Society of American Archivists in 1996, the chapter serves as a means of introducing and integrating new archivists into the profession; to engage in professional activities; to promote communication among student members of the Society; to develop leaders of tomor-
row's archival profession; and to attract new members into the Society.

*Special Libraries Association — Student Group* Chartered by the SLA in 1989, the Group promotes professionalism, sponsors professional activities in special librarianship, and is open to all student SLA members.

*Library and Information Science Alumni Association:* Library and Information Science graduates have established the Library and Information Science Alumni Association, which is active at the local level. Meetings are held frequently throughout the year covering a broad range of library interests, including public, school, academic and special libraries. Alumni work with the Library and Information Science Program to sponsor alumni gatherings at professional conferences. LISAA sponsors an annual job search workshop.

**LIBRARY and INFORMATION SCIENCE COURSES (LIS)**

The following courses, numbered 0900-6999, are offered for undergraduate credit and are available to undergraduates with junior- or senior-level standing. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 6000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

6010  *Introduction to the Information Profession. Cr. 3*

The development and place of libraries in society; objectives, functions of and trends in major types of libraries. Core course. (T)

6080  *Information Technology. Cr. 3*

Storage and retrieval problems as approached by conventional and nonconventional methods. Computer applications in libraries. Core course. (T)

6120  *Access to Information. Cr. 3*

Reference function of the library including print and electronic reference sources; development of interpersonal communication skills to increase effectiveness in response to patrons' information needs; effective search strategies for all types of reference. Core course. (T)

6210  *Organization of Knowledge. Cr. 3*

Characteristics of recorded knowledge; identification and description of recorded information; principles of physical description, authority control, and subject access; creation of catalogs and databases. Core course. Material fee as indicated in the Schedule of Classes. (T)

6350  *(I T 6110) Foundations of Instructional Systems Design. Cr. 4*

Alternative systems models of instructional design; basic design principles, methods and techniques of pre-design analysis; instructional strategy selection and sequencing. (T)

6360  *(I T 5110) Technology Applications in Education and Training. Cr. 3*

Technological applications to education, training, and instruction within educational, industrial, and human services settings. Students examine, develop, and/or evaluate unique instructional programs. For educators and non-educators interested in exploring technological applications in education. (Y)

6370  *(I T 5120) Producing Technology-Based Instructional Materials. Cr. 2-3*

Design and development of instructional media and materials for use in educational, industrial, and/or human service programs; development of computer-generated instructional materials. (Y)

6510  *(RLL 7720) Current Literature for Children: PS-Grade 3. Cr. 3*

Intensive examination of books appropriate for preprimary and primary school children. Analysis of the literary and extraliterary factors that affect the young child's experiences with fiction and nonfiction. (F,S)
6520  (RLL 7740) Current Literature for Children: Grades 4-8. Cr. 3
Intensive examination of books appropriate for children in grades four through eight. Analysis of literary and extraliterary factors affecting the older child’s experiences with fiction and nonfiction. (W,S)

6530  (EED 6310) Young Adult Literature. Cr. 3
Standards for evaluating adolescent literature. Selection of literature for individual pupils in relation to interest and reading ability. Use of classroom collections. Techniques for helping pupils read poetry, drama, and fiction. (Y)

6550  (RLL 7780) Storytelling. Cr. 3
Prereq: LIS 6510. Selection of appropriate literature and materials for storytelling; guided practice in selection and presentation of literature for oral communication by reading aloud and storytelling. (I)

6780  Records Management. Cr. 3
Management of information, including records creation, records inventory and appraisal, retention/disposition scheduling, filing systems, maintenance of inactive records, micrographics, vital records protection, and electronic impact on records management. (Y)
The primary mission of the School of Medicine is to provide the Michigan community with medical and biotechnical resources, in the form of scientific knowledge and trained professionals, so as to improve the general health of the community.

The School offers educational programs leading to the following degrees: Doctor of Medicine, Doctor of Philosophy, Master of Science, Master of Arts, and Bachelor of Science. Graduate education in clinical fields, post-doctoral study and continuing medical education programs are also offered within the School. Two hundred fifty-six students are admitted annually to the M.D. program and approximately three hundred fifty students are enrolled in Ph.D. or Master’s degree study in twenty program areas, predominantly in the basic medical sciences. More than nine hundred students are post-graduate trainees as medical residents, post-doctoral fellows, or fellows in twenty-nine different clinical research programs. A single baccalaureate degree in radiation therapy technology is offered in the Department of Radiation Oncology.

Continuing education programs, seminars and colloquiaums serve the faculty and students of the School as well as professionals throughout the community as a resource for current and ongoing developments in the health sciences. In addition to degree programs, the School offers courses in many basic medical science disciplines which are appropriate for students in other colleges and schools of the University. Non-degree enrollment in basic science courses at the graduate level is permitted on a limited basis for qualified students.

Research focusing on human health is the foundation of the activities in the School of Medicine. Fundamental and applied research in biomedical sciences, clinical specialties, and health care systems is directed by faculty of the School. Research programs at the School are supported by over 100 million dollars annually through research grants, contracts and gifts. Members of the faculty serve on scientific boards, panels, study groups and in professional leadership roles in health care regionally, nationally and internationally. The research facilities of the School are modern, well-equipped and continually growing with the pace of current technological advances.

The clinical services provided by the faculty, post-graduates and students in the School are rendered predominantly through the Detroit Medical Center institutions. Through a master affiliation between the Detroit Medical Center (DMC) and Wayne State University, the DMC serves as the University’s academic health center. The DMC owns and operates seven hospitals, two nursing centers, and more than 100 outpatient facilities throughout southeastern Michigan, and is affiliated with the Barbara Ann Karmanos Cancer Institute. The chairpersons of our departments or their designees serve as heads of departments or divisions within each of the Medical Center hospitals. In addition, the School conducts clinical training for its students through a consortium of teaching hospitals located throughout metropolitan Detroit. The School also perceives a responsibility to the population of the Detroit metropolitan region as a whole, both as an educational institution and as a supplier of physicians, who are highly-skilled providers of medical care.

History of the School

The School of Medicine of Wayne State University has been operating and granting degrees as a college of medicine since 1868. Originally called The Detroit Medical College, it was founded by Detroit native Dr. Theodore A. McGraw.

In 1879, a second medical college, the Michigan College of Medicine, opened in Detroit. The two colleges soon united to become the Detroit College of Medicine. In 1919, the Detroit College of Medicine and Surgery, as it was known then, became an official part of the Detroit Board of Education and thus an important unit in the rapidly developing Colleges of the City of Detroit. In 1933, the name of the Colleges of the City of Detroit changed to Wayne University in honor of the American Revolutionary War hero, General Anthony Wayne. Wayne University became a State institution in 1956.

The School of Medicine entered its second century with a period of substantial growth and the creation of a totally new campus in the Detroit Medical Center. With the opening of the Gordon H. Scott Hall of Basic Medical Sciences in 1971, the size of the entering class increased to 236 students, making the Wayne State University School of Medicine the largest single campus medical school in the country, and the fourth largest overall.

Wayne State University

Medical School Facilities

Gordon H. Scott Hall is the main education building for the School of Medicine. It provides facilities for pre-clinical and basic science education, basic science departments, research laboratories for basic and clinical programs and the administrative offices of the School.

The Helen Vera Prentis Lande Medical Research Building houses research laboratories for clinical and basic science faculty.

The Vera P. Shiftman Medical Library, located adjacent to Scott Hall, houses a full medical reference library, as well as computer instruction facilities.

The Louis M. Elliman Clinical Research Building provides research laboratories, experimental surgical suites and specialized research facilities for the Departments of Internal Medicine, Surgery, Pediatrics, and Neurology.

The C. S. Mott Center for Human Growth and Development provides research space for programs in human reproduction, growth and development.

The Hudson-Webber Cancer Research Center is the translational facility research flagship for WSU cancer research in partnership with the Barbara Ann Karmanos Cancer Institute.

The School of Medicine is closely affiliated with the John D. Dingell Veterans’ Administration Medical Center and the Henry Ford Health System. In addition to training at the DMC, medical students may train at eighteen other medical facilities as well as hundreds of local physician’s offices.

The School is an active partner in nationally- and regionally-recognized research programs and has defined several areas of noted increased to 236 students, making the Wayne State University School of Medicine the largest single campus medical school in the country, and the fourth largest overall.

Detroit Medical Center Facilities

The Detroit Medical Center includes:

Children’s Hospital of Michigan, which specializes in medical research and treatment for infants and children. It is particularly noted for its pediatric hematology, oncology, cardiac surgery, and the treatment of renal disease; and houses a major poison control center;

Detroit Receiving Hospital and University Health Center, which specializes in the treatment of adult emergency/trauma cases, and includes special facilities for the care of emergency psychiatry, burn and spinal injuries; The University Health Center, connected to the hospital, is one of the country’s largest multidisciplinary outpatient facilities, with twelve primary care service groups and more than twenty-five medical specialty services for ambulatory care;

Sinai-Grace Hospital, a full-service hospital which offers a wide range of outpatient services;

Harper Hospital, which specializes in oncology, cardiology, general surgery and a number of additional surgical specialties and subspecialties;
Huron Valley-Sinai Hospital, located in a northern suburb, is also operated by the DMC, and provides community hospital inpatient and outpatient services; Hutzel Hospital, which includes among its areas of excellence: obstetrics, gynecology, gynecologic oncology, ophthalmology, neonatology, perinatology, and orthopedic surgery; Rehabilitation Institute of Michigan, which uses an interdisciplinary approach to help physically disabled persons reach their maximum level of independence; Kresge Eye Institute of Wayne State University, housed in Hutzel Hospital, which is a major center for research and treatment of eye diseases; Barbara Ann Karmanos Cancer Institute, which provides comprehensive cancer prevention, screening, diagnostics, treatment and supportive care to more than 10,000 new patients annually, and is one of only thirty-two federally-designated comprehensive cancer centers in the country.

Gershenson Radiation Oncology Center, which provides technologically advanced radiation oncology services for all Medical Center facilities. Unique services include neutron therapy, Gamma Knife procedures, and total body irradiation.

Shiffman Medical Library — School of Medicine Learning Resource Centers
Director: Ellen B. Marks
Assistant Director: Sandra Martin
Website: http://www.lib.wayne.edu/shiffman/

Hours:
Monday - Thursday: 8:00 a.m. - 11:00 p.m.
Friday: 8:00 a.m. - 9:00 p.m.
Saturday: 9:00 a.m. - 5:00 p.m.
Sunday: 12:00 n. - 11:00 p.m.

The Shiffman Medical Library is the health sciences library for Wayne State University, including serving the School of Medicine, the Eugene Applebaum College of Pharmacy and Health Sciences, and the Detroit Medical Center. For services for undergraduate users of the medical library, see ‘Additional University Services’ in the General Information section of this Bulletin. All WSU students are welcome at this library, where many types of health information and assistance may be obtained; Internet-connected general computers are available to all. The WSU OneCard can be used to enter the library automatically. All persons are welcome to use the library for library research, health information seeking, or educational purposes. Online and off-site access to the digital information resources of the Medical Library and all University libraries require the University AccessID. Call the Library Help Desk (313-577-1094) or consult the School Web page for instructions for accessing electronic biomedical information.

The School of Medicine and the Shiffman Medical Library offer the Medical Students’ Study, which provides a twenty-four-hour, seven day per week quiet study location. Two learning resource centers with sixty-five networked computers and an array of computer-based instructional software are available in support of School curricula. A student advisory group solicits ideas and advice. Faculty place course material on reserve at the Library’s circulation desk, which also maintains copies of textbooks, software manuals, and media.

Office of Student Affairs
Assistant Dean for Student Affairs: Jane R. Thomas, Ph.D.
This office is under the supervision of an assistant dean. It includes: academic, career, and personal counseling services; financial aid counseling; tutorial services; a special study skills consultation service; and support for student government and organization activities. The staff is committed to assisting students in every way possible as the students work toward M.D. degrees. These programs are part of the School’s commitment to provide each matriculant with support services so that the rigorous educational program can be presented within as comfortable an environment as possible.

SERVICES
Health Services: Acute health care for medical students is available in the Primary Care Center of the University Health Center. Counseling: Appointments for academic, personal and career counseling can be arranged through the Office of Student Affairs. Academic Resources Counseling: A specialist in techniques designed for the medical curriculum is available to all students seeking to improve and/or enhance their academic performance. Individual tutoring services are available as well as group review sessions.

Development and Alumni Affairs
Office: 101 E. Alexandrine
Telephone: 313-577-1495; Alumni Telephone: 313-577-3587
Executive Director of Development and Alumni Affairs: David Lepper
Manager of Alumni Affairs: Lori H. Robitaille
The Development Office maintains a staff to support all aspects of fund raising from private sources. It is dedicated to helping meet current challenges and prepare for future opportunities in keeping with the spirit and traditions established by the School’s founders over a century ago.

The Development Office’s fund-raising programs are based on the premise that the personal and financial involvement of its alumni and friends enhance the quality and reputation of this School. Only through a broad base of volunteer assistance can the School of Medicine secure enough private gifts to help supplement state assistance, tuition, and other means of support essential to providing an outstanding program of education and research.

Each year the W.S.U. Medical Alumni Association conducts a Clinic Day and Alumni Reunion where discussions by leading scientists around the country. Alumni and former residents (now numbering over 11,400, and house officers numbering 5,200) and their spouses are encouraged to maintain close ties with the School. The alumni office carries out the decisions and plans made by the W.S.U. Medical Alumni Association Board of Governors.

Office of Public Affairs and Publications
Office: 101 E. Alexandrine
Director: Kathleen M. Wedemire
The Office of Public Affairs and Publications is responsible for the communications and public relations programs for the School. The Office publishes alumni and faculty newsletters, a research magazine, an annual report and a variety of collateral publications. In addition, the Office conducts media relations and promotional activities and serves as an information resource regarding faculty, student and alumni achievement related to research, clinical care, and medical education.
UNDERGRADUATE DEGREE
BACHELOR OF SCIENCE in Radiation Therapy Technology

GRADUATE DEGREES AND CERTIFICATES
There are two major types of academic programs in the School of Medicine — those leading to the M.D. degree and postgraduate medical education; and those programs in the basic medical sciences which offer Master of Science or Doctor of Philosophy degrees.

*DOCTOR OF MEDICINE

*DOCTOR OF PHILOSOPHY with major in:
- Anatomy and Cell Biology
- Biochemistry and Molecular Biology
- Cancer Biology
- Cellular and Clinical Neurobiology
- Immunology and Microbiology
- Medical Physics
- Molecular Biology and Genetics
- Pathology
- Pharmacology
- Physiology

*MASTER OF SCIENCE with major in:
- Anatomy and Cell Biology
- Biochemistry and Molecular Biology
- Cancer Biology
- Community Health Services
- Genetic Counseling
- Immunology and Microbiology
- Molecular Biology and Genetics
- Pharmacology
- Physiology
- Psychiatry
- Radiological Physics
- Rehabilitation Sciences

*MASTER OF SCIENCE in Basic Medical Sciences

*MASTER OF SCIENCE in Medical Research

*GRADUATE CERTIFICATE in Community Health Services Research and Evaluation

* For specific requirements, see the Wayne State University Graduate Bulletin.
RADIATION THERAPY TECHNOLOGY

Office: First Level, University Health Center, Detroit Medical Center; 313-577-1137
Program Director: Diane K. Chadwell
Chairperson, Radiation Oncology Department: Jeffrey D. Forman
Assistant Professor
Diane K. Chadwell
Senior Lecturer
Adam F. Kempa
Adjunct Assistant Professor
Rosann Keller
Cooperating Faculty
Merlin E. Ekstrom, Colin G. Orton
Medical Adviser
Kenneth J. Levin

Undergraduate Degree Program

BACHELOR OF SCIENCE in Radiation Therapy Technology

Radiation therapy technology is a health care discipline which utilizes ionizing radiation for the treatment of malignant diseases. This field requires a basic understanding of and interest in science, especially mathematics and physics, as well as emotional maturity and a desire to assist in the management of patient care. A radiation therapist has the unique opportunity to blend knowledge and skills of mathematics, medical science and psychology in his or her everyday work. The therapist comes to know patients over a period of several months and becomes important to their health care; this continued contact with the patient is the source of much satisfaction and professional pride.

The Bachelor of Science Degree program in Radiation Therapy Technology at Wayne State University is designed to prepare students for the technical, theoretical and psychological aspects of this career.

Radiation therapists are typically employed in hospitals, clinics, educational institutions, and commercial equipment corporations as staff therapists, clinical supervisors, administrators, educators and technical marketing personnel. A radiation therapist is able to:

—Operate sophisticated radiation equipment to deliver a planned course of radiation therapy;
—Assist the physicist in quality assurance and in treatment planning procedures, and in the calibration of equipment;
—Observe the clinical progress of the patient undergoing radiation therapy, and recognize when a patient’s condition requires the attention of a physician; and
—Assist in providing psychosocial support for patients who are dealing with the stress of their illness.

Bachelor of Science in Radiation Therapy Technology

The Bachelor of Science in radiation therapy technology is a four-year degree program consisting of two years of preprofessional courses and two years of professional courses. The program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 900, Chicago IL 60606-2901; (312) 704-5300. The program complies with the professional curriculum of the American Society of Radiologic Technologists. Upon completion of the program, the student receives a Bachelor of Science Degree in Radiation Therapy Technology and is eligible to take the national certification examination administered by The American Registry of Radiologic Technologists.

Admission to Preprofessional Program

The first two years (preprofessional program) are taken in the College of Science, the admission requirements of which are satisfied by admission to the University; see page 15. Application forms are available from the Office of Admissions, University Welcome Center. Students should consult with the University Advising Center, 1600 Adanany Library, regarding course selection. Students are urged to seek additional career advisement from the Radiation Therapy Technology faculty early in their preprofessional program.

Recommended High School Preparation: Students interested in a career in radiation therapy technology should take as many of the following high school courses as possible: biology, chemistry, mathematics, physics, computer science, typing, speech and composition.

PREPROFESSIONAL PROGRAM

Each of the following required preprofessional courses (or its equivalent) must be completed with a minimum grade of 'C' (2.00).

First and Second Years

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1500</td>
<td>Basic Life Diversity: Cr. 4</td>
</tr>
<tr>
<td>BIO 1510</td>
<td>Basic Life Mechanisms: Cr. 4</td>
</tr>
<tr>
<td>BIO 2870</td>
<td>Anatomy and Physiology: Cr. 5</td>
</tr>
<tr>
<td>CHM 1020</td>
<td>General Chemistry I: Cr. 4</td>
</tr>
<tr>
<td>ENG 1020</td>
<td>Introductory College Writing: Cr. 4</td>
</tr>
<tr>
<td>ENG 3010</td>
<td>Intermediate Writing: Cr. 3</td>
</tr>
<tr>
<td>MAT 1800</td>
<td>Elementary Functions: Cr. 4</td>
</tr>
<tr>
<td>PHY 2130</td>
<td>General Physics: Cr. 3</td>
</tr>
<tr>
<td>PHY 2131</td>
<td>General Physics Laboratory: Cr. 1</td>
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<tr>
<td>PHY 2140</td>
<td>General Physics: Cr. 3</td>
</tr>
<tr>
<td>PHY 2141</td>
<td>General Physics Laboratory: Cr. 1</td>
</tr>
<tr>
<td>PSY 1010</td>
<td>Introductory Psychology: Cr. 3</td>
</tr>
<tr>
<td>PSY 2300</td>
<td>Psychology of Everyday Living: Cr. 4</td>
</tr>
<tr>
<td>SPB 1010</td>
<td>Oral Communication: Basic Speech: Cr. 3</td>
</tr>
<tr>
<td>UGE 1000</td>
<td>Information Power: Cr. 1</td>
</tr>
</tbody>
</table>

1. American Society & Institutions (AI) Elective 1; Cr. 3
2. Foreign Culture (FC) Elective 1 (by Competency Exam or course): Cr. 3
3. Historical Studies (HS) Elective 1: Cr. 3
4. Humanities (VP,PL) Electives 1: Cr. 6
5. Computer Literacy (CL) Competency 1 by Competency Exam or course: Cr. 3
6. Critical Thinking (CT) Competency 1 by Competency Exam or course: Cr. 3
7. Total credits: 59

Admission to Professional Program

Admission to the professional program requires completion of the above preprofessional course requirements and satisfaction of specific admission requirements listed below. The application deadline is

1. General Education Group Requirements.
On or about April 1 for matriculation into the professional program for the subsequent fall term.

Students should contact the University Advising Center (313-577-2680) prior to each fall term to obtain an updated list of preprofessional course and program admission requirements. Career advisement is provided by the program faculty: a meeting with a faculty member is an admission requirement. Prospective students are urged to contact the program as early as possible in their university studies (313-577-1137).

Since applicants who are admitted will eventually be working as a member of a health care team, the admissions committee evaluates candidates based on their personal qualities as well as their academic achievement. Therefore, throughout the interview and completion of other application requirements, such criteria as a student’s maturity, motivation, knowledge of the profession, interpersonal skills, personal integrity, and empathy for others is evaluated.

Professional Program Admission Requirements: The student wishing to apply to the professional program must comply with the following admission requirements:

1. Completion of all preprofessional courses (or their equivalents) by the fall term in which admittance is desired. See Preprofessional Program, above.

2. Hold a combined cumulative grade point average of 2.50 or above (‘A’=4.00) for all college-level work at all institutions attended.

3. Completion of a professional program application form with a copy of the student’s Wayne State transcript attached. Mail completed form and Wayne State transcript to: Program Director, Radiation Therapy Technology, Department of Radiation Oncology, First Level, University Health Center, Detroit Medical Center, Wayne State University, Detroit MI 48201.

4. Submission of official transcripts from all college institutions attended (other than Wayne State).

5. Meeting with a program faculty member to discuss the career of radiation therapy technology. This visit should be completed as early in the preprofessional program as possible. Appointments are made by calling 313-577-1137.

6. Completion of two clinical visits to affiliate institutions for the program. Appointments are made by calling 313-577-1137.

7. Submission of two reference forms (included in the application packet available from University Advising Center or from the Program): one from an employer/supervisor and one from a college professor/adviser.

8. Satisfaction of the University Requirements in English and Mathematics Proficiency (documentation is required).

The information requested in requirements 3, 4, 6, 7, and 8, above, should be submitted to the Program Director, Radiation Therapy Technology, Department of Radiation Oncology, First Level, University Health Center, Detroit Medical Center, Wayne State University, Detroit MI 48201.

Application packets, including an application form, reference forms, and current procedural guidelines, are available from University Advising or the Radiation Therapy Technology Program.

Application Deadline: The deadline for applications is on or about April 1. Applications which are incomplete by the deadline or are submitted after that date will be considered only with the approval of the Program Director. Prospective students are urged to submit applications as early as possible after the fall term. Specific directions for submitting the various application materials are indicated on the respective forms.

Application Review: All applications will be reviewed for completeness. The Admission Committee will interview all qualified applicants with completed applications submitted by the deadline date. A number of criteria will be evaluated, including academic achievement and personal qualities. Admission interviews are typically conducted in May of each year. The Radiation Therapy Technology Program typically notifies each applicant of the final admission decision in June.

Degree Requirements

Candidates for the degree Bachelor of Science in Radiation Technology Therapy must complete a minimum of 124 credits, plus sufficient credits to fulfill the University General Education Requirements not satisfied by either required courses or the student’s choice of electives. The total course work will be distributed between two years of preprofessional course work (see above) and the two-year professional program as outlined below. Courses in the professional program are taken in the School of Medicine. Enrollment requires full-time student status for six consecutive terms (twenty-four months), during which time students take didactic and clinical courses. The clinical program includes approximately twenty hours per week of clinical education at multiple affiliate institutions in the greater metropolitan Detroit area. Such institutions include urban and suburban hospitals.

A required elective in the senior year encourages a student to take a course in the areas of management, education, humanities or social studies. The course selected may be used to fulfill the social science requirement of the University General Education Requirements.

While most required courses are scheduled during usual daytime hours, students are required to attend some courses or individual class sessions in early evening.

Professional courses and/or professional program admission requirements are subject to change without notification. The curriculum may change because of professional practice requirements which may be separate from academic requirements. It is the student’s responsibility to obtain updated information from the Radiation Therapy Technology Program, Department of Radiation Oncology, Wayne State University; telephone: 313-577-1137; Fax: 313-577-0908.

PROFESSIONAL PROGRAM

Third Year

NUR 2030 -- Pathophysiology Related to Nursing Practice: Cr. 2
R T 3000 -- Concepts of Clinical Care: Cr. 3
R T 3010 -- Introductory Radiation Physics: Cr. 3
R T 3020 -- Clinical Radiation Physics: Cr. 3
R T 3110 -- Clinical Aspects of Radiation Therapy: Cr. 3
R T 3140 -- Topographical Anatomy and Medical Imaging: Cr. 3
R T 3180 -- Design & Construction of Treatment Accessories: Cr. 1
R T 3200 -- Therapeutic Interactions in Oncology Care: Cr. 2
R T 3310 -- Clinical Practicum I: Cr. 3
R T 3320 -- Clinical Practicum II: Cr. 4
R T 3330 -- Clinical Practicum III: Cr. 4
Total credits: 31

Fourth Year

R T 4110 -- Clinical Radiation Oncology: Cr. 4
R T 4120 -- Basic Clinical Dosimetry: Cr. 3
R T 4140 -- Oncologic Pathology: Cr. 2
R T 4150 -- Radiobiology of Radiation Oncology: Cr. 2
R T 4220 -- Radionuclide Physics: Cr. 3
R T 4240 -- Radiation Therapy Technology Seminar: Cr. 3
R T 4300 -- Quality Assurance: Cr. 2
R T 4350 -- Clinical Practicum IV: Cr. 4
R T 4360 -- (WI) Clinical Practicum V: Cr. 4
R T 4370 -- Clinical Practicum VI: Cr. 4
Elective: Cr. 3
Total credits: 34

Scholarship: Students in the professional program are subject to high academic and professional standards. A grade of ‘C’ (2.00) or above is required in each professional course, and the student must
maintain a **term** grade point average of 2.50 throughout the program. A grade of 'C-minus' (1.67) in a professional course indicates unsatisfactory performance; repetition of the course is required, and review by the Academic Committee will occur. A second grade of 'C-minus' or below, or a single grade of 'D' or less (1.00 or less) will result in immediate dismissal from the professional program. Academic standards and program probation policies are subject to change. Academic standards and policies are published annually; copies are available upon request from the Radiation Therapy Technology Program.

**Liability Insurance:** Each student is required to have professional liability insurance during the entire length of the professional program. Neither the clinical affiliates, nor Wayne State University, assume liability for student actions during clinical education.

**University General Education Requirements:** In addition to the current course and academic requirements outlined by the Program, the student must complete the University General Education Requirements in order to receive a Bachelor of Science degree in Radiation Therapy Technology. Electives in the preprofessional or professional program may be used to complete these additional course requirements.

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**RADIATION THERAPY TECHNOLOGY COURSES (R T)**

The following courses, numbered 0900-6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 481.

**3000  Concepts of Clinical Care. Cr. 3**

Procedures and ethics related to the care and examination of the radiation oncology patient. Topics include: basic pharmacology, drug administration, pain management, treatment side effects and their management. Material fee indicated in the Schedule of Classes. (F)

**3010  Introductory Radiation Physics. Cr. 3**

Basic introduction of radiation physics including the x-ray machine, physical principles and circuitry; principles of mathematics. (F)

**3020  Clinical Radiation Physics. Cr. 3**

Prereq: R T 3010. Principles of radiation exposure; radiation producing and measuring devices; clinical application of radiation physics. (W)

**3110  Clinical Aspects of Radiation Therapy. Cr. 3**

Basic concepts in oncology and radiation therapy technology. Topics include: cancer statistics, neoplasia, and principles of treatment and dosage. (F)

**3140  Topographic Anatomy and Medical Imaging. Cr. 3**

Procedures for imaging human structure and their relevance to radiation therapy; topographic and cross sectional anatomy, identification of anatomic structures as demonstrated through various imaging modalities and human anatomy lab sessions; fundamentals of radiographic exposure techniques and film processing. Material fee as indicated in the Schedule of Classes. (W)

**3180  Design and Construction of Treatment Accessories. Cr. 1**

Theory and practical experience with design and construction of radiation shielding devices and various treatment accessories; related geometry, magnification devices, use of hot-wire cutter, casting techniques, bolus construction and immobilization devices. Material fee as indicated in the Schedule of Classes. (S)

**3200  Therapeutic Interactions in Oncology Care. Cr. 2**

Open only to radiation therapy technology students. Issues related to professional interaction with oncology patients. Impact of cancer diagnosis on patient and family; subsequent role of radiation therapist. Approaches to effective communication. Material fee as indicated in the Schedule of Classes. (S)

**3310  Clinical Practicum I. Cr. 3**

Introduction to clinical radiation therapy. Closely supervised patient-related activities. Emphasis on development of interpersonal communication skills in the clinical setting; medical terminology. (F)

**3320  Clinical Practicum II. Cr. 4**

Prereq: R T 3310. Closely supervised practice in the delivery of prescribed doses of radiation utilizing common radiation equipment. Observation and performance of clinical care procedures; Development of communication skills in patient/therapist relationships. Correlation of medical imaging techniques to diagnostic workup and treatment planning. Completion of clinical competency requirements. (W)

**3330  Clinical Practicum III. Cr. 4**

Prereq: R T 3320. Expanded supervised practice in the delivery of radiation therapy treatments. Submission of essay on radiation oncology topic. Completion of clinical competency requirements. (S)

**4110  Clinical Radiation Oncology. Cr. 4**

General presentation of malignant conditions, their etiology and methods of treatment; specific radiation treatment methodology including technical parameters of field size and direction, dosage, blocking, and patient positioning. Material fee as indicated in the Schedule of Classes. (F)

**4120  Basic Clinical Dosimetry. Cr. 3**

Prereq: R T 4110. Basic concepts of clinical dosimetry and treatment planning; various external beam techniques, depth dose data, and summation of isodose curves. Material fee as indicated in the Schedule of Classes. (W)

**4140  Oncologic Pathology. Cr. 2**

Basic principles of neoplasia, including types of growth, causative factors, biological behavior, and significance of staging procedures. Pathology of radiation injury. Material fee as indicated in the Schedule of Classes. (F)

**4150  Radiobiology of Radiation Oncology. Cr. 2**

Biological effects of ionizing radiation on living tissue. Cell and tissue radiosensitivity; radiation syndromes and related effects. Basic radiobiological principles of radiation oncology and radiation protection. (W)

**4220  Radionuclide Physics. Cr. 3**

Prereq: R T 3020. Natural radioactivity; isotopes and nuclear structure; techniques of radiation measurement. The clinical use of radionuclides. Radiation safety. (F)

**4240  Radiation Therapy Technology Seminar. Cr. 3**

Open only to radiation therapy technology students. Issues relevant to the practice and profession of radiation therapy technology explored through group discussion and case studies. Topics include: psychosocial, cultural, economic, physical, and educational factors which affect the patient; professional, administrative, legal, and bioethical issues which influence professional practice. Material fee as indicated in the Schedule of Classes. (W)

**4300  Quality Assurance. Cr. 2**

Open only to radiation therapy technology students. Principles and application of a comprehensive quality assurance program, addressing general clinical and physics factors. Contents include: tasks to be performed, with their frequency and acceptable limits; model implementation program; and legal implications. Lecture and laboratory settings. Material fee as indicated in the Schedule of Classes. (S)

**4350  Clinical Practicum IV. Cr. 4**

Prereq: R T 3330. Continued supervised practice in a wide spectrum of clinical activities. Submission of a critical bibliography from current literature of radiation therapy, cancer management and related areas. Completion of clinical competency requirements. (F)
4360  (WI) Clinical Practicum V. Cr. 4
Prereq: R T 4350. Continued clinical practice under limited supervision. Submission of essay on radiation oncology topic. Completion of clinical competency requirements. (W)

4370  Clinical Practicum VI. Cr. 4
Prereq: R T 4360. Continued clinical practice under minimal supervision. Practice of procedures related to the development of various treatment plans and methods of treatment planning. Submission of report on quality assurance activities. Completion of clinical competency requirements. Material fee as indicated in the Schedule of Classes. (S)

DOCTOR OF MEDICINE

Educational Goals
Our goals are for all graduates to be:
—knowledgeable in the basic science and clinical aspects of medicine and in the application of these principles;
—committed to the pursuit of excellence in all of their professional activities;
—well-grounded in the humanistic aspects of health care;
—well-prepared for future training for careers in patient care, health service, teaching or research;
—skilled in self-education;
—committed to continuing education;
—aware of their limitations throughout their careers;
—equipped to understand future developments, and to be effective problem-solvers in patient care, health care delivery systems, and other fields of medicine.

Admission and Registration — M.D.
Assistant Dean for Admissions: Silas Norman, Jr., M.D.
The School of Medicine currently accepts 256 students for its entering class. The students are selected from a large number of applicants who apply through the American Medical College Application Service (AMCAS).

Selection Factors
The Committee on Admissions will select those applicants who, in its judgment, will make the best students and physicians. Consideration is given to the entire record, g.p.a., Medical College Admission Test (MCAT) scores, recommendations, and interview results as these reflect the applicant’s personality, maturity, character, and suitability for medicine. Additionally, the Committee regards as desirable certain health care experiences such as volunteering or working in hospitals, hospices, nursing homes, or doctor’s offices. The Committee also values experience in biomedical laboratory research. Following an initial screening process, students with competitive applications are selected to complete a secondary application. Special encouragement is given to candidates from medically underserved areas in Michigan.

As a state-supported school, the institution must give preference to Michigan residents; however, out-of-state applicants are encouraged to apply. An applicant’s residency is determined by University regulations. Students whose educational backgrounds include work outside the United States must have completed two years of course work at a U.S. or Canadian college or university. Canadian citizens are considered non-resident for both admissions and tuition purposes. Interviews are required but are scheduled only with those applicants who are given serious consideration. The Committee on Admissions meets on a weekly basis to evaluate candidates. Offers of acceptance will be made on four occasions during the application cycle. Students are urged to apply by November 1.

Requirements for Entrance
The Medical College Admission Test (MCAT) is required, in addition to a baccalaureate degree or its equivalent; however, the Committee on Admissions is prepared to review the records of third-year students with unusual academic attainment. The MCAT should be taken during the year of application, preferably in the spring. Required courses for medical school admission are:

General biology or zoology (with lab): 1 year
Inorganic chemistry (with lab): 1 year
Organic chemistry (with lab): 1 year
General physics (with lab): 1 year
English: 1 year

Besides a strong preparation in the basic sciences, a broad educational background in a liberal-arts oriented program is desirable. Applicants are encouraged to select subjects that will contribute substantially to a broad cultural background.

Curriculum
The School of Medicine curriculum employs a combination of traditional and newer approaches to the teaching of medical students. It uses traditional lectures, small group and panel discussions, computer-assisted instruction, and multimedia in its teaching program.

Year 1 begins with an introductory clinical course which runs through all four years, including introduction to the patient, human sexuality, medical interviewing, physical diagnosis, public health and prevention, and evidence-based medicine. Year 1 is organized around the disciplines of structure (anatomy, histology, embryology, and radiology), and function (biochemistry, physiology, genetics, and nutrition), and ends with an integrated neuroscience course.

Year 2 is a completely integrated year focusing on pathophysiology, including immunology/microbiology, and pharmacology.

Year 3 is a series of clinical clerkships including medicine, surgery, pediatrics, family medicine, psychiatry, neurology, and obstetrics/gynecology. During year 3 all students have a six-month continuity clerkship.

Year 4 is an elective year including emergency medicine, a subinternship, and an ambulatory block month.

Application and Acceptance Policies
The School of Medicine adheres to the acceptance procedures of the Association of American Medical Colleges, including the ‘Early Decision Plan.’ Admission procedures of this School are:
1. AMCAS application must be filed between June 1 and December 15 of the year preceding anticipated matriculation.
2. Applicants must respond to acceptance offer within three weeks of the offer.
3. Payment of a $50.00 deposit is required upon acceptance by the student of a place in the first-year class. The deposit will be credited toward the initial tuition payment.

Admission with Advanced Standing
Students from LCME-approved medical schools may be admitted with advanced standing to the second and third years only, subject to the number of vacancies which may exist in the second and third years. Application for advanced standing should be made not later than July 15. The following requirements must be met:
1. An applicant must be matriculated as a student in an approved United States or Canadian medical school for a period of time equal to that spent by the class in which he/she seeks entrance and must have completed courses equivalent to those required of that class.
2. The applicant must file a completed application form and must present official transcripts from each school attended showing that he/she meets, in full, the entrance requirements for admission to this School.
3. The applicant must be a student in good standing at the medical school from which he/she is transferring. A letter of support from the dean of that school is required.
4. The applicant must take and pass the USMLE, Step I, for consideration to transfer with advanced standing into Year Three.

Minority Recruitment
Director: Julia M. Simmons, M.A.
This unit is responsible for assisting in maintaining a representative enrollment of minority students through a combination of advising, counseling, and academic programs for high school, college, and post-baccalaureate students. The High School Outreach Program is conducted in twenty-eight Detroit high schools and five suburban high schools, offering information and support to students interested in medical careers. At the undergraduate level, advising and counseling is available to premedical students through the minority premedical office. The Post Baccalaureate Program for disadvantaged students offers a one-year med-prep experience to a select group of qualified medical school applicants. The program guarantees admission to the School of Medicine for students who perform satisfactorily in the program. This unit is also responsible for the prematriculation program for minority students admitted to the medical school.
COLLEGE OF NURSING

DEAN: Barbara K. Redman
Foreword

The Wayne State University College of Nursing is regionally, nationally, and internationally recognized for educating graduate and undergraduate students as practitioners and scholars in the nursing profession. The College is committed to research and scholarly activity which contributes to the discipline of nursing and excels in the development, application, and dissemination of such knowledge to promote human health and well-being.

Nursing is an academic discipline and a profession. As a discipline, nursing develops knowledge concerning human beings, their care, health, and the environment. Concepts derived from such research order the discipline and profession of nursing as well as give identity to nursing practice and direct inquiry and theory development. As a profession, nursing creatively uses knowledge in response to the health care needs of society. Both of these functions are enhanced by the scholarly environment of the University and its multicultural urban setting as a context for professional nursing practice.

Consistent with this view of the nursing profession, the College supports the importance of liberal arts, humanities, and the sciences in nursing education. The faculty believes that programs designed for the preparation of nurses must be composed of the intellectual, social, cultural, and technical components of liberal and professional education that are available to students within an institution of higher learning. The faculty also affirms the necessity and value of clinical practice within a professional nursing program. Experience within a variety of clinical and vulnerable populations is one of the primary modes for the development of nursing practice competencies.

Learners from diverse backgrounds enter the College to begin or continue their education and thereby add to the richness of this learning environment. The faculty supports the right of students to question, challenge and debate within the context of inquiry as an essential ingredient to their development. Continuing evaluation on the part of the students and the faculty is essential to advancing nursing knowledge and sustaining the integrity of the program.

The faculty of the College of Nursing, as members of the academic community, recognizes that its professional functions extend beyond contributions to formal teaching. Research, practice, and community service are important expectations of the faculty. The faculty views as essential, academic freedom, shared governance, opportunity to develop knowledge, and responsibility to incorporate new knowledge into teaching and nursing practice. The faculty assumes responsibility for enhancing the image of the College of Nursing and the University locally, nationally, and internationally through various avenues including research, scholarship, practice, consultation, and participatory decision making.

Accreditation

The baccalaureate program is approved by the Michigan State Board of Nursing, and graduates are admitted to the licensing examination for professional nurses in the State of Michigan. The baccalaureate and master’s programs of the College are accredited by the National League of Nursing. In addition, the BSN and MSN programs have preliminary approval by the newly-established Commission for Collegiate Nursing Education.

Degree Programs

BACHELOR OF SCIENCE in Nursing

*MASTER OF SCIENCE in Nursing — with a clinical major in:
  - Adult Acute Care Nursing
    - Adult Critical Care Nursing Option
  - Adult Primary Care Nursing
    - Gerontological Nurse Practitioner Option
  - Psychiatric Mental Health Nurse Practitioner
  - Community Health Nursing
  - Advanced Nursing Practice with Women, Neonates and Children
    - School Nurse Practitioner

*GRADUATE CERTIFICATE PROGRAM in
  - Nursing Education
  - Transcultural Nursing

*DOCTOR OF PHILOSOPHY in Nursing

*For specific requirements, see the Wayne State University Graduate Bulletin.
ADMINISTRATION and FACULTY

Dean: Barbara Redman
Associate Dean, Academic and Clinical Affairs: Stephen Cavanagh
Associate Dean, Research: Mary Nies
Interim Assistant Dean, Adult Health: Helene Krouse
Assistant Dean, Family, Community, and Mental Health: Naomi Ervin
Interim Director, Office of Student Affairs: Janet Harden
Assistant to the Dean: Mercedes Wolfe
Administrative Manager: Betty Kosmas
Academic Staff: Lisa Fuller, Felicia Grace, Jane Helinski, Rosalind Reaves

Professors
Karen Aroian, Judith Floyd, Helene Krouse, Mary Nies, Marilyn Oermann, Barbara Pieper, Barbara Redman, Virginia Rice

Associate Professors
Nancy Artinian, Stephen Cavanagh, Jean Davis, Mary Denyes, Naomi Ervin, Ingvarda Hanson, Mary Jirovec, Linda Lewandowski, Tom Templin, Feleta Wilson

Assistant Professors
Sue Bell, Ramona Benkert, Joan Bickes, Ann Collins, Marie Draper Dykes, Judith Fry-McComish, Pat Jarosz, Morris Magnan, Michael Morgan, Daphne Nedd (clinical), Rosalind Peters, Stephanie Schim, Patricia Thornburg, April Vallerand, Jillon Vanderwal, Olivia Washington, Linda Weglicki

Clinical Instructors
Joanne Ashare, Heidi Bednarz, Esther Bennett, Suzanne Billingsley, Darlene Blair, Margaret Falahkee, Diane Featherston, Kathryn Keves-Foster, Kathleen Kowalewski, Kelli Miller, Barbara Moore, Linda Sikora, Catherine Sikorski, Susan Szcesny, Sue Webb

Lecturers
Judith Fouladbaksh, Janet Harden, Margie Miller, Barbara Williams

COLLEGE DIRECTORY

Dean: 112 Cohn; 577-4070
Associate Dean for Academic & Clinical Affairs: 230 Cohn 577-4138 and: 800-544-3890
Associate Dean for Research: 319 Cohn; 577-4135
Assistant Dean, Adult Health: 376 Cohn; 577-4144
Assistant Dean, Family, Community & Mental Health 242 Cohn; 577-4119
Office of Student Affairs: 10 Cohn; 577-4082 and 837-0847
Center for Health Research: 315 Cohn; 577-4134
Administrative Manager: 100 Cohn; 577-4086
Mailing address for all offices: College of Nursing, Wayne State University, 5557 Cass Avenue, Detroit, Michigan 48202
Web: http://www.nursing.wayne.edu

BACHELOR OF SCIENCE IN NURSING

The undergraduate program is designed to prepare students upon graduation to begin the practice of professional nursing. The program leads to the degree of Bachelor of Science in Nursing (BSN) and provides a basis for graduate study in nursing. This curriculum consists of courses in both general and professional education. Program options include: Traditional, Second Career/Second Degree, RN Completion, and RN-MSN Programs.

Professional Program Admission

TRADITIONAL: Applicants are eligible to apply to the Traditional Program if they are entering nursing for the first time and have completed the pre-nursing requirements (see below). The Traditional Program of study begins during the fall term of the sophomore year. Students are eligible to apply for entry into the professional program after having completed at least thirty credits which include specific prerequisite courses, as outlined below, with a grade of 'C' (2.0) or better in each course. Applicants must have a minimum 2.5 grade point average in prerequisite courses to be eligible for admission consideration. If any professional nursing courses have been taken, grades earned in those courses will become part of the admission grade point average. Admission to the program is highly competitive and is based in large part on the grade point average earned in the prerequisite courses; therefore, the higher the average, the greater the likelihood of admission. The applicant's academic record indicating ability to pursue a full-time rigorous professional program is part of the admission criteria.

SECOND CAREER/SECOND DEGREE: Applicants are eligible to apply to the Second Career/Second Degree Program if they have an earned baccalaureate degree from an accredited institution in a discipline other than nursing and are entering nursing education for the first time. This is an accelerated, full-time program beginning in the fall term for four consecutive semesters. Applicants are eligible to apply for entry into the program after completing the prerequisite courses (see below) with a grade of 'C' (2.0) or better in each course. Applicants must have a minimum 2.5 grade point average in prerequisite courses to be eligible for admission consideration. If any professional nursing courses have been taken, grades earned in those courses will become part of the admission grade point average. Admission to the program is highly competitive and is based in large part on the grade point average earned in the prerequisite courses; therefore, the higher the average, the greater the likelihood of admission. The applicant’s academic record indicating ability to pursue a full-time rigorous professional program is part of the admission criteria.

RN COMPLETION PROGRAM: Applicants are eligible to apply to the RN Completion Program if they are Michigan-licensed registered nurses (RNs) who have completed diploma or associate degree programs and wish to continue their professional education. The Program is offered every semester.

RN-MSN PROGRAM: Applicants are eligible to apply to the RN-MSN Program if they are Michigan licensed registered nurses and are interested in preparing for advanced nursing practice at the master’s level. The RN-MSN Program combines the baccalaureate and master’s degree programs for RNs. The program allows students to apply a maximum of fifteen graduate credits toward both an undergraduate degree and a graduate degree in nursing. Upon completion of all BSN requirements, students, if admissible to graduate study, complete MSN requirements.
Transfer Students

Students may transfer credit for the prerequisite courses from community colleges or universities and apply for admission to the College of Nursing. Students may apply for transfer to upper division levels from BSN accredited programs. Transfers to the upper division level will be determined by the equivalency of curricula as determined by the Associate Dean for Academic and Clinical Affairs and upon available space in the program in upper division courses. The College determines which transfer credit is applicable to the BSN degree.

Pre-Nursing Requirements

TRADITIONAL PROGRAM: The pre-nursing requirements for admission into the Traditional Program are completion of a minimum of thirty credits, including satisfaction of the Mathematics Competency (MC) requirement of the General Education Requirements, and completion of the following courses with a grade of ‘C’ (2.0) or better:

- BIO 1510 -- (LS) Basic Life Mechanisms (Laboratory): Cr. 4
- BIO 2200 -- (LS) Introductory Microbiology: Cr. 4
- BIO 2870 -- Anatomy and Physiology (Laboratory): Cr. 5
- CHM 1020 -- (PS) General Chemistry I (Laboratory): Cr. 4
- CHM 1030 -- General Chemistry II (Laboratory): Cr. 4
- ENG 1020 -- (BC) Introductory College Writing: Cr. 4
- PSY 1010 -- (LS) Introductory Psychology: Cr. 4
- PSY 2400 -- Developmental Psychology: Cr. 4
- SOC 2000 or ANT 2100
  -- (SS) Understanding Human Society: Cr. 3
  -- (SS) Introduction to Anthropology: Cr. 3

Mathematics Competency (MC) Requirement

The Mathematics Competency (MC) requirement may be satisfied by examination (see General Education Requirements, page 23). All applicants must have a minimum 2.5 grade point average in prerequisite courses to be eligible for admission consideration. If any professional nursing courses have been taken, grades earned in those courses will become part of the admission grade point average. Since admission to the program is competitive, the higher the grade point average, the greater the likelihood of admission.

NOTE: All sciences must include a laboratory component.

SECOND CAREER/SECOND DEGREE PROGRAM: The pre-nursing requirements for admission into this program include completion of a baccalaureate degree from an accredited institution, and completion of the following courses with a grade of ‘C’ (2.0) or better:

- BIO 1510 -- (LS) Basic Life Mechanisms (Laboratory): Cr. 4
- BIO 2200 -- (LS) Introductory Microbiology (Laboratory): Cr. 4
- BIO 2870 -- Anatomy and Physiology (Laboratory): Cr. 5
- CHM 1020 -- (PS) General Chemistry I (Laboratory): Cr. 4
- CHM 1030 -- General Chemistry II (Laboratory): Cr. 4
- PSY 2400 -- Developmental Psychology: Cr. 4
- One Sociology (SOC) course OR One Foreign Culture or Cultural Anthropology (FC) course: Cr. 3
- ANT 2100 -- (SS) Introduction to Anthropology: Cr. 3
- Philosophy and Letters (PL) OR Visual & Performing Arts (VP) course: Cr. 3
- NFS 2210 -- Human Nutrition: Cr. 3

All applicants must have a minimum 2.5 grade point average in prerequisite courses to be eligible for admission consideration. If any professional nursing courses have been taken, grades earned in those courses will become part of the admission grade point average. Since admission to the program is competitive, the higher the grade point average, the greater the likelihood of admission.

NOTE: All sciences must include a laboratory component.

Enrollment in Professional Nursing Courses

1. Admission to the College of Nursing and fulfillment of all prerequisites/corequisites identified for nursing courses.
2. **Health Status Report:** Students admitted to the College are required to have a **Health Clearance Form** on file in the Office of Student Affairs. The health clearance must indicate that the student is in good health, free from communicable disease, and able to engage in a rigorous professional program with extensive clinical experiences. Health requirements are specified on the clearance form; some must be repeated yearly. Verification of compliance must be supplied annually to the Office of Student Affairs prior to August 15 for clinical courses beginning Fall Term. Throughout the program students must maintain a level of health consistent with meeting the objectives of the curriculum and practicing nursing safely. If a health problem occurs during a student’s educational program, the faculty member responsible for clinical practice will assess the student’s ability to continue in the program and will make recommendations for action to the Associate Dean for Academic and Clinical Affairs. The University and the College reserve the right to refuse or cancel a student’s admission or to restrict his/her activities in the College if the health status indicates such action is warranted for safeguarding the patient, the student, other students, or the University.

3. **Liability Insurance:** The minimum amount of malpractice liability insurance acceptable is $1,000,000/$3,000,000 to cover each year of the student’s nursing studies. Each student is to present a copy of his/her insurance policy to the Office of Student Affairs no later than August 15 of each year. This copy must show the amount of coverage, the expiration date, and the student’s name. Students may not participate in clinical courses without a copy of this policy being on file.

4. **BLS for Health Care Providers Certification:** All students must have BLS for Health Care Providers (BLS-HCP) Certification or the equivalent for entry to clinical courses. It must be updated each year and students must have current, updated certification on file in the Office of Student Affairs by August 15 of each year.

Faculty are directed to deny student access to clinical experiences if the student cannot present proof of current health clearance, BLS certification, and malpractice insurance.

**Re-Entry into the Clinical Sequence of the Nursing Curriculum**

Students whose progression in the clinical sequence of the program is interrupted due to unsatisfactory completion of course work prerequisite to a clinical course or to interruption in attendance in the program, must apply for re-entry into the clinical sequence. Contact the Office of Student Affairs for re-entry application materials. Students must file this application prior to March 31 for Fall Term re-entry, or August 31 for Winter Term re-entry. Application for re-entry will be reviewed by the College’s Scholastic Policy and Admissions (SPA) Committee. Re-entry decisions are based on the student’s academic record in the program and space availability; re-entry is not guaranteed.

**Registration**

Each student is to register at the beginning of each semester according to the procedure and schedule published in the official University Schedule of Classes. Students may not attend classes unless they are officially registered. The usual full-time undergraduate program is 12-16 credits per term.

**DEGREE REQUIREMENTS**

Candidates for the Bachelor of Science in Nursing must complete 128 credits in course work in accordance with the academic procedures of the University and the College; see sections beginning on page 23, 38, and 333.

**Residency:** The last thirty credits of the degree must be taken at Wayne State University.

**Grade Point Average:** A student must maintain a grade point average of at least 2.0 in total residence credit and in all nursing courses and corequisite courses.

**Curriculum and Program Requirements:** A student must complete the curriculum and program requirements, remove any marks of ‘I’ or ‘Y’, and be recommended by the faculty for the degree. The student must complete the required minimum number of credits, elect courses in the proper sequence in the appropriate curriculum (as shown below), and satisfy any course prerequisite or corequisite.

**Professional and General Education Requirements for the Traditional Program**

The following curriculum outlines the total 128 credits required for the Bachelor of Science in Nursing, including sixty-three credits in nursing major courses. The last thirty credits of the degree must be taken at Wayne State University.

**Freshman Year**

**First Semester (Fall)**

- ENG 1020 -- (BC) Introductory College Writing: Cr. 4
- BIO 1510 -- (LS) Basic Life Mechanisms (Laboratory): Cr. 4
- CHM 1020 -- (PS) General Chemistry II (Laboratory): Cr. 4
- UGE 1000 -- (GE) Information Power: Cr. 1
- Total credits: 17

**Second Semester (Winter)**

- ENG 2400 -- Developmental Psychology: Cr. 4
- ENG 2200 -- (LS) Introductory Microbiology (Laboratory): Cr. 4
- BIO 2870 -- Anatomy and Physiology (Laboratory): Cr. 5
- CHM 1030 -- General Chemistry II (Laboratory): Cr. 4
- CHM 1020 -- (PS) General Chemistry II (Laboratory): Cr. 4
- SOC 2000 or ANT 2100
  -- (SS) Understanding Human Society: Cr. 3
  -- (SS) Introduction to Anthropology: Cr. 3
- Total credits: 20

**Sophomore Year**

**First Semester (Fall)**

- NUR 2000 -- Conceptual Basis of Professional Nursing: Cr. 2
- NUR 2010 -- Health Assess.: History Taking & Physical Exam: Cr. 4
- NUR 2020 -- Foundations of Health & Health Promotion: Cr. 3
- NUR 2030 -- Pathophysiology Related to Nursing Practice: Cr. 2
- Critical Thinking (CT): Cr. 0-3
- Total credits: 12-15

**Second Semester (Winter)**

- NUR 2040 -- Environments of Care in the Community: Cr. 2
- NUR 2050 -- Supportive Measures for Basic Care Needs: Cr. 4
- NUR 2060 -- Nursing Implications of Drug Administration: Cr. 2
- NFS 2210 -- Human Nutrition: Cr. 3
- Computer Literacy (CL) (NUR 1110 recommended): Cr. 0-2
- Oral Communication (OC): Cr. 0-2
- Total credits: 11-15

**Junior Year**

**First Semester (Fall)**

- NUR 3010 --Restorative Care: Adults with Acute Illness: Cr. 6
- NUR 3015 -- Restorative Care: Psychiatric Mental Health Nurs.: Cr. 5
- ENG 3010 -- (BC) Introductory College Writing: Cr. 4
- Total credits: 14

**Second Semester (Winter)**

- NUR 3020 -- Restorative Care of Adults with Chronic Illness: Cr. 6
- NUR 3400 -- Introduction to Nursing Research: Cr. 2
- Total credits: 17
College of Nursing

Senior Year

First Semester (Fall)
- NUR 4010 -- Integrative Care of Children & their Families: Cr. 5
- NUR 4020 -- Integrative Care of the Perinatal Family: Cr. 5
- NUR 4030 -- Community Health: At-Risk Urban Populations: Cr. 4
- Foreign Culture (FC) (NUR 4800 recommended): Cr. 3

Total credits: 17

Second Semester (Winter)
- NUR 4040 -- (WI) Leadership and Mgt. in Nursing Practice: Cr. 4
- NUR 4050 -- Transition to Professional Nursing Practice: Cr. 4
- NUR 4060 -- Legal, Ethical & Health Policy Issues: Cr. 2
- Historical Studies (HS): Cr. 3
- Visual and Performing Arts (VP): Cr. 3

Total credits: 16

Professional Education Requirements for the Second Career/Second Degree Program

In addition to the pre-nursing requirements for the Second Career/Second Degree Program (see page 330) the following professional educational courses are required, in addition to a minimum of sixty-three credits in prior baccalaureate and pre-nursing requirements:

First Semester (Fall)
- NUR 2010 -- Health Assessment: History Taking & Phys. Exam: Cr. 4
- NUR 2020 -- Foundations of Health & Health Promotion: Cr. 3
- NUR 2030 -- Pathophysiology Related to Nursing Practice: Cr. 2
- NUR 2050 -- Supportive Measures for Basic Care Needs: Cr. 4
- NUR 2060 -- Nursing Implications of Drug Administration: Cr. 3

Total credits: 16

Second Semester (Winter)
- NUR 2070 -- Professional Nursing in the Future: Cr. 4
- SOC 2000 or ANT 2100
  -- (SS) Understanding Human Society: Cr. 3
  -- (SS) Introduction to Anthropology: Cr. 3
- NUR 3015 -- Restorative Care: Psychiatric Mental Health Nursing: Cr. 5
- NUR 3025 -- Restorative Care: Adults: Complex Needs: Cr. 10
- NUR 7010 -- Research in Nursing: Cr. 3

Total credits: 18

Third Semester (Spring/Summer)
- NUR 4010 -- Integrative Care of Children & their Families: Cr. 5
- NUR 4020 -- Integrative Care of the Perinatal Family: Cr. 5
- NUR 7010 -- Research in Nursing: Cr. 3

Total credits: 13

Fourth Semester (Fall)
- NUR 4120 -- Community-Focused Nursing Practice: Cr. 6
- NUR 4040 -- (WI) Leadership and Mgt. in Nursing Practice: Cr. 4
- NUR 4050 -- Transition to Professional Nursing Practice: Cr. 5
- NUR 4060 -- Legal, Ethical & Health Policy Issues: Cr. 2

Total credits: 15

Nursing credits: 63
Non-Nursing credits: 65
BSN Total Credits: 128

RN Completion Program and RN to MSN Completion Program

Requirements: All students must achieve a grade of ‘C’ or better in all courses cited below. A cumulative grade point average of 2.00 or above must be maintained. These courses may not be taken for Passed-Not Passed grades.

PROGRESSION TO SENIOR YEAR: All RN students must file an Application for Progression to the Senior Year by the appropriate deadline. Upon completion of the senior year application, RN students will receive thirty-three credits for previous nursing education validated by a current licence to practice in the state of Michigan.

The following courses are required for progression into Senior Year:
- BIO 1510 -- (LS) Basic Life Mechanisms (Laboratory): Cr. 4
- BIO 2200 -- (LS) Introductory Microbiology: Cr. 4
- BIO 2870 -- Anatomy and Physiology (Laboratory): Cr. 4
- CHM 1020 -- (PS) General Chemistry I (Laboratory): Cr. 4
- CHM 1030 -- General Chemistry II (Laboratory): Cr. 4
- ENG 1020 -- (BC) Introductory College Writing: Cr. 4
- ENG 3010 -- (IO) Intermediate Writing: Cr. 3
- SOC 1010 -- (LS) Introductory Sociology: Cr. 4
- SOC 2400 -- Developmental Psychology: Cr. 4
- SOC 2000 or ANT 2100
  -- (SS) Understanding Human Society: Cr. 3
  -- (SS) Introduction to Anthropology: Cr. 3
- NUR 2010 -- Health Assessment: History Taking & Phys. Exam: Cr. 4
- NUR 2070 -- Professional Nursing in the Future: Cr. 4
- NUR 3400 -- Intro. to Nursing Research: Cr. 2

NOTE: NUR 2070 and NUR 3400 are not required for students in the RN-MSN Program.

General Education Requirements: The student must also demonstrate satisfactory completion of the University General Education Requirements (see page 23), including English Proficiency (EP), Mathematics Competency (MC), Critical Thinking (CT), Computer Literacy (CL) (NUR 1110 recommended), Oral Communication (OC), and UGE 1000 — (GE) Information Power.

NOTE: UGE 1000 is not required of students transferring thirteen or more semester credits to Wayne State University.

RN TO MSN PROGRAM — DECLARATION OF GRADUATE MAJOR: Students in the RN to MSN Program must declare their intended graduate major and begin the application process for admission to the Graduate School and the Master of Science in Nursing Program before entering senior level nursing courses.

RN-MSN PROGRAM — SENIOR LEVEL PROFESSIONAL AND GENERAL EDUCATION REQUIREMENTS: In addition to the prerequisites for progression into senior year listed above, the following senior level professional nursing courses are required. The remaining General Education Requirements and Liberal Arts credits (if needed) comprise the balance of the 128 credits required for the Bachelor of Science in Nursing; these courses may be taken prior to the senior level professional work.

The last thirty credits in course work must be taken at Wayne State University.

NUR 4120 -- Community Focused Nursing Practice: Cr. 6
NUR 4040 -- (WI) Leadership and Mgt in Nursing Practice: Cr. 4
NUR 4300 -- Nursing Informatics: Cr. 3
NUR 4800 -- (FC) Transcultural Health through the Life Cycle: Cr. 3
Foreign Culture (FC): Cr. 3
Historical Studies (HS): Cr. 3
Visual and Performing Arts (VP): Cr. 3
Philosophy and Letters (PL): Cr. 3
American Society and Institutions (AI): Cr. 3

RN TO MSN PROGRAM — SENIOR LEVEL PROFESSIONAL AND GENERAL EDUCATION REQUIREMENTS: In addition to the prerequisites for progression into senior year listed above, the following senior level professional nursing courses are required. The remaining General Education Requirements and Liberal Arts credits (if needed) comprise the balance of the 128 credits required for the Bachelor of Science in Nursing; these courses may be taken prior to the senior level professional work.
The last thirty credits in course work must be taken at Wayne State University.

NUR 4120 -- Community Focused Nursing Practice: Cr. 6
NUR 4040 -- (WI) Leadership and Management in Nursing Practice: Cr. 4
Foreign Culture (FC): Cr. 3
Historical Studies (HS): Cr. 3
Visual and Performing Arts (VP): Cr. 3
Philosophy and Letters (PL): Cr. 3
American Society and Institutions (AI): Cr. 3

RN TO MSN PROGRAM — GRADUATE LEVEL PROFESSIONAL REQUIREMENTS: In all graduate-level courses taken in the RN to MSN Completion Program, a grade of ‘B’ or better must be achieved for these courses to be transferable to the graduate plan of study. Admission to graduate study is not automatic nor guaranteed. A separate application for graduate study must be submitted by the established deadline.

For students admitted to graduate study in the College of Nursing, up to fifteen credits in the graduate level courses listed below may be applied toward the Master of Science in Nursing. Following admission to the program, students will complete up to thirty-seven credits in graduate course work (depending on the nursing major). Graduate majors include: Adult Acute and Critical Care, Adult Primary Care Nursing/Gerontological Nurse Practitioner, Psychiatric Mental Health Nurse Practitioner, Community Health Nursing, and Advanced Practice Nursing with Women, Neonates, and Children.

NOTE: Graduate courses may differ, depending on graduate major:
NUR 6510 -- Health Economics: Policy & Prof. Issues: APNs: Cr. 3
NUR 7010 -- Research in Nursing: Cr. 3
NUR 7100 -- Theoretical Foundations of Nursing Practice: Cr. 3
NUR 7110 -- Responses & Experiences in Health & Illness: Cr. 3
Plus ONE of the following:
NUR 7000 -- Statistics in Nursing: Cr. 3
NUR 7030 -- Advanced Nursing Assessment: Cr. 4-5

ACADEMIC REGULATIONS

For complete information regarding academic rules and regulations of the University, students should consult the section beginning on page 5. The following additions and amendments pertain to College of Nursing students.

The following definitions of terms apply to the Academic Regulations:
1. Professional course is any course required in the professional nursing curriculum.
2. Satisfactory grade is a grade of ‘C’ (2.0) or better.
3. Unsatisfactory grade is a grade below 2.0, or a mark of ‘X’ or an unauthorized mark of ‘W’.
4. Probation is a restricted status in the nursing program.
5. Exclusion from the program means that the student may not register in the program. (Continued registration in the University will necessitate that the student processes a Change of College to another academic program.)

Attendance
Regular punctual attendance in classes and clinical practice is expected. It is imperative that students maintain a perfect or near-perfect attendance record. Tardiness and/or failure to report to class can result in a lowering of the final course grade or exclusion from the course.

Time Limitation
The Traditional Program must be completed within four calendar years of admission to professional course work, unless an extension is granted by the Scholastic Policy and Admissions (SPA) Committee.

The Second Career/Second Degree Program must be completed within four consecutive semesters following admission to the program.

All students whose progress is delayed by reason of academic failure and/or leaves of absence beyond the time limitation for the program may be required to repeat and/or take additional course work in order to assure graduation with appropriate preparation for current professional nursing practice. Such determination will be made by the SPA Committee.

Authorized Leave of Absence
A leave of absence may be requested by a student when personal circumstances interfere with the student’s ability to devote sufficient time to academic pursuits to assure reasonable expectation of success. Leaves of absence are requested from and granted by the Associate Dean for Academic and Clinical Affairs, in consultation with the SPA Committee. The student should contact the Office of Student Affairs for the necessary materials and deadline dates regarding leaves of absence. A student who is granted an approved leave of absence is assured progression in the program as designated. A student who takes an unauthorized leave of absence will be considered to have voluntarily withdrawn from the program and must apply for readmission to the College.

Licensure Preparation
Successfully writing the NCLEX (RN licensure examination) is essential for each nurse in order to begin a professional nursing career. Beginning Fall 2002, all students who are not already RNs must comply with the following requirement for graduation: Under-
graduate students must earn a satisfactory score on a comprehensive examination taken in the final semester of the program. Students will complete a general review of specific nursing content areas in preparation for taking the NCLEX. Each student is expected to complete additional contact hours in the classroom and the College’s Learning Resource Center in preparation for licensure.

Scholarship
1. All students must maintain a satisfactory (2.0) grade point average in both: a) cumulative grades (general education and nursing); and b) professional nursing courses.
2. Students must achieve a 2.0 g.p.a. in each nursing course. A student may not continue in subsequent courses for which the failed course is a prerequisite until a minimum of 2.0 has been achieved.
3. A grade below ‘C’ (2.0) in a nursing course is unsatisfactory for progression.
4. Students may apply to repeat a nursing course, as space is available, only once to raise the grade to the 2.0 level or above.
5. A maximum of two nursing courses within the program may be repeated.
6. No nursing course for which a student has received a passing grade may be repeated without written approval of the Associate Dean for Academic and Clinical Affairs.
7. A student receiving a ‘C-minus’ (1.67 g.p.a.) grade or less in either the theory or the clinical portion of any nursing course will have recorded no higher than a ‘C-minus’ for the total course and will be required to successfully complete the re-entry process to repeat it before progressing to the next clinical course.
8. The mark of ‘I’ is appropriate if the student encounters a catastrophic situation which prevents completion of the final requirements of a course. The mark of ‘I’ is not appropriate for unsatisfactory scholastic performance. In the event a mark of ‘I’ is given, the time limit for completion will be determined by the instructor, but may not exceed one year. In the event the mark of ‘I’ is received for a prerequisite course, the ‘I’ must be removed prior to enrollment in the subsequent course.

Probation
Probationary status is a warning to a student to improve his/her academic performance in order to remain in the program.
1. A student is placed on probation if he/she does not maintain a minimum cumulative grade point average of 2.0.
2. A student is placed on probation if he/she does not maintain a minimum grade point average of 2.0 in professional nursing courses.
3. A grade point average must be returned to a minimum of 2.0 to remove probationary status. Probationary status must be removed within one calendar year.
4. Students on probation are not eligible to represent the College in any student activity.

Exclusion
A student will be excluded from the College if any of the following conditions occur:
1. Failure to satisfactorily complete a nursing course after two attempts;
2. Failure of more than two professional nursing courses;
3. Failure to remove probationary status within one calendar year;
4. Irresponsible attendance or irresponsible performance/behavior at any time while enrolled in the program;
5. Failure to meet any special conditions required by the College SPA Committee for the student’s continuation in the program;
6. Failure to complete the program within the time limitations outlined above, unless granted an extension by the Scholastic Policy and Admissions Committee.

Graduation Residency Requirement
The last thirty credits of the degree must be taken as resident credit at Wayne State University.

Graduation With Distinction
A candidate eligible for the bachelor’s degree may receive a special diploma with Cum Laude, Magna Cum Laude, or Summa Cum Laude indicated. For the University guidelines regarding these distinctions, see page 34.

Dean’s List and Honors List
Students completing twelve semester credits in study at Wayne State University are eligible for appointment each semester. The semester grade point average at Wayne State must be 3.75 or above in order to qualify for the Dean’s List, or a 4.0 g.p.a. for students registered for six to eleven credits. The Honors List requires a minimum grade point average of 3.50. Lists of students on the Dean’s List and Honors List will be posted in the College of Nursing. Students who receive marks of ‘I’ or ‘W’ or ‘X’ and grades of ‘N’ or ‘U’ are not eligible. (For explanation of grades and marks, see page 42.)

Student Rights and Responsibilities
Continuance in the College is contingent upon compliance with official rules, regulations, requirements, and procedures of the University and the College of Nursing. The student is responsible for reading the contents of this bulletin pertinent to the College of Nursing and otherwise becoming informed and fulfilling all course and degree requirements in proper sequence with satisfactory performance. In case of doubt regarding any matter affecting his or her standing as a student, the student should consult with an adviser. The faculty reserves the right to amend or revise the policies and requirements set forth in the College of Nursing section of this bulletin.

Financial Assistance
The University Office of Scholarships and Financial Aid, located in the Welcome Center (see page 20), administers scholarships, grants, loans and emergency funds available to all University students and funds provided especially for College of Nursing students. Early application is encouraged.

The College of Nursing offers both scholarship and loan funds. Application materials and deadline dates can be obtained from the Office of Student Affairs, College of Nursing, 10 Cohn. The deadline for application for College of Nursing scholarships is July 1.

College of Nursing Alumni Community Service Award: Award open to any nursing student who shows evidence of community involvement, has a minimum g.p.a. of 3.0, and demonstrates qualities of leadership and financial need.

College of Nursing Alumni Endowed Scholarship: Award open to any full-time nursing student with a minimum g.p.a. of 3.0, qualities of leadership, and financial need.

College of Nursing Alumni Undergraduate Scholarship: Award open to any full-time undergraduate nursing student with a minimum g.p.a. of 3.0, qualities of leadership, and financial need.

Mildred E. Halvorsen Endowed Scholarship: Award open to any full-time student accepted into the College of Nursing.
John Helfman Nursing Scholarship: Award open to any undergraduate nursing student with senior class standing, outstanding scholastic achievements and leadership abilities, and demonstrated financial need.

Helen Newberry Joy Scholarship: Award open to any undergraduate student admitted to the College, based on financial need and with consideration given to academic standing and service.

Richard and Ruth Morrissey Endowed Scholarship: Award open to any full-time undergraduate student enrolled in a degree program in the College of Nursing.

Beatrice L. Murray Endowed Scholarship: Award open to any full-time student accepted into the College of Nursing.

Carolyn L. Rivers Annual Scholarship in Nursing: Award open to any full-time student enrolled in a College of Nursing degree program whose family has a demonstrated financial need.

Sigma Theta Tau Scholarship: Award open to any student enrolled in a College of Nursing degree program.

Steiger Memorial Scholarship: Award open to any nursing student with demonstrable financial need.

Joseph Taranto Undergraduate Scholarships: Awards open to any undergraduate student enrolled in a College of Nursing degree program.

WSHF Student Financial Assistance Award: Award open to any nursing student; selected on the basis of scholastic achievement, qualities of leadership, and financial need.

Organizations

The College of Nursing Council is composed of elected representatives of students and faculty. Its purpose is to reflect the concerns of the student members to the University and the larger community.

W.S.U. Chapter of the National Student Nurses’ Association provides a means of professional development for students and for direct participation by students in the continuing development of nursing.

Chi Eta Phi Sorority, Inc., is a national professional nurses’ organization with a focus on African American nursing issues.

Sigma Theta Tau, International Honor Society of Nursing, installed Lambda Chapter on the Wayne State University campus in 1953. Its purposes include recognition of superior scholastic achievement and leadership potential. Candidates for membership are elected annually from baccalaureate and graduate programs.

The Alumni Association of the College of Nursing is composed of graduates, faculty and former students of the College. This group is part of the general University Alumni Association, but has its own organization. Its purpose is to keep members in close touch with College activities and with professional developments, and to work for the welfare of the College of Nursing.

Employment Opportunities for Students

Part-time employment opportunities are available both on and off campus for students. Information about these and other opportunities may be obtained from Career Planning and Placement, 1001 Faculty/Administration Building.

NURSING COURSES (NUR)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

1110 (CL) Introduction to Computers and Technology for Health Care Professionals. Cr. 2
Introduction to computer terminology, hardware, software, telecommunication, word processing, database, spreadsheet, impact of computer technology on health care practitioners. Computer laboratory activities. Material fee as indicated in Schedule of Classes. (F,W)

2000 Conceptual Basis of Professional Nursing Practice. Cr. 2
Introduction to the discipline and profession of nursing through the examination of historical development, legal and professional regulations, conceptual models and theories, research-theory-practice relationships, clinical reasoning, and ethical principles. (F,W)

2010 Health Assessment: History Taking and Physical Examination. Cr. 4
Prereq: admission to the College of Nursing or RN licensure in Michigan; anatomy and physiology course; coreq: NUR 2020. Foundational learning experience for performing comprehensive health assessments of individuals in the context of family and community. Included are theory and skill in health history-taking, physical examination, and mental health screening of children, adults, and elders. Material fee as indicated in the Schedule of Classes. (T)

2020 Foundations of Health and Health Promotion Practice. Cr. 3-4
Prereq: admission to College of Nursing; Coreq: NUR 2000 and 2010. CPR-PR certification, liability insurance, health clearance required. Introduction to the phenomenon of health experienced by individuals across the lifespan within the context of family, group, and community. Review of theoretical perspectives on health and health promotion, multiple factors that influence health, sources of diversity in the health experience and a wide repertoire of health promotion strategies. Material fee as indicated in the Schedule of Classes. (F)

2030 Pathophysiology Related to Nursing Practice. Cr. 2
Prereq: an anatomy and a physiology course, including laboratory. No credit after IHS 3100 and IHS 3200. Exploration of processes by which disease occurs, body responses, and effects of diseases on normal physiology. Diseases explored in terms of definition, diagnosis, etiology, epidemiology, clinical manifestations, cultural and socioeconomic factors, and contemporary research. (T)

2040 Environments of Care in the Community. Cr. 2
Prereq: NUR 2000 and 2020. Community environments as contexts of health and nursing care. Introduction to community as client; ethical, legal, environmental, and epidemiological concepts related to care of individuals, families and groups. (Y)

2050 Supportive Measures for Basic Care Needs. Cr. 4
Prereq. or coreq: NUR 2020, 2030, 2110 and 2060. CPR-PR certification, liability insurance, health clearance required. Supportive nursing care strategies for individuals in the context of family and community. Emphasis on scientific basis of supportive care, critical thinking and nursing process, development of basic nursing care skills, therapeutic communication, and understanding of cultural context. Material fee as indicated in the Schedule of Classes. (W)
2060 Nursing Implications of Drug Administration. Cr. 3

2070 Professional Nursing in the Future: Strategies for Health Promotion. Cr. 3
Prereq: admission to College of Nursing, R.N., BCLS, liability insurance, health clearance. Preparation for professional practice; emphasis on developing knowledge and skills for health promotion within the context of groups and the community. Impact of nursing theories and research on practice, directed toward health promotion issues. Strategies for health promotion; focus on group process and teaching/learning. (Y)

3010 Restorative Care of Adults and Elders with Acute Illness. Cr. 6
Prereq: NUR 2050, NFS 2210; prereq. or coreq: ENG 3010 or ENG 3030. CPR-PR certification, liability insurance, health clearance required. Theory and practice in providing nursing care to adults throughout the lifespan experiencing acute disruptions in living patterns within the context of their families and in a community-based system of healthcare. Emphasis on practice within a theoretical framework using research-based interventions. Material fee as indicated in Schedule of Classes. (Y)

3015 Restorative Care: Psychiatric Mental Health Nursing Across the Lifespan. Cr. 5
Prereq: junior standing; CPR-PR certification; liability insurance; health clearance. Nursing care to individuals experiencing emotional crises and/or acute chronic psychiatric illnesses within the context of their families and communities. Biosocial theories of mental health and illness, determinants of mental illness; cultural and socioeconomic factors and psychotherapeutic modalities. Public and private systems of care for mental health promotion, restoration, and rehabilitation. (Y)

3020 Restorative Care of Adults and Elders with Chronic Illness. Cr. 6
Prereq: NUR 3010; CPR-PR certification; liability insurance and health clearance. Theory and practice in providing nursing care to adults throughout the adult lifespan experiencing chronic disruptions in living patterns within the context of their families in a community based system of healthcare. Material fee as indicated in Schedule of Classes. (Y)

3025 Restorative Care of Adults and Elders with Complex Health Needs. Cr. 10
Prereq: NUR 2050, 2040, NFS 2210, or equiv.; BCLS certification, liability insurance, health clearance. Provision of care of individuals within the family context, across community-based systems of health care. Students care for clients experiencing acute and chronic complex health problems. Material fee as indicated in Schedule of Classes. (Y)

3400 Introduction to Nursing Research. Cr. 2
Prereq: NUR 2000, 2050, computer literacy or NUR 1110. Introduction to the research process and research utilization in nursing practice. Research problems, access and retrieval of research literature and databases; reading and critiquing research studies, and individual and organizational strategies to promote research-based practice. (W)

4010 Integrative Care of Children and Their Families Cr. 5
Prereq: senior standing; CPR-PR certification; liability insurance; health clearance. Theory and practice in care of children in various states of health in the context of their families. Emphasis on knowledge of age-appropriate normal biological, physical, psychosocial, cognitive, moral, spiritual, and social development as a basis for implementing health promotive, supportive, and restorative practices with children of all ages in the context of their families in community-based systems of health care. Material fee as indicated in Schedule of Classes. (WS)

4020 Integrative Care of the Perinatal Family. Cr. 5
Prereq: senior standing; CPR-PR certification; liability insurance; health clearance. Theory and practice in care of the perinatal family: woman, fetus, newborn, and other members from preconception to postpartum and newborn in the first month of life. Emphasis on integrative care: health assessment, risk assessment, health promotion, supportive and restorative care of the woman and the family. Exploration of ethical and consumer movement effects on prenatal care. Material fee as indicated in the Schedule of Classes. (WS)

4030 Community Health Nursing Practice: Care of At-Risk Urban Populations. Cr. 4
Prereq: senior standing; CPR-PR certification; liability insurance; health clearance. Comprehensive learning experiences in community health nursing. Direct integrative care (health promotion, restorative and support care), and indirect services to urban at-risk individuals, families, populations, and communities. Concepts include: community populations, community as client, population-focused partnerships, collaborative practices and interdisciplinary teams. (W)

4040 (WI) Leadership and Management in Nursing Practice. Cr. 4
Prereq: senior standing; CPR-PR certification; liability insurance; health clearance. Theory and skill development in leadership processes in nursing practice. Assessment of a health care system, analysis of nurses roles, organizational design systems theory, leadership and management theory, culture, decision-making, delegation, conflict management, and planned change. (Y)

4050 Transition to Professional Nursing Practice. Cr. 4-5
Prereq: senior standing; CPR-PR certification; liability insurance; health clearance. Theory and practice in care of groups of patients with complex acute and chronic illness needs. Advanced critical thinking, clinical knowledge and judgment, and nursing skills. Organizational and interpersonal skill development for micro and macro management of groups of patients in a multidisciplinary environment. Material fee as indicated in Schedule of Classes. (Y)

4060 Legal, Ethical, and Health Policy Issues. Cr. 2
Prereq: senior standing. Legal, ethical, and health policy issues affecting health care delivery, policy formulation, and nursing practice. Interaction between health policy and finance as it effects the consumer and the environment in which nursing is practiced. (Y)

4120 Community Focused Nursing Practice. Cr. 6
Prereq: senior standing. CPR-PR certification, liability insurance, health clearance required. Analysis of role of professional nurse in community settings: caring for individuals and groups from diverse cultural backgrounds at various developmental stages and at any point on the health-illness continuum. (F)

4290 Special Topics in Community Health Nursing. Cr. 2-4 (4 req.)
Prereq: senior standing. BCLS-C certification, liability insurance, health clearance required. Provides students with an in-depth community health nursing experience. Special topics include: community health problems; interdisciplinary collaboration in health care; transcultural nursing, theory and practice; families in crisis. (Y)

4300 Nursing Informatics. Cr. 3
Prereq: NUR 1110 or equiv.; senior standing or consent of instructor. Opportunity for nursing students or registered nurses to develop knowledge and skills in nursing informatics. (Y)
4800  (FC) Transcultural Health Through the Life Cycle. Cr. 3
Prereq: junior standing; completion of sixty credits. Transcultural health differences and similarities in selected Western and non-Western cultures, from birth through old age. Use of theories and research methods from the health and social sciences and humanities in study and analysis of different cultures. (Y)

4990  Directed Study. Cr. 1-4
Prereq: admission to College of Nursing; written consent of Associate Dean for Academic and Clinical Affairs. (T)

6010  Writing for Nursing Publication. Cr. 3
Graduate students prepare to write for nursing and health-care publications; process from beginning the manuscript through publication. (Y)

6510  Health Economics, Policy, and Professional Issues for APNs. Cr. 3
Examination of the major health policy and professional issues relevant to the advanced-practice nurse. Students will be assisted in the synthesis of theoretical and pragmatic aspects of issues of concern in order to develop confidence in their skills and establish an APN practice. (F,W)
EUGENE APPLEBAUM COLLEGE OF PHARMACY AND HEALTH SCIENCES

DEAN: Beverly J. Schmoll
Foreword

The Eugene Applebaum College of Pharmacy and Health Sciences is a unit of the University formed by the administrative affiliation of the College of Pharmacy and the Division of Allied Health Professions of the School of Medicine. The academic programs of the two units maintain autonomous admission requirements, curricula, degree requirements and academic procedures.

Location

The College is a state-of-the-art facility, newly located on the campus of the Detroit Medical Center, one of the midwest's leading centers for healthcare, research, and education. The Center boasts a high concentration of health professionals, including the faculty and students of the Wayne State University School of Medicine, one of the nation's largest medical schools. The Eugene Applebaum College of Pharmacy and Health Sciences is designed to provide students with the latest tools to prepare them for health careers in the new economy.

Mission

The College mission is to advance the health and well-being of society through the preparation of highly-skilled health care practitioners, and through research to discover, evaluate, and implement new knowledge to improve models of practice and methods of treatment in pharmacy and health sciences from the urban to the global perspective.

The College offers a variety of graduate-professional and graduate programs designed to provide advanced-level professional training, basic research and scholarly activities in the various health science fields. Detailed information on each program may be found in the departmental sections.

Accreditation

Wayne State University is accredited by the North Central Association and all professional programs in the Eugene Applebaum College of Pharmacy and Health Sciences are accredited by their respective agencies (see page 9).

DEGREES

Upon completion of the requirements listed in each of the programs, the Eugene Applebaum College of Pharmacy and Health Sciences grants the following:

BACHELOR OF SCIENCE in Clinical Laboratory Science

BACHELOR OF SCIENCE in Allied Health Sciences
  — Cytotechnology Concentration
  — Laboratory Science Concentration
  — Occupational Therapy Concentration
  — Pharmaceutical Sciences Concentration
  — Pre-Physical Therapy Concentration

BACHELOR OF SCIENCE in Mortuary Science

BACHELOR OF SCIENCE in Pathologists’ Assistant

POST-BACHELOR’S CERTIFICATE in Forensic Investigation

POST-BACHELOR’S CERTIFICATE in Clinical Laboratory Science

*DOCTOR OF PHARMACY with a major in Clinical Pharmacy

*MULTI-SCIENCE with majors in
  Health Systems Pharmacy Management
  Occupational and Environmental Health Sciences with concentration in
    Industrial Hygiene
    Industrial Toxicology
    Occupational Medicine
  Pharmaceutical Sciences with concentration in
    Medicinal Chemistry
    Pharmaceutics
    Pharmacology/Toxicology

*MULTI-SCIENCE in Anesthesia

*MULTI-SCIENCE in Clinical Laboratory Science with concentration in
  Clinical Laboratory Instrumentation
  Education/Management
  Hematology

*MULTI-SCIENCE in Occupational Therapy

*MULTI-SCIENCE in Physician Assistant Studies

*MULTI-SCIENCE IN OCCUPATIONAL THERAPY

*MULTI-SCIENCE IN PHYSICAL THERAPY

*DOCTOR OF PHILOSOPHY with a major in
  Pharmaceutical Sciences with concentration in
    Medicinal Chemistry
    Pharmaceutics
    Pharmacology/Toxicology

*GRADUATE CERTIFICATE in Occupational Safety

*GRADUATE CERTIFICATE in Pediatric Anesthesia

*POST-MULTI-SCIENCE in Industrial Toxicology

* For specific requirements, see the Wayne State University Graduate Bulletin.
**FACULTY OF PHARMACY**

**History**

The Faculty of Pharmacy is the component of the Eugene Applebaum College of Pharmacy and Health Sciences offering a program of professional pharmaceutical education at the undergraduate, graduate and graduate-professional levels. This unit of the Eugene Applebaum College of Pharmacy and Health Sciences traces its past through two pharmacy colleges.

In 1890, the Detroit College of Pharmacy was founded as a program in the Detroit Medical College, the forerunner of the Wayne State University School of Medicine. The Detroit College of Pharmacy later separated from its parent institution, operated independently for two years, and in 1907, affiliated with the Detroit Institute of Technology.

In response to the urging of Detroit area pharmacists, and developing from the six-year course in pharmacy established at Cass Technical High School two years earlier, a new College of Pharmacy was organized by the Detroit Board of Education in 1924. This College of Pharmacy and the Detroit Board of Education's Colleges of Medicine, Education, Liberal Arts, Engineering and Graduate School were united in 1933 into a university called the Colleges of the City of Detroit and named Wayne University in 1934. In 1957, one year after Wayne University became Wayne State University, the College of Pharmacy at the Detroit Institute of Technology joined the College of Pharmacy at Wayne by merging into Wayne State University.

**Goals of the Faculty of Pharmacy**

Wayne State University is committed to the advancement of higher education and the contribution of services and research to the advancement of society. The Faculty of Pharmacy strives toward the achievement of these general goals:

1. To provide for the training, education and professional development of pharmacy students and pharmacists.
2. To foster interdisciplinary, community, University and professional interaction in education, research and community development needs.
3. To foster, conduct and promote applied research and problem-oriented basic research as a vital element of pharmaceutical care.
4. To provide for scholarly development and the dissemination of research findings and scholarly thought.
5. To encourage and support the development of appropriate pharmacist role models for various practice setting.

Pharmacy is a dynamic and essential component of the health care delivery system. Updating the curriculum and responding to the changing needs of society presents an exciting challenge to which the Faculty of Pharmacy has repeatedly responded. To this end, statements, provisions, or regulations contained herein are neither offers nor parts of a contract and the Faculty of Pharmacy reserves the right to change, at any time, any such statements, provision or regulation.

**Policy on Recruitment**

In accord with the Wayne State University Strategic Plan, the Faculty of Pharmacy of the Eugene Applebaum College of Pharmacy and Health Sciences recruits students from cultural/minority groups that are underrepresented in the student body, and reserves the right to overenroll disadvantaged/underrepresented minority students who meet minimum program requirements.

**Website:** http://www.cphs.wayne.edu/
The Profession of Pharmacy

Expanded opportunities for pharmacists in patient-care roles and therapeutic decision-making have occurred as a result of several developments. Like most of the health professions, the practice of pharmacy has experienced profound change during the past three decades. Its traditional role in drug distribution has increasingly expanded to incorporate the concept of pharmaceutical care. The pharmaceutical care philosophy gives pharmacists the responsibility for assuring drug therapy that achieves defined outcomes and improves a patient's quality of life. Pharmacists in contemporary practice are trained and expected to work collaboratively with the patient and the patient’s other health care providers to assure that drug therapy is safe and effective.

The ability of the pharmacist to play an active role in drug therapy is being recognized at both the state and national levels. In recent years, several states have passed, or are considering, legislation that allows pharmacists to initiate or modify drug therapy, through collaboration with a physician or through independent authority. In Michigan, pharmacists may prescribe under the delegated authority of a licensed physician.

The profession of pharmacy continues to progress from a drug-product orientation to a more patient-focused practice. In addition, employers in managed care, long-term care, and primary care are demanding pharmacy professionals with increasingly higher levels of education. To allow pharmacy students to still be trained intensely in the basic sciences while emphasizing patient assessment, communication, and pharmacotherapy, an additional year of training is now required. Therefore, the Doctor of Pharmacy degree at Wayne State University is now the entry-level pharmacy degree program.

Accreditation

Wayne State University’s Doctor of Pharmacy program is accredited by the American Council on Pharmaceutical Education, 20 North Clark Street, Suite 2500, Chicago IL 60602-5109, 312/664-3575; Fax, 312/664-7008.

The degree of Doctor of Pharmacy conferred by the College is the current minimal requirement for licensure eligibility and is recognized by all state boards of pharmacy.

Degrees

**BACHELOR OF SCIENCE in Allied Health Sciences**
—Pharmaceutical Sciences Concentration

**DOCTOR OF PHARMACY with a major in clinical pharmacy**

**MASTER OF SCIENCE with majors in health systems pharmacy management**
  - pharmaceutical sciences with concentration in medicinal chemistry,
  - pharmaceutics,
  - pharmacology/toxicology

**DOCTOR OF PHILOSOPHY with a major in pharmaceutical sciences with concentration in medical chemistry, pharmaceutics, pharmacology/toxicology**

* For specific requirements, see the Wayne State University Graduate Bulletin.
PHARMACEUTICAL SCIENCES

Office: 3610 APAHS; 577-1047
Chairperson: George B. Corcoran
Associate Chairperson: Craig K. Svensson
Website: http://ea.cphs.wayne.edu/psc.html

Professors

Hanley N. Abramson, Martin Barr (Emeritus), George B. Corcoran, Raymond J. Dauphinais (Emeritus), Melvin F. W. Dunker (Emeritus), George C. Fuller, Fusao Hirata, Robert T. Louis-Ferdinand, Janardan B. Nagwekar (Emeritus), Craig K. Svensson, Henry C. Wormser

Adjunct Professors


Associate Professors

Randall L. Commissaris, Alok K. Dutta, Anjan Kowluru, William J. Lindblad, David K. Pitts, Patrick M. Woster

Adjunct Associate Professors

Merlin E. Ekstrom, Peter D. Frade, Howard J. Normile, Ralph E. Parchman, J. Christopher States, Alice M. Young

Assistant Professors

Bhaskara L. Jasti, Robert J. Kerns

Adjunct Assistant Professors

Michael J. McCabe, Steven E. Rose, Bonita G. Taffe

Degree Program

BACHELOR OF SCIENCE in Allied Health Sciences
— Pharmaceutical Sciences Concentration

Bachelor of Science in Allied Health Sciences
— Preprofessional Admission

Admission requirements for the College of Liberal Arts are satisfied by the general requirements for undergraduate admission to the University; see page 13. Counselors are available in the Office of Admissions for personal conferences to aid the prospective student.

Recommended High School Preparation: Fifteen units of high school work are required for admission. The following units are recommended:

English: 4 units
Foreign Language: 1-2 units
Mathematics: 4 units
Laboratory Science: 3 units
Social Studies and History: 2 units

Students will find it advantageous to have had at least one year each of algebra, biology, chemistry, and physics. English, mathematics, and science are strongly recommended.

Application: For applicants who have not previously attended Wayne State University as undergraduate students, an official Application for Undergraduate Admission with a $30.00 Application Fee must be filed in the University Office of Admissions before any consideration regarding admissibility can begin. The University application may be secured from the Office of Admissions. High school students in Michigan can secure an application from their high school counselor. Foreign applicants desiring admission should file an Application for Admission to Undergraduate Studies for Applicants from Other Countries, with a $50.00 non-refundable application fee, with the admission office.

Applicants whose first language is not English must pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550. Applicants who have taken classes outside the United States must supply a detailed report evaluation of foreign educational credentials completed by Educational Credential Evaluators, Inc. (ECE). Contact ECE at 414-289-3400 for evaluation applications.

PREPROFESSIONAL COURSE REQUIREMENTS

The following courses (or their equivalents) may be taken at Wayne State University, another university, or a community college. Students are advised that no more than sixty-four community college credits may be transferred as applicable to the Doctor of Pharmacy degree. Requirements to be completed prior to admission to the pharmacy curriculum are:

1. Completion of fifty-eight credits in core courses (see below), plus any General Education credits required to demonstrate competency in computer literacy, critical thinking, and oral communication.

2. Completion of each of the following core courses (or their equivalents) with the grade of 'C' (2.0 g.p.a.) or better. Grades of 'C-minus' or below, or numerical grades below 2.0 g.p.a., are not acceptable.

Preprofessional Core

BIO 1510 — (LS) Basic Life Mechanisms: Cr. 4
BIO 2200 — (LS) Introductory Microbiology: Cr. 4
CHM 1220 — (PS) Chemical Structures, Bonding & Reactivity: Cr. 4
CHM 1230 — Chemical Principles Lab: Cr. 1
CHM 1240 — Principles of General/Organic Chemistry: Cr. 4
CHM 1250 — General/Organic Chemistry Lab: Cr. 1
CHM 2220 — Organic Chemistry: Cr. 3
CHM 2230 — Preparative Organic Chemistry Lab: Cr. 2
CSC 1000 — (CL) Intro. to Computer Science: Cr. 3
ECO 1000 or 2010 or 2020
— (SS) Survey of Economics: Cr. 4
— (SS) Principles of Microeconomics: Cr. 4
— (SS) Principles of Macroeconomics: Cr. 4
ENG 1020 or ENG 1050
— (BC) Introductory College Writing: Cr. 4
— (BC) Freshman Honors: English I: Cr. 4
ENG 3010 or ENG 3050
— (IC) Intermediate Writing: Cr. 3
— (IC) Technical Communication I: Report Writing: Cr. 3
MAT 2010 — Calculus I: Cr. 4
PHI 1050 or SPC 2110 or GIS 3260
— (CT) Critical Thinking: Cr. 3
— (CT) Argumentation and Debate: Cr. 3
— (CT) Methods of Search and Critical Thinking: Cr. 4
PHY 2130 — (PS) General Physics: Cr. 3
PHY 2131 — General Physics Lab: Cr. 1
P S 1010 — (AI) American Government: Cr. 4
ENG 3060 or GIS 1560 or SPB 1010
— (OC) Technical Comm. Il: Writing and Speaking: Cr. 3
— (OC) Dimensions of Oral Communication: Cr. 4
— (OC) Oral Communication: Basic Speech: Cr. 3

Other General Education Requirements:

Historical Studies (HS): Cr. 3
Foreign Culture (FC): Cr. 3
Visual and Performing Arts (VP): Cr. 3
Philosophy and Letters (PL): Cr. 3
UGE 1000 — (GE) Information Power: Cr. 1

Minimum total credits: 67
Basic Composition (BC) Competency: ENG 1020, 1050. This requirement may be met by earning an appropriate score on the University English Placement Examination, or by earning credit through Advanced Placement or CLEP examinations.

English Intermediate Composition (IC): ENG 3010, 3030, 3050 preferred; or ENG 2050, 2100, 2110, 2120, 2210, 2310, 2390, 2570.

English Proficiency (EP) Requirement: All applicants must demonstrate competence in written composition by successfully completing the English Proficiency Examination. Students who do not successfully complete the English Proficiency Examination after two attempts must elect and satisfactorily complete ENG 1080.

Competency/Proficiency Examinations: Contact the Testing and Evaluation Office, 698 Student Center, 577-3400, for details on competency and proficiency examinations, test costs, dates and times.

Computer Literacy (CL) Competency: CSC 1000. This competency may be demonstrated by successfully completing an approved course, passing the Computer Literacy Competency Examination, or having successfully completed a suitable high school course.

Critical Thinking (CT) Competency: PHI 1050, SPC 2110, GIS 3260. This competency may be demonstrated by successfully completing an approved course or passing the Critical Thinking Competency Examination.

Mathematics Competency Requirement: Transfer students may fulfill this competency by transferring credit for the equivalent of MAT 2010.

Oral Communication (OC) Competency: ENG 3060, GIS 1560, SPB 1010. This requirement may be met by successfully completing an approved course, passing the Oral Communication Competency Examination, or having successfully completed suitable high school courses.

The Pharmacy College Admission Test (PCAT) is required for admission. This standardized examination is offered in major cities three times a year, in October, January, and April. Applicants may obtain PCAT information by calling: (800) 622-3231.

Time Limitation: Because of rapid changes in technology, preprofessional science credits must be completed within five years prior to admission to the professional program.

General Education Requirements: Students must complete additional University General Education Requirements (see below, and page 23), for a total of sixty-two to seventy-four credits. The following requirements apply to students who do not have bachelor’s degrees from accredited institutions:

Some pre-pharmacy courses, indicated by parenthetical prefixes to course titles in the material above, fulfill University General Education Requirements. To complete the General Education Program, students must take one course in each of the following areas:

- Historical Studies (HS): Cr. 3
- Foreign Culture (FC): Cr. 3
- Visual and Performing Arts (VP): Cr. 3
- Philosophy and Letters (PL): Cr. 3
- UGE 1000 --(GE) Information Power: Cr. 1

(Effective Fall 1991, UGE 1000 is not required of students transferring thirteen or more semester credits to Wayne State University.)

APPLICATION DEADLINE: Deadline for submission of complete application materials is February 1. A complete application includes: application form, letters of recommendation, professional goal statement and resume, proof of completion of English proficiency requirement, transcripts, PCAT scores, and TOEFL scores (if required). Only candidates who have completed all prerequisite courses, or who will complete all prerequisite courses by the end of Winter Term, will be considered for admission. Candidates who have not completed the English proficiency requirement by February 1 may be required to enroll in and pass English 1080 during the Spring/Summer Term as a condition of admission. Incomplete applications are not reviewed by the Admissions Committee. Late applications are reviewed and held only for possible inclusion as ‘alternates’ should space in a class become available late in the admissions cycle.

Doctor of Pharmacy Program — Admission

Admission to the Doctor of Pharmacy Curriculum is granted only for the Fall semester. Enrollment in this curriculum is limited to applicants who have met the general University admissions requirements by the stipulated deadline and present evidence of professional admissibility and promise of academic and professional competence in pharmacy.

Application: Effective Fall 2004 Admission, applications to the Doctor of Pharmacy curriculum will be available through the Pharmacy College Application Service (PharmCAS). For applications and information, contact PharmCAS at: http://www.PharmCAS.org

Application Deadline: Deadline for submission of complete application materials to PharmCAS is February 1. (See preceding section.)

Admission to the Doctor of Pharmacy curriculum is competitive and the following criteria are used to evaluate applications from prospective students. Admission decisions are made by the Admissions Committee of the Faculty of Pharmacy. In exceptional circumstances, applicants who do not meet all of the following criteria may be considered for admission.

1. Minimum core grade point average (g.p.a.) of 2.5 (4-point system) calculated on the final grades earned in the required pre-professional courses. Completion of prerequisites with minimum grades does not guarantee admission.
2. Science grade point average (g.p.a.) of 2.5 (4-point system) calculated on the final grades earned in the required pre-professional science courses (biology, chemistry, physics, statistics, and mathematics). Completion of science prerequisites with minimum grades does not guarantee admission.
3. Promise of success in a professional curriculum. Transcripts are evaluated for continued success in a full-time, science-based curriculum. Patterns of course repetition and excessive withdrawals are considered. It is recommended that applicants have repeated not more than two mathematics and science courses in order to improve grades.
4. Two completed professional recommendations must accompany the completed application form. The applicant is encouraged to solicit the recommendations from two faculty members or one faculty member and one employer.
5. All applicants must write a professional goal statement as part of the application.
6. All applicants must include a personal resume, outlining community or vocational activities, honors, employment, extracurricular and volunteer activities.
7. All applicants must take the Pharmacy College Admissions Test (PCAT). Applicants may obtain PCAT information by calling: (800) 622-3231.
8. All applicants must complete the Wayne State University English Proficiency Requirement, during the Winter semester prior to fall admission. Out-of-state applicants may arrange for testing to satisfy this requirement at their present educational institution; for information, call the Testing and Evaluation Office: (313) 577-3400.
9. Applicants whose first language is not English must pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550.
10. A personal or written interview with a member of the Faculty of Pharmacy Admissions Committee may be offered and may be required.
Transferring Students: A student who anticipates admission to the Doctor of Pharmacy curriculum by transferring from a community college, university, or college outside Wayne State must complete an Undergraduate Application to Wayne State University in addition to the PharmCAS application, no later than February 1. Undergraduate applications are available online at: http://www.admissions.wayne.edu/ugrad/desk/index.html

Post-Bachelor Admission permits registration in undergraduate courses, subject to the approval of the Dean or the Dean’s designee and in conformance with University policy (see ‘Post-Bachelor Admission,’ page 46). Post-bachelor status is an undergraduate classification and therefore course credits earned in it may not be converted to graduate credit.

Post-Degree Students: Students with a baccalaureate degree from this college or another accredited college of pharmacy may be admitted as post-degree students. This rank permits registration in pharmacy courses subject to the approval of the Dean or the Dean’s designee. Post-degree status is an undergraduate classification and therefore course credits earned can not be converted to graduate credit.

Doctor of Pharmacy Degree Requirements

The Doctor of Pharmacy requires a minimum of 119 semester credits in the professional program. All course work must be done in compliance with the academic procedures of the University (see page 15) and the College (see page 350) as well as the following standards:

Residence: A student must have devoted at least two academic years to resident study in the Doctor of Pharmacy program, of which the last thirty credits must be taken at the Wayne State University Eugene Applebaum College of Pharmacy and Health Sciences.

Grade Point Average: A student must maintain a grade point average of at least 2.0 in all Doctor of Pharmacy courses and in total residence credit.

Curriculum and Program Requirements: A student must complete the curriculum and program requirements, remove any marks of ‘I’ or ‘Y’, and be recommended by the faculty for the degree. The student must complete the required minimum number of credits, elect courses in the proper sequence in the curriculum shown below, and meet any course prerequisite or corequisite, unless excused from doing so by the Dean.

**PHARM.D. CURRICULUM**

**First Professional Year (P-1)**

*Fall Semester*
- IHS 3100 -- Basic Mechanisms of Human Disease I: Cr. 5
- PSC 3110 -- Pharmaceutical Biochemistry I: Cr. 3
- PSC 3120 -- Dosage Form Design and Biopharmaceutics: Cr. 4
- PPR 3020 -- Introduction to Patient Care I: Cr. 2
- PPR 3040 -- Patient Care Lab I: Cr. 1

Total credits: 15

*Winter Semester*
- IHS 3200 -- Basic Mechanisms of Human Disease II: Cr. 5
- PSC 3210 -- Biotechnology in Therapeutics: Cr. 2
- PPR 3120 -- Pharmacy and Jurisprudence: Cr. 2
- PPR 3060 -- Introduction to Patient Care II: Cr. 2
- PPR 3070 -- Patient Care Lab II: Cr. 2
- PHA 3040 -- Medical Informatics: Cr. 2

Total credits: 15

*Spring Semester*
- PSC 3310 -- Principles of Drug Disposition: Cr. 3
- PSC 3320 -- Principles of Drug Action: Cr. 2

Total credits: 5

**Second Professional Year (P-2)**

*Fall Semester*
- PHA 4110 -- Principles of Pharmacotherapy I: Cr. 4
- PHA 4140 -- Principles of Pharmacotherapy III: Cr. 4
- PHA 4150 -- Principles of Pharmacotherapy II: Cr. 4
- PPR 4120 -- Patient Care Lab III: Cr. 1

Total credits: 13

*Winter Semester*
- PHA 4210 -- Principles of Pharmacotherapy IV: Cr. 6
- PHA 4220 -- Principles of Pharmacotherapy V: Cr. 4
- PHA 4240 -- Principles of Pharmacotherapy VI: Cr. 4
- PPR 4220 -- Patient Care Laboratory IV: Cr. 1

Total credits: 15

**Third Professional Year (P-3)**

*Fall Semester*
- PPR 6160 -- Advanced Therapeutic Problem Solving I: Cr. 5
- PPR 6180 -- Advanced Ethics and Professional Responsibility: Cr. 2
- PPR 6130 -- Advanced Health Care Topics: Cr. 4
- PPR 5000 -- (WI) Drug Literature Evaluation: Cr. 2
- Professional Electives: Cr. 2
- Seminar: Cr. 1

Total credits: 16

*Winter Semester*
- PPR 6260 -- Advanced Therapeutic Problem Solving II: Cr. 5
- PPR 6220 -- Health Care Outcomes: Cr. 2
- PHA 6010 -- Complementary/Alternative Medicines: Cr. 2
- PHA 7670 -- Clinical Pharmacokinetics: Cr. 2
- Professional Electives: Cr. 2
- Seminar: Cr. 1

Total credits: 14

*Fourth Professional Year (P-4)**

Spring/Summer, Fall, and Winter Semesters
- Advanced Practice Core Rotations: Cr. 12
- Advanced Practice Elective Rotations: Cr. 12
- Seminar: Cr. 2

Total credits: 26

Doctor of Pharmacy Practice Experiences: Four experiences are required and four experiences are elective. The pharmacy practice experiences may include adult medicine, pediatrics, drug information, and the like. In addition, students may elect up to two experiences in non-patient care settings, such as pharmaceutical sciences research, managed care, pharmacy organizations, institutional or community management, or pharmaceutical management.

Licensure: The graduate of the above curriculum earns a Doctor of Pharmacy degree and is eligible for the NAPLEX examination to obtain licensure as a pharmacist.

Pharmacy Practice Experience Requirements

To provide the pharmacy student with education in the application of knowledge he/she has gained in courses in the curriculum, pharmacy practice experiences also are scheduled throughout the first three years of the Pharm.D. program.

Pharmacy practice experiences give the student an opportunity to apply his/her pharmaceutical education directly to patients in a variety of pharmacy settings (community, ambulatory, and institutional locations). Practice experiences are required of all students.

Before students are scheduled in practice environments, they must provide health clearance documentation, proof of professional liability insurance, personal medical insurance, and Basic Cardiac Life Support certification; and sign a travel waiver. Additional information on pharmacy practice experience requirements and when they must be obtained will be provided by the College. Students provide their own transportation to practice site settings.
Pharmacist Licensure
Licensure as a pharmacist is available to graduates of the Doctor of Pharmacy program of the Eugene Applebaum College of Pharmacy and Health Sciences, either by examination or by reciprocity, in all states and in the District of Columbia.

Internship
Internship is an educational program of professional and practical experience under the supervision of a preceptor in a pharmacy approved by the Michigan State Board of Pharmacy beginning after a student has been licensed by the Board of Pharmacy as an intern. Students must obtain a Michigan Internship License when they begin the professional curriculum of the College.

For additional information regarding internship, examination or licensure in Michigan, write: Director, Licensing Division, State of Michigan Bureau of Health Services, Department of Consumer and Industry Services, P. O. Box 30670, Lansing MI 48909.

Reciprocity information is available from: The Executive Director, National Association of Boards of Pharmacy, 700 Busse Highway, Park Ridge, Illinois 60068-2402.

UNDERGRADUATE COURSES
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

NOTE: Professional pharmacy courses (PSC, PHA, PPR) require admission to the professional curriculum as a prerequisite. It is recommended that prepharmacy students do not take IHS 3100, 3200 and 3210 prior to admission to the professional program.

INTERDISCIPLINARY HEALTH SCIENCES COURSES (IHS)

3100 Basic Mechanisms of Human Disease I. Cr. 5
Prereq: BIO 1510 or equiv. First part of two-semester sequence: anatomy, physiology, and pathology of human organ systems. Material fee as indicated in the Schedule of Classes. (F)

3200 Basic Mechanisms of Human Disease II. Cr. 5
Prereq: IHS 3100. Continuation of IHS 3100. Second part of two-semester sequence. Material fee as indicated in the Schedule of Classes. (W)

3210 Basic Mechanisms of Human Disease: Laboratory. Cr. 1
Prereq: IHS 3100; coreq: 3200. Prosections to understand anatomical relationships. (S)

3300 Pharmacology for Health Sciences. Cr. 1
Prereq: IHS 3100, 3200 or equiv. Open only to health sciences students. Basic course for health sciences students in mechanisms of drug action (pharmacodynamics), and the use of drugs in the prevention and treatment of disease (pharmacotherapeutics). (W)

PHARMACEUTICAL SCIENCES COURSES (PSC)

3110 Pharmaceutical Biochemistry. Cr. 3
Prereq: admission to pharmacy program. Survey of biochemistry for pharmacy students, metabolism, and drug effects in the maintenance of normal human biochemistry and homeostasis. (Formerly PSC 3300) Material fee as indicated in the Schedule of Classes. (F)

3120 Dosage Form Design and Biopharmaceutics. Cr. 4
Prereq: admission to pharmacy program. Principles of dosage form design and introduction to biopharmaceutics. (Formerly PSC 3100) Material fee as indicated in the Schedule of Classes. (F)

3210 Biotechnology in Therapeutics. Cr. 2
Prereq: PSC 3110. Continuation of PSC 3110. (Formerly PSC 3400) Material fee as indicated in the Schedule of Classes. (W)

3310 Principles of Drug Disposition. Cr. 3
Prereq: PSC 3110, IHS 3100, completion of pharmacy calculations requirement; coreq: IHS 3200, PSC 3210, PPR 3060, PPR 3070. Basic principles and applications of pharmacokinetics, drug metabolism, and pharmacogenetics. Material fee as indicated in the Schedule of Classes. (Y)

4320 Principles of Drug Action. Cr. 2
Prereq: PSC 3310, PSC 3210, IHS 3200, PHA 3010. General principles of pharmacology and medicinal chemistry. (Y)

5600 Recreational Drug Use and Drug Abuse. Cr. 3-4
Prereq: PCL 4100, PCL 4200; PPR 4500, PPR 4600; fifth year standing. Pharmacology and toxicology, both clinical and animal, associated with recreationally-used agents; treatment of acute and chronic problems associated with these agents; concept of chronic drug administration and abuse as disease state. (Formerly PCL 5310) (Y)

5870 Seminar in Pharmacology. Cr. 1 (Max. 2)
Prereq: consent of instructor. Open only to undergraduates in good academic standing. Reports and discussions on current literature and recent advances in the field. Assigned topics presented by students. (Formerly PCL 5890) (T)

5990 Directed Study in Medicinal Chemistry. Cr. 1-3 (Max. 3)
Prereq: consent of instructor. Open only to undergraduates in good academic standing. (Formerly M C 5990) (T)

5991 Directed Study in Pharmacology. Cr. 1-3 (Max. 3)
Prereq: consent of instructor. Open only to undergraduates in good academic standing. (Formerly PHA 5990) (T)

5992 Directed Study in Pharmacology. Cr. 1-3 (Max. 3)
Prereq: consent of instructor. Open only to undergraduates in good academic standing. (Formerly PCL 5990) Material fee as indicated in the Schedule of Classes. (T)

6000 Fundamentals of Drug Design. Cr. 2
Prereq: last professional year, graduate, or graduate professional standing; consent of instructor. Discussion of practical applications of theoretical consideration in the design of new drug molecules. Topics include quantitative structure-activity relationships, metabolic antagonism, enzyme inhibition, and pro-drugs. (Y)

6600 (PPR 6600) Biostatistics. Cr. 3
Prereq: last professional year, graduate, or graduate professional standing. Use and interpretation of statistical tools in the pharmaceutical and clinical literature. (F)

6800 Introduction to Research. Cr. 2
Prereq: last professional year, graduate, or graduate professional standing. Introduction to research in the pharmaceutical sciences for students contemplating or beginning graduate study. (Y)

6890 Toxicology and Adverse Drug Reactions. Cr. 3
Prereq: last professional year, graduate, or graduate professional standing. Study of toxicity and adverse drug reactions including metabolism, hypersensitivity, carcinogenicity, drug-drug interactions, and other factors hazardous to human health. Material fee as indicated in the Schedule of Classes. (Y)
PHARMACY COURSES (PHA)

3030  Pharmacology Calculations and Descriptive Biostatistics. Cr. 1
Prereq: first professional year standing. Basics of pharmacy weights and measures; conversions between English, metric, and avoirdupois systems. Basic concepts in biostatistics: means, medians, modes. (F)

3040  Medical Informatics. Cr. 2
Prereq: first professional year standing. Essential elements of pharmacy practice; comparative biostatistics, including t-tests, ANOVA, regression analysis; non-parametric testing. (W)

4110  Principles of Pharmacotherapy I. Cr. 4
Prereq: PSC 3310, PSC 4320, second professional year status. Pharmacotherapeutic principles in autonomic, renal and immunologic diseases. (F)

4120  Pharmacotherapeutics II: Fluid and Electrolytes/ Renal. Cr. 1
Prereq: PSC 3310, PSC 4320, PPR 3230. Pharmacology, medicinal chemistry, therapeutic application, pharmacokinetics of drugs influencing fluid and electrolyte balance and drugs used in the management of renal diseases. (F)

4130  Pharmacotherapeutics III: Immunology and Inflammatory Disorders; Hematology. Cr. 2
Prereq: PSC 3310, PSC 4320, PPR 3230. Pharmacology, medicinal chemistry, therapeutic application, and applied pharmacokinetics of drugs that are immunomodulators and drugs that are used to treat inflammatory and hematologic and thromboembolic disorders. (F)

4140  Principles of Pharmacotherapy III. Cr. 4
Prereq: PSC 3310, PSC 4320, second professional year status. Pharmacotherapeutic principles in endocrine, respiratory and gastrointestinal diseases. (F)

4150  Principles of Pharmacotherapy II. Cr. 4
Prereq: PSC 3310, PSC 4320, second professional year status. Pharmacology, medicinal chemistry, therapeutic application, and applied pharmacokinetics of drugs that are used in the management of diseases of the cardiovascular system. (F)

4160  Pharmacotherapeutics IV: Gastroenterology/Nutrition. Cr. 2
Prereq: PHA 4110, 4120, 4130. Pharmacology, medicinal chemistry, therapeutic application, and applied pharmacokinetics of drugs that are used in the management of diseases of the gastrointestinal system. Factors involved in nutritional support in normal and abnormal physiology. (F)

4170  Pharmacotherapeutics VII: Oncology. Cr. 2
Prereq: PHA 4120, 4130. Pharmacology, medicinal chemistry, therapeutic application, and applied pharmacokinetics of drugs that are used in the management of neoplastic diseases. (F)

4210  Principles of Pharmacotherapy IV. Cr. 6
Prereq: PSC 3310, 4320, second professional year status. Pharmacotherapeutic principles in infectious diseases and dermatology. (W)

4220  Principles of Pharmacotherapy V. Cr. 4
Prereq: PSC 3310, 4320, second professional year status. Pharmacotherapeutic principles in neurology, psychiatry, and drug abuse. (W)

4230  Pharmacotherapeutics X: Psychiatry/ Drug Abuse. Cr. 2
Prereq: PHA 4220. Pharmacology, medicinal chemistry, therapeutic application, and applied pharmacokinetics of drugs that are used in the management of psychiatric diseases and those drugs and chemical entities that are commonly associated with abuse. (W)

4240  Principles of Pharmacotherapy VI. Cr. 4
Prereq: PSC 3310, 4320, second professional year status. Pharmacotherapeutic principles in oncology, clinical toxicology, and special patient populations. (W)

4250  Pharmacotherapeutics XII: Special Patient Populations. Cr. 4
Prereq: PHA 4240. Pharmacology, medicinal chemistry, pharmacokinetics and therapeutic applications of drugs to special patient populations. (W)

5000  (WI) Drug Literature Evaluation. Cr. 2
Prereq: third professional year standing. Principles and methods of evaluating the medical literature with an emphasis on that relating to the practice of pharmacy. Writing Intensive course in third professional year; in-class and out-of-class writing assignments required. (F, W)

PHARMACY PRACTICE COURSES (PPR)

3020  Introduction to Patient Care I. Cr. 2
Prereq: admission to pharmacy program. Concepts in pharmaceutical care, introduction to the health care system and pharmacist's roles, communication techniques and inter-professional communication. Material fee as indicated in the Schedule of Classes. (F)

3040  Patient Care Laboratory I. Cr. 1
Prereq: admission to pharmacy program. Hands-on training in the compounding and dispensing of pharmaceutical products, role playing in the interaction of pharmacists with patients and other professionals. Material fee as indicated in the Schedule of Classes. (F)

3060  Introduction to Patient Care II. Cr. 2
Prereq: PPR 3040. Second course in the patient care aspects of the pharmacy profession. (W)

3070  Patient Care Laboratory II. Cr. 2
Prereq: PPR 3050. Introduction to concepts in patient communication, prescription dispensing and compounding. Material fee as indicated in the Schedule of Classes. (W)

3120  Pharmacy Jurisprudence. Cr. 2
Prereq: P S 1010; PPR 3020, 3040; admission to professional curriculum. Various state and federal regulations affecting pharmacy practice and drug control. (W)

4110  Patient Education and Counseling. Cr. 2
Prereq: admission to professional curriculum. Pharmacy-related communication skills; health beliefs and adherence behaviors; oral and written patient counseling techniques. Modes of instruction include lectures, group discussions and workshops, role-playing with videotaping. (F)

4120  Patient Care Laboratory III. Cr. 1
Prereq: PPR 3040, 3070. Early patient care experiences in pharmacy practice. Material fee as indicated in the Schedule of Classes. (F)

4210  Pharmacy Management. Cr. 4
Prereq: PPR 3210, 3220. Principles of management as applied to the hospital/institutional organization and community pharmacy practice. (W)

4220  Patient Care Laboratory IV. Cr. 1
Prereq: PPR 4120. Early patient care experiences in pharmacy practice. Material fee as indicated in the Schedule of Classes. (F)

5000  (WI) Drug Literature Evaluation. Cr. 2
Prereq: third professional year standing. Principles and methods of evaluating the medical literature with an emphasis on that relating to the practice of pharmacy. Writing Intensive course in third professional year; in-class and out-of-class writing assignments required. (F, W)
5100  Clinical Pharmacy Clerkship Orientation. Cr. 1-2
Prereq: third professional year standing. Offered for S and U grades only. Orientation to and basic information necessary for effective participation in externship/clerkship experiences. (F,W)

5120  (WI) Hospital Pharmacy Externship. Cr. 4-7
Prereq: third professional year standing. Practicum experience in institutional pharmacy practice including aspects of drug information services, intravenous additive services, ambulatory pharmacy services, clinical pharmacy services and hospital pharmacy administration. Material fee as indicated in the Schedule of Classes. (F,W)

5130  Community Pharmacy Externship. Cr. 4-7
Prereq: third professional year standing. Practicum experience includes community pharmacy management, medication dispensing, and patient-oriented services such as consultation on the use of prescription and non-prescription medications, monitoring patient profiles and obtaining medication histories. (F,W)

5190  Pre-Pharm.D. Externship/Clerkship. Cr. 1-15
Prereq: admission to Pharm.D. program. Special pharmacy externship/clerkship experience conducted at selected approved sites and offered solely to students who have been admitted to the Doctor of Pharmacy Program. Credit assigned is based on departmental review of program objectives and time commitment. (I)

5220  Special Clinical Pharmacy Clerkship/Externship. Cr. 1-15
Prereq: last professional year standing; consent of clerkship/externship coordinator. Clinical pharmacy clerkship/externship experiences at selected approved sites with established experiential programs. Credit assigned is subsequent to departmental review of program and time commitment. (T)

5230  Health Care Topics. Cr. 4
Modern health care delivery systems and services. (F,W)

5240  Advanced Self-Care. Cr. 2
Instruction in assisting patients to provide self-care. (F,W)

5280  Ethics and Professional Responsibility. Cr. 2
Prereq: third professional year status. General ethical principles and how these principles relate to legal duties and rights to guide professional pharmacy practice and conduct. (Y)

5290  Pharmacy Practice and the Health Care System. Cr. 3
Prereq: third professional year standing. Offered for S and U grades only. Review of the history, development and present status of the health care system in the United States. Discussion of trends and projected future development of the system; discussion of the roles and strategies for effective pharmacy practice within the system. (W)

5300  Critical Analysis of Drug Related Problems. Cr. 2
Prereq: fifth year standing. Development of ability to analyze and solve pharmacotherapeutic problems using a student-centered problem-based learning model. (Y)

5700  Special Topics in Community Pharmacy Practice. Cr. 2-3
Prereq: last professional year standing. Discussion of current professional problems in community pharmacy practice. (F)

5800  History of Pharmacy. Cr. 2
Prereq: last professional year standing. History of pharmacy from antiquity to modern times; emphasis on development since eighteenth century, especially in Western Europe and the United States. (W)

5990  Directed Study in Pharmacy Practice. Cr. 1-3 (Max. 3)
Prereq: consent of instructor. Open only to undergraduates in good academic standing. (T)

5992  Professional Seminar. Cr. 1-3
Instruction in presentation skills. (F,W)

5240  Advanced Self-Care. Cr. 2
Prereq: admission to Pharm.D. program. Pharmacology and pathophysiology related to problem solving in critical illness. (W)

6070  Principles of Pharmacoeconomics. Cr. 3
Prereq: consent of instructor. Principles and tools used in economic evaluation of medications and technologies used in pharmacoeconomic research. Material fee as indicated in the Schedule of Classes. (F)

6110  Drug-Induced Diseases. Cr. 2
Prereq: third professional year standing. Understanding the pathology associated with the use of drugs. Mechanisms and examples of how drugs damage different organ systems. Material fee as indicated in the Schedule of Classes. (Y)

6120  Home Health Care. Cr. 3
Prereq: third professional year standing. Review of the availability and applications of surgical appliances and other health-care devices used in patient care. Material fee as indicated in the Schedule of Classes. (F)

6130  Advanced Health Care Topics. Cr. 4
Prereq: third professional year standing or admission to Pharm.D. program. Advanced concepts in modern health care delivery systems and services. (F)

6160  Advanced Therapeutic Problem Solving I. Cr. 5
Prereq: third professional year standing or admission to Pharm.D. program. Problem-based, student-centered approach to patient management. (F)

6180  Advanced Ethics and Professional Responsibility. Cr. 2
Prereq: third professional year standing or admission to Pharm.D. program. Advanced concepts in health care provision. (F)

6210  Intravenous Therapeutics. Cr. 2
Prereq: third professional year standing. The physiology of fluid balance, fluid balance abnormalities, acid-base balance, treatment of fluid abnormalities, maintenance requirements, electrolyte replacement, and diseases commonly associated with fluid imbalance. Material fee as indicated in the Schedule of Classes. (F,W)

6220  Health Care Outcomes. Cr. 2
Prereq: third professional year standing or admission to Pharm.D. program. Tracking and analyzing population health care outcomes in various settings. (W)

6260  Advanced Therapeutic Problem Solving II. Cr. 5
Prereq: third professional year standing, PHA 6160 or admission to Pharm.D. program. Continuation of PPR 6160. (W)

6600  Biostatistics. (PSC 6600) Cr. 3
Prereq: last professional year, graduate, or graduate professional standing. Use and interpretation of statistical tools in the pharmaceutical and clinical literature. (F)

6610  Disease Processes and Therapeutics I: Cardiology. Cr. 2
Prereq: admission to Pharm.D. program. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: cardiology. Material fee as indicated in the Schedule of Classes. (Y)

6620  Disease Processes and Therapeutics II: Infectious Diseases. Cr. 2
Prereq: admission to Pharm.D. program. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: infectious diseases. Material fee as indicated in the Schedule of Classes. (Y)

6630  Diseases Processes and Therapeutics III: Hematology/Oncology. Cr. 2
Prereq: admission to Pharm.D. program. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs:
hematology and oncology. Material fee as indicated in the Schedule of Classes.

6640  Disease Processes and Therapeutics IV: Psychiatry/Neurology. Cr. 2
Prereq: admission to Pharm.D. program. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: psychiatry and neurology. Material fee as indicated in the Schedule of Classes.

6650  Disease Processes and Therapeutics V: Gastroenterology/Endocrinology. Cr. 2

6660  Disease Processes and Therapeutics VI: Nephrology/Fluid and Electrolytes. Cr. 1-3
Prereq: admission to Pharm.D. program. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: nephrology and fluid electrolytes. Material fee as indicated in the Schedule of Classes.

6670  Disease Processes and Therapeutics VII: Rheumatology, Pediatrics and Patient Assessment. Cr. 2

6680  Disease Processes and Therapeutics VIII: Immunology/Pulmonary/Toxicology. Cr. 2
Prereq: admission to Pharm. D. program. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: immunology, pulmonary, and toxicology. Material fee as indicated in the Schedule of Classes.

6710  Advanced Pharmacotherapeutics: Surgery. Cr. 2
Prereq: B.S. in Health Sciences with concentration in pharmaceutical science. Advanced course in management of conditions encountered in surgical patients. Emphasis on perioperative assessment and optimization, pharmacotherapeutic and nutritional considerations, and management of surgical patients with complications and disease states.

6720  Pharmacotherapeutics of Diabetes Mellitus. Cr. 2
Prereq: PHA 4140. Multidisciplinary course. Knowledge and skills required to effectively manage patients with diabetes.

6860  Principles of Pediatric Pharmacy. Cr. 2-3
Prereq: last professional year, graduate, or graduate professional standing. Common pediatric problems and diseases including poisonings, cystic fibrosis, sickle-cell anemia, placental transfer of drugs and teratology.

PHARMACY STUDENT, ALUMNI ACTIVITIES

The College has a Chapter of the Academy of Students in Pharmacy (ASP), an affiliate of the American Pharmaceutical Association (APhA). The purpose of ASP is to encourage an early respect for pharmacy as a profession, and to promote student activities on a professional level. The Chapter accomplishes these goals by supporting professional functions at the College, by encouraging student attendance at local, state, and national conventions, and by promoting membership in professional associations.

A chapter of the Student National Pharmaceutical Association (SNPhA) was established at Wayne State University in 1976. The purpose of this organization is to plan, organize, supplement and coordinate a comprehensive program to improve the health, educational and social environment of minority groups in the United States; to aid both individuals and families in achieving a rich sense of dignity and self-respect. SNPhA hopes to provide a greater opportunity by which health-oriented minority students can achieve greater self awareness and a larger representation in colleges and universities of the United States.

The Alpha Chi Chapter of Rho Chi is the national honor society of pharmacy with a fundamental objective of promoting the advancement of the pharmaceutical sciences through the encouragement and recognition of academic excellence. High standards of scholarly attainment are required for selection to membership. Students ranking in the top twenty percent of the class and having at least a 3.0 g.p.a. are eligible for selection, which takes place in the beginning of the second and third professional years (P2 and P3).

The Arab-American Pharmacy Student Organization (AAPS) is a non-profit organization founded in 1999 by a promising new generation of pharmacy students. The mission of AAPS is to prepare members to be pharmacy professionals who provide and promote patient-oriented pharmaceutical care, and the promotion of the pharmacy profession among the Arab-American public.

Pharmaceutical Fraternities

The following national professional pharmaceutical fraternities maintain active chapters at the College: Kappa Psi, Phi Delta Chi, and Lambda Kappa Sigma.

Kappa Psi Fraternity (Mu Omicron Pi Chapter) is the largest and oldest professional fraternity in pharmacy with over 100 years experience in assisting the pharmacy student to grow professionally and socially. Kappa Psi is a training ground of leadership and maintains resident housing, study accommodations, and recreational facilities.

Lambda Kappa Sigma (Omicron Chapter) is an international professional fraternity that promotes women in pharmacy and promotes professionalism within the College. Through publications, meetings and conventions, members maintain the ties of good fellowship and understanding.

Phi Delta Chi Pharmacy Fraternity (Alpha Eta Chapter) was formed in 1883 to aid its members to become part of the profession. The objectives of Phi Delta Chi include the advancement of the science of pharmacy, the fostering of a fraternal spirit among its members, and the development of projects to aid the patient and the health care system.

Pharmacy Alumni Association

The WSU Pharmacy Alumni Association was established to advance pharmacy programs of the College. The Association fosters a professional spirit and promotes mutual improvement among alumni, as well as supporting College endeavors through seminars, scholarships, and tutorial programs offered to students.

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ACADEMIC REGULATIONS

For complete information regarding academic rules and regulations of the University, students should consult the section beginning on page 5. The following additions and amendments pertain to pharmacy students.

For purposes of these academic rules and regulations, for the Faculty of Pharmacy, the following definitions apply:

1. Professional course means any course required in the Pharm.D. curriculum and any course approved for professional elective credit and elected by the student for that purpose.

2. Satisfactory grade means a grade of 'C' or above, or a grade of 'S.'

3. Unsatisfactory grade means a grade of 'C-minus' or below 2.0 grade points, or a mark of 'X' or unauthorized 'W.' Marks of 'X' or marks of 'W' which have not been authorized will be treated as an 'E.'

4. Probation means a restricted status in the program (see below).

5. Dismissal from the program means that the student may no longer register in the program, or elect professional course work. Continued registration in the University requires that a Change of Status to another program be effected.

Academic and Professional Progress

The Faculty of Pharmacy expects its students to develop professional competence and to satisfy the same high standards of exemplary character, appearance, and ethical conduct expected of professional pharmacists.

To merit confidence and esteem, both personally and in the health care professions, appropriate dress and demeanor are expected of each student in the academic and professional program in pharmacy. The Committee on Academic and Professional Progress (CAPP) reviews student performance regularly and makes decisions concerning probationary status. A student may be dismissed from the college at any time for an unsatisfactory academic or professional record, for irresponsible attendance, or other failures to diligently pursue the academic and professional program.

Outside Employment

The undergraduate curriculum has been arranged with the presumption that the student will devote full time and energy to the program. Pharmacy internship and other pharmaceutical employment is recognized as an integral part of the academic and professional growth of the pharmacy student. The student, however, is responsible for maintaining the appropriate balance between such activity and satisfactory achievement in the classroom.

Attendance

Regularity in attendance and performance is necessary for success in college work. At the beginning of each course the instructor will announce the specific attendance required of students as part of the successful completion of the course.

Course Elections Policy

The program must be elected on a full-time basis, following the curriculum as outlined in this bulletin, unless specifically directed otherwise by the Committee on Academic and Professional Progress, and/or the Faculty.

No course may be elected unless a satisfactory grade has been earned in each of the course prerequisites.

Registration to audit a course, or for courses elected on a Passed-Not Passed basis, is permitted only for elective credits in excess of the minimum degree requirements, or by guest or post-degree students.

Leaves of Absence

A leave of absence may, and should, be requested by a student when personal circumstances interfere with the student's ability to devote sufficient time to academic pursuits to assure reasonable expectations of success. A leave of absence is requested from and granted by the Dean in consultation with the CAPP. If a student requests and is granted an immediate leave of absence during a term, the student must withdraw from all courses enrolled in for that term.

A leave of absence must be requested no later than the end of the twelfth week of the term, or in the case of courses not offered over a traditional semester, prior to completion of seventy-five per cent of the course. Students wishing to request a leave of absence should fill out an Academic Exception Request Form (available from the College's Office of Enrollment Management) and have the form signed by their faculty advisor as well as by the Chairperson of the Department of Pharmacy Practice or Pharmaceutical Sciences prior to forwarding to the Dean for review.

A student who takes an unauthorized leave of absence will be considered to have voluntarily withdrawn from the program and may be permitted to return only upon the recommendation of the Admissions Committee in consultation with the CAPP.

Time Limitations

The program must be completed within six calendar years of admission unless an extension is granted by the Committee on Academic and Professional Progress (extensions are appropriate in circumstances such as a delay required to repeat a course preceding or following an authorized leave of absence or an authorized leave of absence that extends beyond one year).

Students who are delayed in their progress by reason of academic failure and/or leaves of absence beyond the six-year limit may be required to repeat and/or take additional courses in order to assure their graduation with appropriate preparation for contemporary professional practice; such determination will be made by the CAPP in consultation with appropriate faculty.

Minimum Grade Requirement

No professional course in which an unsatisfactory grade is earned will be counted for degree credit in this program unless repeated for a satisfactory grade.

Grade Appeals

Following is the grade appeals policy in the Eugene Applebaum College of Pharmacy and Health Sciences:

At the beginning of each term the instructor is to inform students (in writing where feasible and appropriate) of the criteria used in arriving at grades for the class, including the relative importance of prepared papers, quizzes and examinations, class participation, and attendance. Where student performance in other practical and structured activities is relevant in evaluating professional competency, criteria used in such evaluations should be stated. Written materials should be graded in a timely manner and such materials, together with comments and an explanation of grading criteria, are to be made available to students by appropriate means. Students should be encouraged to discuss with the instructor any class-related problems.

Instructors are expected to evaluate student work according to sound academic standards. Equal demands should be required of all students in a class (although more work is expected from graduate students than from undergraduates), and grades should be assigned without departing substantially from announced procedures.

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It is the instructor’s prerogative to assign grades in accordance with his/her academic/professional judgment, and the student assumes the burden of proof in the appeals process.

Grounds for appeal are: (1) the application of non-academic criteria in the grading process, as listed in the University’s Non-Discrimination and Affirmative Action Statute: race, color, sex, national origin, religion, age, sexual orientation, marital status, or handicap; (2) sexual harassment; or (3) evaluation of student work by criteria not directly reflective of performance relative to course requirements.

This policy does not apply to allegations of academic dishonesty. Academic dishonesty matters should be addressed under the Student Due Process Statute (see ‘Academic Dishonesty,’ below.)

Questions regarding grades, whether a grade on an individual course component or a final grade, properly should be directed to the instructor for resolution. The formal appeal of the grade in question must be initiated in writing within twenty-one calendar days following the student’s receipt/knowledge of the grade (for example, return of marked paper, posting of marks, official report of grades). The instructor and each appeal officer in the College shall respond in writing within ten calendar days. Failure of the instructor or any appeal officer to respond within ten days of the formal written appeal entitles the student to proceed to the next level of appeal. In no case should there be any assumption that a failure to respond at any level signifies a granting of the appeal.

If an appeal is not resolved at the instructor’s level, further appeals may be directed to the departmental chairperson. If the departmental chairperson agrees with the instructor’s determination, the student may appeal, upon the same bases, to the Dean of the College. If the position of the student is upheld, a recommendation to the instructor that a ‘Change of Grade’ be effected may be made. If the instructor refuses and there is, in the opinion of the Dean, evidence that the instructor has been arbitrary or capricious in the grade decision, appropriate administrative procedures may be initiated and an administrative ‘Change of Grade’ may be effected.

Probation
Any student who earns an unsatisfactory grade in a professional course will be placed on professional probation until the course is satisfactorily repeated or the student dismissed from the program.

Any student who is on probation may not hold student elective or professional course work in a single term. Unsatisfactory grades count towards this cumulative total even if a satisfactory grade was earned upon repetition of the course(s).

Dismissal from the Program
A student will be dismissed from the program for the following reasons:
A. Failing to earn a satisfactory grade when repeating professional course.
B. Earning unsatisfactory grades in seven or more credits of professional course work in a single term.
C. Accumulating unsatisfactory grades in ten or more credits of professional course work. Unsatisfactory grades count towards this cumulative total even if a satisfactory grade was earned upon repetition of the course(s).
D. Inability to complete the program within the time limitations outlined above unless granted an extension by the CAPP or the Faculty.
E. Failing to meet any special conditions required by the CAPP or the Faculty for the student’s continuation in the program.

Academic Review Process
If, upon notification of probation or dismissal, it appears that the action was based on incorrect information or that these academic policies and procedures were not appropriately applied, the Chairperson of the CAPP should be immediately notified in writing on the form provided, so that the action can be reviewed. Extenuating personal circumstances will only be considered in cases involving dismissal and/or an extension of the time limitation. Written notice of the CAPP determination will be promptly provided.

Following notice of the decision of CAPP, the student may request a review by the Dean. Following a final decision by the Dean, a procedural review may be sought from the Provost.

Note that this academic review process does not apply to grades. The CAPP will not review the assignment of grades within a course. All appeals regarding grades must follow the procedures described in the ‘Grade Appeals’ section, above.

Readmission Following Academic Dismissal
Applications for readmission from students who have been dismissed from the program for academic reasons will only be considered when the applicant has earned a Bachelor of Science or higher degree in one of the physical or life sciences (biology, chemistry, or physics) subsequent to the dismissal.

If a readmission is granted, the student may be required to repeat some or all of the previously completed professional courses, if the material covered in the courses has changed to the extent that the student’s preparation has become outdated; such determination will be made by the Committee on Academic and Professional Progress in consultation with the Admissions Committee and appropriate faculty.

Readmitted students will be required to complete all requirements of the curriculum in effect at the time of readmission.

This policy applies to any students excluded at the end of the Fall term 1989 and thereafter.

Student Conduct
Every student is subject to all regulations set forth by the University, the College, and the Faculty of Pharmacy, governing student activities, student behavior, and in use of their facilities. The University, College, and Faculty have the responsibility of making these regulations available and it is the student’s responsibility to become thoroughly familiar with all regulations and to seek any necessary clarification. Questions and concerns regarding regulations should be brought to the appropriate faculty member and/or the Dean’s office.

There are obligations inherent in registration as a student in the College. Students entering the profession of pharmacy are expected to have the highest standards of personal conduct so as to be a credit to themselves, the College, the University, and the profession. When there are reasonable grounds to believe a student has acted in a manner contrary to ethical standards, the law, or mores of the community, such student may be disciplined. This discipline may include suspension or dismissal from the program due process in accord with published policies.

Academic Dishonesty
In any instance of academic dishonesty occurring in any course offered by the Eugene Applebaum College of Pharmacy and Health Sciences, as defined in section 3 of the University Due Process Statute, the provisions of Section 10.1 of the Statute will be implemented as follows:

The grade for the course will be reduced to an ‘E.’ In addition, charges may be filed, as provided for in Section 10.2 of the Statute, which may lead to further sanctions up to and including expulsion from the College and/or University.
FINANCIAL AID, SCHOLARSHIPS, LOANS, and AWARDS

Students in good academic standing may apply directly for federal financial aids (both scholarship and/or loan programs) at the University Office of Scholarships and Financial Aid, Welcome Center.

Federal Financial Aid awards are available to pharmacy students who demonstrate exceptional financial need as defined by the federal government. Contact the Office of Scholarships and Financial Aid for further information.

Exceptional Financial Need Pharmacy Scholarship: Award open to students in pharmacy who demonstrate exceptional financial need as defined by the Federal Government. Contact Office of Scholarships and Financial Aid.

Additionally, the College offers private scholarship and short-term loan funds for students. Students in good academic standing enrolled in the pharmacy curriculum of the College may apply for these funds by completing the Pharmacy Financial Assistance Application form that can be obtained from the College.

Private Scholarships: Information about privately-funded pharmacy scholarships that are administered outside of the College and the University is available from the College. Deadlines for special interest scholarships vary.

Private Scholarships and Awards

Private scholarships are awarded to students in good academic standing, based on recommendations from faculty and criteria determined by the contributors. Based on recommendations from faculty and students, awards are made for outstanding achievement.

American Pharmaceutical Association (APhA) McNeil Mortar and Pestle Dean's Award: A distinctive replica of an antique Revolutionary War mortar and pestle is awarded annually to the graduating student who, in the judgment of the faculty, exhibits exceptional interest, aptitude, and achievement in pharmaceutical administration. The student is eligible for a competitive $2000 scholarship.

American Pharmaceutical Association (APhA) / 3M Pharmaceuticals Partner for a Healthier Community Scholarship: A $500 scholarship that recognizes one pharmacist and one full-time pharmacy student in each of the eight APhA/ASP regions who provide leadership and service in the delivery of patient education-based health services programs and are members of APhA. Selection is made by APhA/3M. Application deadline is January 1.

American Pharmaceutical Association / Academy of Students of Pharmacy (APhA/ASP) Senior Recognition Certificate: A framed certificate of commendation is issued annually by the ASP to the graduating student who, upon recommendation of the adviser and an APhA member, has contributed most in developing membership and encouraging participation in the activities of the student chapter of the College.

American Society of Health System Pharmacists (ASHP) Student Leadership Certificate is given to a second professional year pharmacy student who has demonstrated unusual personal and professional development, strong involvement in professional organizations, academic excellence and leadership, and who ranks academically in the upper half of the class.

Fred W. Arnold Endowed Pharmacy Scholarship: An award of $500 is made to a pharmacy student in recognition of achievement in the pharmacy program.

CVS/pharmacy Award: $1000 and a commemorative plaque is awarded annually by CVS/pharmacy to a graduating student in recognition of superior achievement in community pharmacy practice.

Sidney Barthwell (Alumnus) Pharmacy Scholarship: $1000 awarded to an African American pharmacy student with desirable qualities of character and leadership.

Alfred Berkowitz Pharmacy Scholarship: An award of $500 is matched with $500 from the College account for a total of $1000 for each student. This scholarship was established to encourage continued progress and to provide financial assistance to students in the College. The scholarship is awarded to students with financial need who demonstrate scholastic achievement and qualities of leadership.

Bristol Myers Squibb Pharmacy Award: An appropriate book is awarded annually to the baccalaureate student who, in the judgment of the faculty, shows the greatest professional growth and excellence in the clinical curriculum. Supported locally by Rich McFarland.

Bristol Myers Squibb Doctor of Pharmacy Clinical Award: An appropriate book is awarded annually to a Doctor of Pharmacy candidate who, in the judgment of the faculty, has shown overall excellence in the clinical practice component of the curriculum. Supported locally by Rich McFarland.

Nettie and Paul C. Deutch (Alumni) Education Resource Endowed Pharmacy Scholarship: Scholarships of $1000 are awarded to one or more students to recognize scholarship achievement, encourage continued progress, and provide financial assistance. Recipients must have completed four academic courses as a pharmacy student with a minimum 3.0 g.p.a. This award is intended to help students in financial need who are not eligible for federal, state, or other governmental financial educational assistance.

Paul C. and Nettie Deutch Scholarship: Scholarships of $1000 are awarded to pharmacy students who have completed a minimum of four academic courses in the professional program with a minimum grade point average of 3.0. The applicant must demonstrate financial need.

Bernard Thomas Downs Pharmacy Scholarship: This $1000 scholarship was established to assist African American second, third or fourth professional year full-time undergraduate pharmacy students. Recipients are selected on the basis of scholastic achievement with a minimum 2.7 overall grade point average, with qualities of character, leadership, and financial need.

Melvin F. Dunker Award: A distinctive plaque and $100 is presented to recognize the achievements of a graduating pharmacy student who through diligent, hard work has completed degree requirements having overcome a handicap.

Facts and Comparison Pharmacy Award of Excellence in Clinical Communication: An annual award of copies of Drug Facts and Comparison, American Drug Index, and Professional’s Guide to Patient Drug Facts, and a set of marble bookends is presented to a graduating student in recognition of high academic achievement and outstanding clinical communication skills, who ranks academically in the top twenty-five per cent of his/her class.

John Hellman Endowed Pharmacy Scholarship Fund: Established by the estate of John Hellman, an award of $2500 is made to a Wayne State pharmacy student, on admission to the professional pharmacy program, based on merit and completion of all pharmacy prerequisites at Wayne State University. The scholarship is renewable when student maintains an appropriate g.p.a.

Barbara Jewett Endowed Occupational Therapy Awards are given in the following categories: 1) the Honor Graduate Award recognizes the senior student who, upon completion of his/her academic program, has attained the highest scholarship in the senior class; 2) Chairperson’s Awards are presented to those senior students who, while in the professional program, demonstrate outstanding accomplishments in occupational therapy scholarship, leadership, or professional interest; 3) a Scholarship Award is presented by the W.S.U.
Occupational Therapy Alumnae Association to a deserving professional student to assist him/her in educational pursuits; 4) a Faculty Award is made to a graduating senior who, while in the professional program, displayed outstanding departmental involvement; 5) awards in the areas of Professional Interest, and Creative Problem-Solving, and to a Part-Time Student.

Jewish Funeral Directors of America Scholarship: Awarded to a student in the Mortuary Science Program for outstanding achievement.

Robert C. Johnson Scholarship: $1000 is awarded to a pharmacy student in the final professional year who has a grade point average of at least 2.8, and has demonstrated leadership, qualities of good character, and financial need.

Kappa Psi Graduate Chapter Award: An engraved plaque is awarded annually by the Detroit Graduate Chapter of Kappa Psi Pharmaceutical Fraternity to the graduating student with the highest scholastic average.

Kappa Psi Pharmaceutical Fraternity Grand Council Award: A distinctive recognition key and certificate are awarded by Kappa Psi Pharmaceutical Fraternity to a member of the Fraternity who attains the highest scholastic average in the College graduating class.

Kmart Pharmacy Endowed Scholarship for Excellence in Community Pharmacy: This award recognizes scholastic achievement and qualities of demonstrated leadership to a full-time pharmacy student with a preference for community pharmacy.

Dick Kuchinsky Scholarship: An award of $300 is made to a pharmacy student entering the second, third or fourth professional year in good academic standing and with demonstrated financial need.

Jack Kutnick (Alumnus) Pharmacy Scholarship: This annual scholarship for graduating pharmacy students was established by alumnus Jack Kutnick to provide a $100 scholarship to a pharmacy student who has demonstrated financial need, scholastic achievement and desirable characteristics of leadership.

Lambda Kappa Sigma Ruth Davies Flaherty Award: A certificate is presented by the Grand Council of Lambda Kappa Sigma International Pharmaceutical Fraternity for Women to a member of the Omicron Chapter of the Fraternity to recognize outstanding chapter loyalty and service.

Lambda Kappa Sigma Ethel J. Heath Scholarship Key: A distinctive honor key is awarded by Omicron Chapter of Lambda Kappa Sigma International Pharmaceutical Fraternity for Women, to each graduating member in good standing who has attained a cumulative scholastic rank academically in the upper ten percent of all candidates eligible for graduation.

Lambda Kappa Sigma Recognition Key: A recognition key is presented by Omicron Chapter of Lambda Kappa Sigma International Pharmaceutical Fraternity when, in the opinion of the Fraternity, a graduating member has displayed distinguished service to the Fraternity and College, and is in good standing academically and professionally.

The Lilly Achievement Award: Upon recommendation of the faculty, a gold medal encased in a plastic mounting is awarded annually by Eli Lilly and Company, to a graduating student for superior scholastic and professional achievement, leadership qualities, and professional attitude.

Macomb County Pharmacists’ Association (MCPA) Pharmacy Scholarship: Award of at least $500, given to a full-time pharmacy student in good academic standing.

Meijer’s Pharmacy Scholarship: $750 is given to a pharmacy student based on academic achievement and demonstrated interest in community pharmacy.

Merck Award: The Merck Index and The Merck Manual, personally embossed, are awarded annually to two or three graduating pharmacy students for outstanding academic achievement.

Michigan Mortuary Science Foundation Scholarship: A competitive scholarship given to mortuary science students for outstanding achievement.

Michigan Pharmacists’ Association (MPA) Dean’s Professionalism Award: This annual award is presented to the graduating student selected by the Dean as most likely to achieve leadership in pharmacy practice and advance the ethics and standards of the profession of pharmacy. Awardee is appointed to the MPA Public and Professional Affairs Committee with a complimentary one-year MPA membership.

Michigan Society of Health-System Pharmacists Award: $100 is given to an undergraduate pharmacy student who has demonstrated interest in hospital pharmacy, significant academic achievement, and professional extracurricular activity.

Barbara J. Henderson Miller Occupational Therapy Scholarship: A competitive scholarship given to occupational therapy students for outstanding achievement.

Mylan Pharmaceuticals Excellence in Pharmacy Award: A distinctive certificate and a subscription to Drug Interaction Facts is presented annually to the graduating baccalaureate pharmacy student who has demonstrated superior proficiency in the provision of drug information services as well as outstanding professional motivation. The recipient must rank academically in the top twenty-five per cent of the graduating class.

National Community Pharmacists’ Association (NCPA) Presidential Scholarship: A $2000 nationally-competitive scholarship, which is based on leadership qualities and academic achievement, awarded by NCPA. Application deadline is in March.

Oakland County Pharmacist Scholarship: An award of $500 and a handsome engraved plaque are presented to a pharmacy student in accordance with established criteria.

Perrigo Pharmacy Award for Excellence in Nonprescription Medication Studies: An award of $200 is presented to a graduating student who has excelled in the non-prescription medication course taught in the first professional year, as well as in the non-prescription medication components of community pharmacy externship.

Pfizer U.S. Pharmaceuticals Outstanding Leader Award: Upon recommendation of the practice faculty, a suitably engraved plaque and $500 is awarded by Pfizer Laboratories to a graduating student who has demonstrated extraordinary leadership abilities.

Pharmacists Mutual Pharmacy Scholarship: $1000 is awarded to a pharmacy student entering either the second, third, or fourth professional year.

Physical Therapy (PT) Scholarship: An award of at least $500 is made to a physical therapy student in Professional Year II or Professional Year III of the program. The recipient is selected by the physical therapy faculty on the bases of academic standing in the professional program, financial need, and extracurricular and service activities. A minimum 3.0 g.p.a. in the professional program is required.

Robert Rembisz Memorial Pharmacy Scholarship: An award of approximately $500 is given to a pharmacy student, in recognition of achievement in the pharmacy program; preference is given to a member of Kappa Psi, Mu Omicron Chapter.

Rite Aid Corporation Endowment Minority Pharmacy Student Scholarship: An award of $1000 given to a minority student entering the senior year. Student must be in good academic standing, committed to practicing community pharmacy, and have exhibited good communication and leadership skills.

Rite Aid Pharmacy, Inc., Intern Scholarship: $1000 is awarded to a graduating Rite Aid intern with the highest scholastic average in the program, to recognize scholastic achievement and to encourage continued progress.
Community pharmacy.

Dedication of the graduating pharmacy students, a suitably engraved plaque is awarded by Roche Pharmaceuticals to a pharmacy practitioner in recognition of outstanding participation in the externship component of the pharmacy curriculum.

Roche ‘Hospital Preceptor of the Year’ Award: Upon recommendation and selection by the first year Pharm.D. class, a faculty member receives the Preceptor of the Year Award for outstanding contribution to the class.

WSU First Year Doctor of Pharmacy Faculty Award: Upon recommendation and selection by the first year Pharm.D. class, a faculty member receives the Faculty of the Year Award for outstanding contribution to the class.

WSU Second Year Doctor of Pharmacy Preceptor Award: Upon recommendation and selection by the graduating year Pharm.D. class, one faculty member receives the Faculty of the Year Award for outstanding contribution to the class.

WSU Third (P3) Professional Year Pharmacy Student Faculty Awards of the Year: Upon recommendation and selection by the graduating class, one or two faculty members receive the Faculty of the Year Award for outstanding contribution to the class.

WSU Second (P2) Professional Year Pharmacy Student Faculty Award of the Year: Upon recommendation and selection by the second professional year class, one faculty member receives the Faculty of the Year Award for outstanding contribution to the class.

WSU First (P1) Professional Year Pharmacy Student Faculty Award of the Year: Upon recommendation and selection by the first professional year class, one faculty member receives the Faculty of the Year Award for outstanding contribution to the class.

Short-Term (Emergency) Loans

Short-term emergency student loans are awarded to pharmacy students in good academic standing. The student is usually obligated to repay the no-interest loan before graduation from the College. For information, contact the Assistant Dean of Students.

Louis Bloch Student Loan Fund: Offers loans to qualified third- or fourth-year professional pharmacy students in good academic standing.

Concord/Wrigley Drugs, Inc., Pharmacy Student Loan: A loan in the amount of $1000 was established by Alan Stotsky and is awarded annually by Concord/Wrigley Drugs, Inc., to a pharmacy student in good standing with an interest in community pharmacy practice. Recipients have the opportunity for reimbursement through an agreement with Concord/Wrigley Drugs, Inc.

G. Oliver Daniel Pharmacy Student Loan: This fund was established by the family of G. Oliver Daniel for the benefit of African American pharmacy students in good academic standing. The loan is intended primarily for fees, books, and supplies, for not more than two academic semesters.

Robert L. Fleischer Memorial Pharmacy Student Loan: This fund was established by friends of the Fleischer family to honor the memory of Mr. Fleischer, a 1933 pharmacy graduate of Detroit Institute of Technology. It provides financial assistance to pharmacy students in good standing for fees, books, and supplies.

Arthur Koorhan Pharmacy Student Loan: Arthur Koorhan is the first recipient of the Harold W. Pratt Award sponsored by the National Association of Chain Drug Stores, Inc. Mr. Koorhan donated the monetary award to the College for loans to pharmacy students who are in good academic standing and need financial assistance for fees, books, and supplies.

Roland T. Lakey Pharmacy Student Loan: A loan fund was established in honor of Dean Emeritus Roland T. Lakey by the Pharmacy Alumni Association, Rho Pi Phi Fraternity, and friends of Dean Lakey. Pharmacy students are eligible for loans from this fund when students have completed twelve credits in the College with a grade point average of at least 2.2.
Bernard J. Levin Pharmacy Student Loan: This fund established in memory of Mr. Levin, a pharmacy graduate of Detroit Institute of Technology, provides financial assistance to pharmacy students in good academic standing for fees, books and supplies.

Mortuary Science Department Loan: This loan was established by Dr. Mary Lou Fritts-Williams and is available to students in good standing.

Physician Assistant Studies Department Loan: This loan was established as an emergency fund for departmental students in good standing.

Burton J. Platt Student Loan: This loan was established as a memorial to Mr. Burton J. Platt in February 1975 and is available to students in good academic standing in the Pharmacy program.

Morris Rogoff Student Loan: The family and friends of Mr. Morris Rogoff, a dedicated alumnus of the College, have established a loan fund in his memory. These funds provide financial assistance for pharmacy students in the undergraduate and graduate programs and are intended primarily for fees, books and supplies.

FACULTY of HEALTH SCIENCES

The Faculty of Health Sciences of the Eugene Applebaum College of Pharmacy and Health Sciences (APHS) represents these academic departments: Clinical Laboratory Science, Mortuary Science, Nurse Anesthesia, Occupational and Environmental Health Sciences, Occupational Therapy, Physical Therapy, and Physician Assistant Studies.

Programs

Clinical laboratory science, nurse anesthesia, occupational and environmental health sciences, occupational therapy, physical therapy, and physician assistant studies are among the health sciences which contribute in vital ways to the practice of medicine and provision of health care. Mortuary science offers students a professional degree program in funeral service education. Pathologists’ assistant and forensic investigation provide important components to medical and criminological research. These fields of study lead to interesting and rewarding careers.

Clinical Laboratory Science: Students in clinical laboratory science learn the scientific principles and theories behind the many laboratory tests performed to aid the diagnosis of disease. During the latter part of their curriculum, they become proficient in the performance of these tests and familiar with the practical aspects of the clinical laboratory. The work of the clinical laboratory scientist is indispensable to effective care of the sick, because results of their analytical work often establish a basis for diagnosis which must be made before medical care can be instituted.

Cytotechnology: Students in the clinical laboratory science—cytotechnology concentration enter a challenging field involving the microscopic inspection and evaluation of slide preparations of various human cells and/or organs. A cytotechnologist practices under the direction of a pathologist in identifying changes in the body’s cells. While the majority of cytotechnologists work in hospitals, graduates are also prepared for positions in research laboratories, private and clinical laboratories, and in cytotechnology education.

Forensic Investigation: This certificate program is designed for students who have obtained a degree in another discipline from an accredited college or university who wish to acquire competence in the area of forensic investigation. This program is not designed to train forensic investigators; rather, its aim is to educate personnel whose professional scope and practice interfaces with the criminal justice system.

Mortuary Science: The program in mortuary science prepares students for a career in funeral service. The curriculum provides the study of the fundamentals of applied biological and physical sciences as background for understanding techniques and procedures applicable to the preparation and disposition of human bodies and to public health and safety measures. Other areas of study include a thorough understanding of the theory and a proficiency in the practice of the technical skills pertinent to funeral service, and the instillation of high standards of ethical conduct required to foster and uphold the dignity of funeral service.

Nurse Anesthesia:* The nurse anesthetist is a specialist who, as a member of a health-care team, is qualified to administer anesthesia to patients for all types of operations under the direction of a physician. The anesthetist is also prepared in the management of cardiopulmonary resuscitation and in the application of modern methods and procedures of respiratory care.

* For specific requirements, see the Wayne State University Graduate Bulletin.
Occupational and Environmental Health Sciences:* The complex industrial environment of today exposes the worker to many physical and chemical factors capable of provoking stress or irreversible damage to health. The Department of Occupational and Environmental Health Sciences offers the Master of Science degree with concentration in industrial hygiene or industrial toxicology.

The profession of industrial hygiene, devoted to the prevention of occupational illness, is founded on the belief that safe and healthy working conditions can be established by proper control of environmental stresses. Industrial toxicology, upon which industrial hygiene is largely based, concerns itself with determining the amounts of potentially toxic substances which may be safely tolerated and the mechanisms by which these substances cause harm.

Engineers, physicians, chemists, physicists, biologists and other scientists will find these disciplines stimulating, with opportunities for research and application continually increasing. The scarcity of well-trained professionals in these fields and the heightened interest of federal, state and local legislators in health problems have resulted in excellent employment prospects for qualified persons with good remuneration and opportunities for advancement.

Occupational Therapy: Undergraduate and graduate education in occupational therapy prepares the student to assume clinician, researcher, educator, and consultative roles that assist individuals who are limited in the ability to perform tasks required in normal routines of daily living: self-care, work, and play/leisure. Students learn theoretical concepts and their application related to the restoration, development, and maintenance of physical, psychological, social, emotional, and cognitive functions. The theory-based curriculum includes instruction in the use of specific evaluative procedures; the application of a wide variety of activities related to daily living tasks, including creative and manual skills; and the procedures for functioning as a member of a health care team. The occupational therapist's goal is to promote meaningful occupations and maximize functional independence in collaboration with the client.

Physical Therapy: Undergraduate education in physical therapy prepares students for the Master in Physical Therapy program. The curriculum, didactic and clinical, provides opportunities for the student to learn basic skills and techniques in evaluation, treatment procedures, and selection of appropriate therapeutic procedures, primarily affecting the neuro-musculo-skeletal system, to meet the needs of the individual. The physical therapist is an integral member of the medical team in the planning, implementation and evaluation of the patient’s health-care program.

Pathologists' Assistant: The pathologists’ assistant program trains personnel to assist the pathologist in the performance of postmortem examinations and in the preparation of surgical specimens for study. Additional training prepares the student to take responsibility for tasks designated by a supervising pathologist such as budgetary, superintendence, and teaching duties.

Physician Assistant Studies:* The mission of the physician assistant studies program is to train highly-qualified physician assistants for primary care in inner-city and other under-served areas of the State of Michigan. The graduate program is a professional health program designed to meet the need for qualified medical professionals; it is two years in length, and classes begin in May of each year.

ACADEMIC REGULATIONS

For complete information regarding academic rules and regulations of the University, students should consult the General Information section of this bulletin, beginning on page 5. The following additions and amendments pertain to health sciences students.

Recommended High School Preparation

Students who plan to enter the University as freshmen should have included in their high school programs at least three years of English, one year of algebra, one year of plane geometry, at least one course in a laboratory science and at least two years of a foreign language. Some programs require additional work in mathematics and science.

Admission to Preprofessional Programs

Preprofessional programs in clinical laboratory science, mortuary science, occupational therapy, and physical therapy are taken in the College of Science and all students must apply for admission to that College, requirements for which are satisfied by general undergraduate admission to the University. The Office of Admissions is located in the University Welcome Center, Wayne State University, Detroit, Michigan 48202; telephone: 577-3577. Admissions counselors are available for personal conferences to aid the prospective student.

Admission to Professional Programs

Each of the Health Sciences programs is limited in the number of applicants that can be accepted. This limitation is created not only by the number of faculty members available, but also by the number of positions available in health care facilities where much of the field work experience is conducted at a 1:1 or 1:2 faculty-to-student ratio.

Students are admitted to the professional program annually. In the sophomore year the student should make application to the program of his/her choice. However, because of special requirements for each program, students are urged to contact the department for counseling and application deadline dates a year before they plan to enter.

For admission to the professional Health Sciences programs, applicants must have acquired a minimum of sixty credits (or their equivalent) and have completed all equivalent preprofessional course and other requirements. Students admitted to the professional program usually have a grade point average of 2.5 (A=4.0) or better.

Although academic achievement is important, personal qualities are considered of equal importance since the students selected will eventually be working as members of a team in the delivery of health care. Therefore, criteria for selection are also based on such qualities as maturity, motivation, knowledge of the profession, ability to communicate, personal integrity and empathy for others. Consequently, evaluations from faculty and academic advisers, as well as a personal interview, are given great weight in the selection of candidates by admissions committees.

Academic Advising

A staff of academic advisers is available in the University Advising Center, 1600 Adamany Library, for students interested in health sciences professions.

Students, during their sophomore year, should confer with the professional program adviser of the health sciences profession of their choice whenever they have questions about degree requirements, academic regulations, course elections, programs of study, or difficulties in their academic work. Course elections are arranged in consultation with the professional program advisers.

* For specific requirements, see the Wayne State University Graduate Bulletin.

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Normal Program Load

The requirements for graduation are based upon a normal program of fifteen credits per semester for eight to ten semesters. Because courses are of varying length, students cannot always arrange programs of exactly fifteen credits; hence the normal load is fourteen to eighteen credits.

Probation

If a student’s work falls below the required cumulative average for professional studies, he/she will be placed on probation. If a student incurs a serious grade point deficiency in a semester, or remains on probation for more than one semester, he/she will not be allowed to re-register in the College unless he/she obtains permission from the Office of the Dean. Such permission will be granted only after an appraisal of the student’s situation and some assurance from the student that the previous causes of failure will not be operative in the proposed program.

Program Probation: A student whose semester grade point average falls below the required average will be placed on program probation. Each student must meet the academic and probationary requirements of his or her program.

Removal of Probation: The student will be removed from probation at the end of any semester in which he/she achieves the average required.

Academic Honesty: Students are expected to abide by the principle of honesty which is fundamental to the life of a scholarly community. If any act of academic dishonesty (cheating or plagiarism) is discovered, the instructor is expected to take appropriate action, which can include one or more of the following: reprimand, repeat of assignment, a failing grade for the assignment, or a failing grade for the course. Serious acts of dishonesty can lead to suspension or dismissal. The instructor will notify the student of the alleged violation and inform him/her of any action being taken. Both the student and the instructor are entitled to academic due process should the instructor’s action be contested.

Further information can be obtained from the College’s Office of the Dean.

Student Conduct

Students are expected to abide by the principle of honesty. Dishonesty in the academic community is a deliberate attempt to deceive the educational process by submitting work which is not the product of one’s own intellect and diligence. Attempts to give a false impression of academic performance may take many forms, such as the unauthorized use of notes, direct copying from another’s examination paper, or collusion between students to exchange information during an examination. Acts of deception may also include plagiarism, or the submission under the guise of personal achievement of any material or idea resulting from unauthorized assistance.

Academic dishonesty or cheating not only tends to destroy an individual’s character and integrity, but also diminishes confidence in the educational system on the part of persons who exert honest effort. Students, faculty, and support staff all have a duty to eliminate dishonesty from the educational system.

A faculty member has inherent responsibility for the academic conduct and moral character of each course he/she teaches. If the teacher suspects academic dishonesty within a class, appropriate steps should be taken to ascertain the facts in the matter, consistent with the rights of the parties involved, before invoking sanctions commensurate with the nature of the offense. A copy of the complete conduct policy is available from the College.

Dean’s List of Honor Students

Full-time students whose grade point averages are 3.7 or above in a given term are eligible for citation for distinguished scholarship. Part-time students are eligible for inclusion in the Dean’s List of Honor Students after each accumulation of twelve credits.

Attendance

Regularity in attendance is necessary for success in college work. Each instructor, at the beginning of the course, will announce attendance requirements.

Student Rights and Responsibilities

The Faculty reserves the right to dismiss at any time a student who does not appear to be suited for the work or whose conduct or academic standing is regarded as unsatisfactory. Students are urged to review the specific policies of their respective department.

BACHELOR’S DEGREE REQUIREMENTS

Specific requirements for the several bachelor’s degrees offered by the Faculty of Health Sciences are enumerated in the departmental sections of this bulletin. Following are general College and University policies governing baccalaureate programs.

University General Education Requirements

For complete description, see page 23.

University Requirement in American Government — see page 23 and page 27.

University Proficiency Requirements in English and Mathematics: All undergraduate students who register for the first time at Wayne State University in Fall Semester 1983 or thereafter will be required to demonstrate proficiency in English and mathematics by the time they have earned sixty semester credits toward a bachelor’s degree. For full particulars of these requirements, see the General Information section of this Bulletin, page 23.

Residence

The last thirty credits of work applicable to the degree, exclusive of credit by special examination, must be completed in an undergraduate college or school of Wayne State University.

Time Limitation

Because of rapid changes in technology and in the methods and concepts of patient care, students in the health sciences programs must complete their preprofessional science credits within the six years just prior to admission to the professional program and must complete their professional program within three years, unless exception is granted by the Department Chairperson. Students who interrupt their academic program will have to apply for reinstatement on an individual basis to have their performance evaluated. They may be required to pass examinations comparable to those given to current students at that level sought for re-entry into the program.

Financial Aid


Alfred Berkowitz Pharmacy and Health Sciences Professions Student Loan Fund: This fund was established by Mr. Alfred Berkowitz in March 1975 to provide financial assistance to needy students in the College.

Outside Employment

The undergraduate curriculum has been arranged with the presumption that students will devote full time and energy to their college and university experience. Students are encouraged to limit their outside
employment in order to benefit from the full complement of academic and cultural opportunities that are a vital part of higher education.

Requirements for Graduation
In addition to the formal academic requirements for graduation, students in the health sciences must demonstrate traits of character, stamina and emotional stability appropriate for work in a health-care field. Students may be required to withdraw from the College when, in the judgment of a committee of the faculty, they are deficient in these qualities so as to make them unsuitable for their chosen profession.  

Graduation with Distinction: See page 34.

Grade Appeals
Following is the grade appeals policy in the Eugene Applebaum College of Pharmacy and Health Sciences:

At the beginning of each term the instructor is to inform students (in writing where feasible and appropriate) of the criteria used in arriving at grades for the class, including the relative importance of prepared papers, quizzes and examinations, class participation, and attendance. Where student performance in other practical and structured activities is relevant in evaluating professional competency, criteria used in such evaluations should be stated. Written materials should be graded in a timely manner and such materials, together with comments and an explanation of grading criteria, are to be made available to students by appropriate means. Students should be encouraged to discuss with the instructor any class-related problems.

Instructors are expected to evaluate student work according to sound academic standards. Equal demands should be required of all students in a class (although more work is expected from graduate students than from undergraduates), and grades should be assigned without departing substantially from announced procedures.

Academic Dishonesty
In any instance of academic dishonesty occurring in any course offered by the Eugene Applebaum College of Pharmacy and Health Sciences, as defined in section 3 of the University Due Process Statute, the provisions of Section 10.1 of the Statute will be implemented as follows:

The grade for the course will be reduced to an ‘E.’ In addition, charges may be filed, as provided for in Section 10.2 of the Statute, which may lead to further sanctions up to and including expulsion from the College and/or University.
in federal, state and local health departments, in industrial or research laboratories and in clinical laboratory science education.

* For specific requirements, see the Wayne State University Graduate Bulletin. The programs offered by the Department of Clinical Laboratory Science utilize the facilities of the School of Medicine, the Faculty of Health Sciences and the pathology departments and clinical laboratories of hospitals affiliated with the Department of Clinical Laboratory Science.

**Bachelor of Science in Clinical Laboratory Science**

The program leading to the Bachelor of Science degree in Clinical Laboratory Science fulfills the requirements for clinical laboratory science education. A graduate from Wayne State University with this Bachelor of Science degree is eligible to take a national certification examination in clinical laboratory science. The degree program consists of a preprofessional curriculum and a professional curriculum, as follows:

The freshman and sophomore years constitute the preprofessional program comprising the liberal arts and science courses taught by the faculty of the College of Liberal Arts and the College of Science.

The junior year begins the professional program and is taught by the faculty of the Department of Clinical Laboratory Science and the School of Medicine.

The senior year may consist of didactic coursework and/or clinical experience in the laboratories in one of the affiliated hospitals.

**Admission**

**Preprofessional:** Students seeking admission to the preprofessional program in the College of Liberal Arts should refer to the admission requirements of the University, page 15. High school prerequisites for applicants pursuing the Bachelor of Science in Clinical Laboratory Science are:

**High school units**

- Biology: 1
- Chemistry: 1
- Algebra: 1.5
- Geometry: 1
- Trigonometry: 0.5

**Recommended:** One to two units of a foreign language, one to two units in advanced English, and computer use skills.

Although the College of Science does not offer course work in the first unit of algebra, some mathematics deficiencies can be eliminated by taking Mathematics 0993 or 0995 (see page 422). Students with NO preparedness in mathematics will have to remedy this deficiency at a high school. Before the first course in college chemistry or college mathematics can be taken, the student must pass a placement test.

A deficiency of any of the above high school units may extend the time required for completion of the courses prerequisite to beginning the professional curriculum in the junior year, or it may restrict the electives which may be taken. Any entrance deficiencies should be made up as early as possible, preferably in the first year.

**PREPROFESSIONAL PROGRAM**

In addition to the completion of the following, both English and Mathematics Proficiency Examinations must be passed prior to admission to the Professional Program. Courses in this program are taken under direction of the College of Science, the College of Liberal Arts, and the College of Nursing.

**First Year**

- BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 4
- CHM 1220 -- (PS) Chem. Structures, Bonding and Reactivity: Cr. 4
- CHM 1230 -- Chemical Principles Laboratory: Cr. 1
- CHM 1240 -- Principles of General/Organic Chemistry: Cr. 4
- CHM 1250 -- General/Organic Chemistry Laboratory: Cr. 1
- MAT 1800 -- Elementary Functions: Cr. 4
- UGE 1000 -- (GE) Information Power: Cr. 1
- ENG 1020 -- (BC) Introductory College Writing: Cr. 4
- SPB 1010 -- (OC) Oral Communication: Basic Speech: Cr. 2-3
- CLS 2080 -- Clinical Laboratory Science Seminar: Cr. 1
- HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4
- HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4
- NUR 1110 or CSC 1000 (or Competency Examination)
  - (CL) Intro. to Computers & Technology: Health Care: Cr. 0-2
  - (CL) Intro. to Computer Science: Cr. 0-3

**Second Year**

- CHM 2220 or CHM 2280
  - Organic Chemistry: Cr. 3
  - Chemical/Analytical Principles: Cr. 3
- CHM 2230 or CHM 2290
  - Preparative Organic Chemistry Lab: Cr. 2
  - Chemical/Analytical Principles Lab: Cr. 2
- ENG 3010 or ENG 3050
  - (IC) Intermediate College Writing: Cr. 3
  - (IC) Technical Communication I (recommended): Cr. 3
- BIO 2200 -- (LS) Introduction to Microbiology: Cr. 4
- PHI 1050 -- (CT) Critical Thinking (or Competency Exam): Cr. 0-3
- STA 1020 -- Statistics: Cr. 3
- HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4
- HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4
- HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4

**Either:**

- BIO 2870 and NUR 2030
  - Anatomy and Physiology: Cr. 5
  - Pathophysiology: Nursing Practice: Cr. 2

  or:

- IHS 3100 and IHS 3200 (recommended)
  - Basic Mechanisms of Human Disease I: Cr. 5
  - Basic Mechanisms of Human Disease II: Cr. 5

**Total credits:** 31-40

**Professional Program Admission:** The junior class is admitted to the professional curriculum in September only. An application for admission to the program must be submitted to the Department of Clinical Laboratory Science by April 15 of the year one wishes to enter the professional program.

The Admissions Committee is composed of clinical laboratory scientists on the faculty and adjunct faculty of the Department of Clinical Laboratory Science. The Admissions Committee will interview and consider for admission all those students who:

1. Have the following cumulative grade point averages by the end of the second semester of the year preceding admission to the professional program:
   (a) 2.5 or greater overall average; and
   (b) 2.5 or greater combined science average (biology, chemistry, computer science, mathematics).
2. Have a grade of ‘C’ or better in ALL preprofessional courses.
3. Have no more than two marks of ‘R’ or two marks of ‘W’ in science courses. (If all courses are withdrawn in a single semester, it counts as one ‘W’.)
4. Will have completed all preprofessional courses (see above) by the end of the summer semester prior to admission to the professional program.
5. Have taken the English Proficiency Examination prior to the beginning of the fall program (test is given during the week preceding the
beginning of each semester; see the University Schedule of Classes for date and time).

6. Submit, in addition to the application, the following:
(a) References (reference forms available in the University Advising Office) from: One employer and one science faculty member (If no employer, two science faculty references may be submitted).
(b) If the student has transferred to Wayne, official transcripts from all former undergraduate schools must be included.

Since the clinical positions are limited, the Admissions Committee must consider each applicant individually. A sound academic background, a familiarity with the profession and its demands, together with a desire to advance the field of clinical laboratory science through research, teaching or service are important factors for consideration. Emotional stability, maturity and the ability to communicate are among the criteria used in considering the student.

The decision of the Admissions Committee will be: (1) Accepted, (2) Denied, or (3) Conditional Acceptance. (If applicants have courses in progress which are prerequisites to the program, acceptance will not be final until satisfactory completion of the requirements.)

All requests for additional information should be addressed to the Department of Clinical Laboratory Science, Eugene Applebaum College of Pharmacy and Health Sciences.

Professional courses and/or professional program admission requirements are subject to change without notification. The curriculum is subject to change due to changes in requirements for entry into professional practice, which may be separate from academic requirements. It is the student’s responsibility to obtain current information regarding the program from the Department of Clinical Laboratory Science.

Degree Requirements
Candidates for the Bachelor of Science in Clinical Laboratory Science must complete 127-128 credits in course work, plus sufficient credits to fulfill the University General Education Requirements not satisfied by either required courses or the student’s choice of electives in the preprofessional program. The distribution of the total credits for the degree will be between the preprofessional program (see above) and the professional program as follows:

PROFESSIONAL PROGRAM

Basic science courses in this program are taken under the direction of the faculty of the Department of Clinical Laboratory Science in cooperation with the faculty of the School of Medicine and staff of affiliated clinical institutions.

Third and Fourth Years
BMB 5010 -- General Biochemistry Lectures: Cr. 2
CLS 5500 -- Principles of Immunology: Cr. 2
CLS 5510 -- Bacteriology: Cr. 2
CLS 5520 -- Virology/Mycology: Cr. 2
CLS 3040 -- Immunohematology: Cr. 2
CLS 3050 -- Hematology Lecture: Cr. 2
CLS 3080 -- Clinical Lab. Methods and Instrumentation: Cr. 3
CLS 3090 -- Professional Practice I: Cr. 1
CLS 3100 -- Clinical Microscopy: Cr. 2-3
CLS 3140 -- Immunohematology Laboratory: Cr. 2
CLS 3150 -- Hematology Laboratory: Cr. 2
CLS 3180 -- Clinical Lab. Methods and Instrumentation Lab: Cr. 1
CLS 3280 -- Introduction to Clinical Chemistry: Cr. 4
CLS 4040 -- Professional Practice II: Cr. 2
CLS 4230 -- Hemostasis: Cr. 2
CLS 4990 -- Directed Study: Cr. 1
CLS 5550 -- Applied Genetics Technology: Cr. 4
CLS 5150 -- Medical Informatics: Cr. 2
CLS 5993 -- (WI) Writing Intensive Course in CLS: Cr. 0
HS, VP, FC, SS, AI, or PL General Education Requirements: Cr. 3-4

Six-Month Clinical Experience
(Second Semester/Fourth Year)

CLS 4000 -- Clinical Hematology: Cr. 5
CLS 4010 -- Clinical Chemistry: Cr. 3
CLS 4020 -- Clinical Blood Bank: Cr. 4
CLS 4030 -- Clinical Microbiology: Cr. 5
CLS 4050 -- Clinical Immunology: Cr. 1
CLS 4990 -- Directed Study: Cr. 1
CLS 5070 -- Clinical Pathology Correlation: Cr. 2

Any student with a semester g.p.a. less than 2.0 is subject to dismissal. The student who receives a final grade of ‘E’ and/or a second ‘D’ in a junior (first professional) or senior year course is automatically dismissed from the program. No student will be admitted to the clinical year with an overall g.p.a. of less than 2.5.

Students who have been dismissed for academic reasons and wish to be readmitted to the clinical laboratory science professional curriculum will have the opportunity to do so only once. Students must receive a ‘C’ or above in all repeated courses in order to continue in the program. The decision to readmit a student will be on a competitive basis and readmission is not guaranteed. If, upon readmission, the student fails to meet the academic standards of this Department he/she will be dismissed and not readmitted any time thereafter.

Any student who has been dismissed for academic reasons during the first admission to the program but has successfully completed clinical laboratory science or cytotechnology coursework with a grade of ‘C’ or better need not repeat these courses upon final readmission. All courses receiving a final grade of ‘D’ or ‘E’ must be repeated. It may be necessary for the student to change status from full-time to part-time in order to repeat the academically substandard courses. If more than one year elapses from the time these courses were successfully completed, and the student is readmitted, it may be necessary to repeat the entire course of study. The faculty reserves the right to recommend repetition of courses for any student who is readmitted to the professional program and, in specific cases, may alter this policy and assign a directed study.

Change of Status: Any student wanting to have their status changed from full-time to part-time must comply with the following guidelines:
1. Request the status change no later than the ninth week of classes from the Department Chairperson.
2. Present a reason or reasons acceptable to this Department as determined by the faculty, realizing that this decision will be final.
3. Continue as a part-time student under the predetermined curriculum as set forth by this Department.
4. Understand that this option may be limited by current and future enrollment; again, the decision of the faculty on this basis is final.

Health and Liability Insurance: Clinical Education is provided throughout the professional program along with didactic courses. A portion of the Senior Year is spent in one or more assignments in selected clinical facilities throughout the metropolitan Detroit area, Michigan and other parts of the country. Patient care involves inherent risk of exposure to potential diseases, particularly bloodborne pathogens, and the risk of possible mishaps in patient care. Therefore, all students are required to maintain health insurance coverage and liability insurance, both of which must be in effect prior to and during all periods in which the student is involved in clinical education. The student is responsible for the cost of these insurances and all other costs (such as travel, meals, living expenses) associated with the clinical education portion of the program.
Residence: See the section above on Academic Procedures for the Faculty of Health Sciences, page 356.

Time Limitation: See the section above on Academic Procedures for the Faculty of Health Sciences, page 356.

Bachelor of Science in Allied Health Sciences — Cytotechnology Concentration

Cytotechnology is a challenging field involving the microscopic inspection and evaluation of slide preparations of various human cells and/or organs. A cytotechnologist practices under the direction of a pathologist in identifying changes in the body’s cells. Microscopic examinations of specially stained slides are made to detect cytologic or nuclear changes of cells which may differentiate healthy cells from those suspected of being cancerous or of having other structural abnormalities. While the majority of cytotechnologists work in hospitals, graduates are also prepared for positions in research laboratories, private and clinical laboratories and in cytotechnology education.

The freshman and sophomore years constitute the preprofessional curriculum with courses taught by the faculty of the College of Science (or equivalent courses at another accredited institution). The junior year begins the professional curriculum and is taught by the faculties of the Department of Clinical Laboratory Science, the College of Science, and the College of Education. The senior year consists of an eleven month clinical experience in the laboratory of an affiliated hospital.

Accreditation: The degree program in cytotechnology is four years in duration, culminating in the Bachelor of Science in Allied Health Sciences with a concentration in cytotechnology. The four-year program fulfills the requirements for cytotechnology education of the National Accrediting Agency for Clinical Laboratory Science in collaboration with the American Society of Cytopathology. A graduate from Wayne State University with an Allied Health Sciences degree with a concentration in cytotechnology is eligible to take a national certification examination in cytotechnology.

Admission

Preprofessional: Students seeking admission to the preprofessional program in the College of Science should refer to the admission requirements of the University as stated on page 15. High school pre-requisites for applicants pursuing the Bachelor of Science in Allied Health Sciences with a concentration in cytotechnology are:

High school units

Algebra: 1.5
Biology: 1
Chemistry: 1
Geometry: 1
Trigonometry: 0.5

Recommended: One to two units of a foreign language, one to two units in advanced English, and computer use skills.

Although the College of Science does not offer course work in the first unit of algebra, some mathematics deficiencies can be made up by taking MAT 0993 or 0995 (see page 422). Students with NO preparedness in mathematics will have to remedy this deficiency at a high school. Before the first course in college mathematics or college chemistry can be taken, the student must pass qualifying examinations in these subjects.

A lack of any of the high school units listed may extend the time required for completion of the courses which are prerequisite to beginning the professional curriculum in the junior year, or may restrict the electives which may be taken. Any entrance deficiencies should be made up as early as possible, preferably in the first year.

PREPROFESSIONAL PROGRAM

Students must pass the required preprofessional courses with a grade of ‘C’ or better.

In addition to the completion of the following, both English and Mathematics Proficiency Examinations must be passed prior to admission to the Professional Program.

Courses in this program are taken under direction of the College of Science, the College of Liberal Arts, and the College of Nursing:

First Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1510</td>
<td>(LS) Basic Life Mechanisms</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>CHM 1220</td>
<td>(PS) Chem. Structures, Bonding and Reactivity</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>CHM 1230</td>
<td>Chemical Principles Laboratory</td>
<td>Cr. 1</td>
</tr>
<tr>
<td>CHM 1240</td>
<td>Principles of General/Organic Chemistry</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>CHM 1250</td>
<td>General/Organic Chemistry Laboratory</td>
<td>Cr. 1</td>
</tr>
<tr>
<td>MAT 1800</td>
<td>Elementary Functions</td>
<td>Cr. 4</td>
</tr>
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</tr>
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<td>ENG 1020</td>
<td>(BC) Introductory College Writing</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>SPB 1010</td>
<td>(OC) Oral Communication: Basic Speech</td>
<td>Cr. 2-3</td>
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</tbody>
</table>

Second Year

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2220</td>
<td>Organic Chemistry</td>
<td>Cr. 3</td>
</tr>
<tr>
<td>CHM 2230</td>
<td>Chemical/Analytical Principles</td>
<td>Cr. 3</td>
</tr>
<tr>
<td>ENG 3010</td>
<td>Preparative Organic Chemistry Lab</td>
<td>Cr. 2</td>
</tr>
<tr>
<td>ENG 3050</td>
<td>Chemical/Analytical Principles Lab</td>
<td>Cr. 2</td>
</tr>
<tr>
<td>BIO 2200</td>
<td>(LS) Introduction to Microbiology</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>PHI 1050</td>
<td>(CT) Critical Thinking (or Competency Exam)</td>
<td>Cr. 0-3</td>
</tr>
<tr>
<td>STA 1020</td>
<td>Statistics</td>
<td>Cr. 3</td>
</tr>
<tr>
<td>HS, VP, FC, SS, AI, or PL General Education Requirement</td>
<td>Cr. 3-4</td>
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<tr>
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<td>Cr. 3-4</td>
<td></td>
</tr>
<tr>
<td>NUR 1110 or CSC 1000</td>
<td>Competency Examination</td>
<td></td>
</tr>
<tr>
<td>ENG 1020</td>
<td>(OC) Oral Communication: Basic Speech</td>
<td>Cr. 2-3</td>
</tr>
<tr>
<td>ENG 3050</td>
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<tr>
<td>Either:</td>
<td>BIO 2870 and NUR 2030</td>
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<td></td>
</tr>
<tr>
<td>Total credits: 30-38</td>
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</tbody>
</table>

Residence: See the section above on Academic Procedures for the Faculty of Health Sciences, page 356.

Time Limitation: See the section above on Academic Procedures for the Faculty of Health Sciences, page 356.

Professional Program Admission: The junior class is admitted to the professional curriculum in the Fall Semester only. An application for admission to the program must be submitted to the Department of Clinical Laboratory Science by April 15 of the year one wishes to enter the professional program. Professional program admission requirements are the same as for the general Bachelor of Science in Clinical Laboratory Science; see page 359. For further information, write: Department of Clinical Laboratory Science, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, Michigan 48202.

Professional courses and/or professional program admission requirements are subject to change without notification. The curricu-
lum is subject to change due to changes in requirements for entry into professional practice, which may be separate from academic requirements. It is the student’s responsibility to obtain current information regarding the program from the Department of Clinical Laboratory Science.

Degree Requirements
Candidates for the Bachelor of Science in Allied Health Sciences with a concentration in cytotechnology must complete 125-126 credits in course work, plus sufficient credits to fulfill the University General Education requirements not satisfied by either required courses or the student’s choice of electives in the preprofessional program. The distribution of the total credits for the degree will be between the preprofessional program (see above) and the professional program as follows:

PROFESSIONAL PROGRAM

Basic science courses in this program are taken under the direction of the faculty of the Department of Clinical Laboratory Science in cooperation with the College of Science and the staff of the affiliated clinical institutions. The third year begins ONLY in September.

Third Year
BIO 2600 -- Cell Biology: Cr. 3
BIO 3070 -- Genetics: Cr. 4
BIO 5630 -- Histology: Cr. 4
CLS 3050 -- Hematology: Cr. 2
CLS 3090 -- Professional Practice I: Cr. 1
CLS 3100 -- Clinical Microscopy: Cr. 2
CLS 3150 -- Hematology Laboratory: Cr. 2
CLS 3380 -- Basic Cytotechnology Technique and Research: Cr. 3
CLS 4040 -- Professional Practice II: Cr. 2
CLS 4490 -- Cytotechnology Technique: Female Genital Tract: Cr. 4
CLS 5150 -- Medical Informatics: Cr. 2
CLS 5593 -- (WI) Writing Intensive Course in CLS: Cr. 0
M S 4150 -- Histochemistry: Cr. 3
HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4

Fourth Year
CLS 4500 -- Cytotechnology Non-Gynecological Technique I: Cr. 13
CLS 4510 -- Cytotechnology Non-Gynecological Technique I: Cr. 16

Bachelor of Science in Allied Health Sciences — Laboratory Science Concentration

The Laboratory Science Program prepares the student for clinical training, cytogenetics training at an affiliate hospital, or further schooling in forensic testing, occupational and environmental health sciences (OEHS), physician assistant studies (PAS), and other graduate programs.

At Wayne State, the freshman and sophomore years constitute the preprofessional curriculum with courses taught by the faculty of the College of Science (or equivalent courses at another accredited institution). The junior and senior year begin the professional curriculum and is taught by the faculties of the Department of Clinical Laboratory Science, the College of Science, and the College of Education. The clinical experience is scheduled post-baccalaureate.

Accreditation: The degree program in laboratory science is four years in duration, culminating in the degree Bachelor of Science in Allied Health Sciences with a concentration in laboratory science.

Admission
Preprofessional: Students seeking admission to the preprofessional program in the College of Science should refer to the admission requirements of the University as stated on page 15. High school pre-requisites for applicants pursuing the Bachelor of Science in Allied Health Sciences with a concentration in laboratory science are:

High school units
Algebra: 1.5
Biology: 1
Chemistry: 1
Geometry: 1
Trigonometry: 0.5

Also Recommended: One to two units of a foreign language, one to two units in advanced English, and computer use skills.

Although the College of Science does not offer course work in the first unit of algebra, some mathematics deficiencies can be made up by taking MAT 0993 or 0995 (see page 422). Students with NO preparedness in mathematics will have to remedy this deficiency at a high school. Before the first course in college mathematics or college chemistry can be taken, the student must pass qualifying examinations in these subjects.

A lack of any of the high school units listed may extend the time required for completion of the courses which are prerequisite to beginning the professional curriculum in the junior year, or may restrict the electives which may be taken. Any entrance deficiencies should be made up as early as possible, preferably in the first year.

PREPROFESSIONAL PROGRAM

Students must pass the required preprofessional courses with a grade of ‘C’ or better.

In addition to the completion of the following, both English and Mathematics Proficiency Examinations must be passed prior to admission to the Professional Program.

Courses in this program are taken under direction of the College of Science, the College of Liberal Arts, and the College of Nursing.

First Year
BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 4
CHM 1220 -- (PS) Chem. Structures, Bonding and Reactivity: Cr. 4
CHM 1230 -- Chemical Principles Laboratory: Cr. 1
CHM 1240 -- Principles of General/Organic Chemistry: Cr. 4
CHM 1250 -- General/Organic Chemistry Laboratory: Cr. 1
MAT 1800 -- Elementary Functions: Cr. 4
UGE 1000 -- (GE) Information Power: Cr. 1
ENG 1020 -- (BC) Introductory College Writing: Cr. 4
SPB 1010 -- (OC) Oral Communication: Basic Speech: Cr. 2-3
CLS 2080 -- Clinical Laboratory Science Seminar: Cr. 1
HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4
NUR 1110 or CSC 1000 (or Competency Examination)
   -- (CL) Intro. to Computers & Technology: Health Care: Cr. 0-2
   -- (CL) Intro. to Computer Science: Cr. 0-3
Total credits: 32-38

Second Year
CHM 2220 or CHM 2280
   -- Organic Chemistry: Cr. 3
   -- Chemical/Analytical Principles: Cr. 3
CHM 2320 or CHM 2290
   -- Preparative Organic Chemistry Lab: Cr. 2
   -- Chemical/Analytical Principles Lab: Cr. 2
ENG 3010 or ENG 3050
   -- (IC) Intermediate College Writing: Cr. 3
   -- (IC) Technical Communication I (recommended): Cr. 3
BIO 2200 -- (LS) Introduction to Microbiology: Cr. 4
PHI 1050 -- (CT) Critical Thinking (or Competency Exam): Cr. 0-3
STA 1020 -- Statistics: Cr. 3
HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4
HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4
Either:
BIO 2870 and NUR 2030
The professional program as follows:

or:

IHS 3100 and IHS 3200

-- Basic Mechanisms of Human Disease I: Cr. 5
-- Basic Mechanisms of Human Disease II: Cr. 5

Total credits: 31-40

Residence: See the section above on Academic Procedures for the Faculty of Health Sciences, page 356.

Time Limitation: See the section above on Academic Procedures for the Faculty of Health Sciences, page 356.

Professional Program Admission: The junior class is admitted to the professional curriculum in the Fall Semester only. An application for admission to the program must be submitted to the Department of Clinical Laboratory Science by April 15 of the year one wishes to enter the professional program. Professional program admission requirements are the same as for the general Bachelor of Science in Clinical Laboratory Science; see page 359. For further information, write: Department of Clinical Laboratory Science, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, Michigan 48202.

Professional courses and/or professional program admission requirements are subject to change without notification. The curriculum is subject to change due to changes in requirements for entry into professional practice, which may be separate from academic requirements. It is the student’s responsibility to obtain current information regarding the program from the Department of Clinical Laboratory Science.

Degree Requirements

Candidates for the degree Bachelor of Science in Allied Health Sciences with a concentration in laboratory science must complete 125-126 credits in course work, plus sufficient credits to fulfill the University General Education requirements not satisfied by either required courses or the student’s choice of electives in the preprofessional program. The distribution of the total credits for the degree will be between the preprofessional program (see above) and the professional program as follows:

PROFESSIONAL PROGRAM

Basic science courses in this program are taken under the direction of the faculty of the Department of Clinical Laboratory Science in cooperation with the College of Science and the School of Medicine. The third year begins ONLY in September.

Third Year

BIO 2600 -- Cell Biology: Cr. 3
BIO 3070 -- Genetics: Cr. 4
BMB 5010 -- General Biochemistry Lecture: Cr. 2
CLS 3100 -- Clinical Microscopy: Cr. 2
CLS 5500 -- Immunology (with lab): Cr. 3
CLS 5510 -- Bacteriology (with lab): Cr. 3
CLS 5993 -- (WI) Writing Intensive Course in CLS: Cr. 0
PHY 2130 or PHY 2170
-- (PS) General Physics: Cr. 3
-- (PS) General Physics: Cr. 4
PHY 2131 or PHY 2171
-- General Physics Laboratory: Cr. 1
-- General Physics Laboratory: Cr. 1
PHY 2140 -- General Physics: Cr. 3
HS, VP, FC, SS, AI, or PL General Education Requirement: Cr. 3-4

NOTE: The sequence PHY 2170-2171 is recommended for students who intend to pursue OEHS, medical school, or PAS studies.

Fourth Year

or:

CLS 3040 -- Immunohematology: Cr. 2
CLS 3050 -- Hematology: Cr. 3
CLS 3080 -- Clinical Lab Methods & Instrumentation: Cr. 3
CLS 3090 -- Professional Practice I: Cr. 1
CLS 3140 -- Immunohematology Lab: Cr. 2
CLS 3150 -- Hematology Laboratory: Cr. 2
CLS 3180 -- Clinical Lab Methods & Instrumentation Lab: Cr. 1
CLS 3280 -- Intro. to Clinical Chemistry (with lab): Cr. 4
CLS 4040 -- Professional Practice II: Cr. 2
CLS 4230 -- Hemostasis (with lab): Cr. 2
CLS 4990 -- CLS Professional Directed Study: Cr. 1
CLS 5150 -- Medical Informatics: Cr. 2
CLS 5520 -- Virology & Mycology: Cr. 2
CLS 5550 -- Applied Genetics Technology (with lab): Cr. 3
CLS 5993 -- (WI) Writing Intensive Course: Cr. 0

Either:

NFS 2030 -- (LS) Introductory Nutrition: Cr. 3
or
CLS elective: Cr. 3

DMC Clinical Experience (Post-Baccalaureate)

CLS 4000 -- Clinical Hematology: Cr. 5
CLS 4010 -- Clinical Chemistry: Cr. 2-4
CLS 4020 -- Clinical Blood Bank: Cr. 4
CLS 4030 -- Clinical Microbiology: Cr. 5
CLS 4050 -- Clinical Immunology: Cr. 1
CLS 4060 -- Clinical Serology: Cr. 1
CLS 4070 -- Special Chemistry: Cr. 4-5
CLS 4008 -- Clinical Coagulation: Cr. 1
CLS 4090 -- Special Microbiology: Cr. 1
CLS 4990 -- Directed Study: Cr. 1
CLS 5070 -- Clinical Pathology Correlation: Cr. 1-2

A Post-baccalaureate CLS Certificate will be awarded upon successful completion of the Clinical Experience.

Health and Liability Insurance: Clinical Education is provided throughout the professional program along with didactic courses. The Senior Year of the program is spent in one or more assignments in selected clinical facilities in the metropolitan Detroit area. Patient care involves inherent risk of exposure to potential diseases, particularly bloodborne pathogens, and the risk of possible mishaps in patient care. Therefore, all students are required to maintain health insurance coverage and liability insurance, both of which must be in effect prior to and during all periods in which the student is involved in clinical education. The student is responsible for the cost of these insurances and all other costs (such as travel, meals, living expenses) associated with the clinical education portion of the program.

Academic Standing — Dismissal and Readmission: For procedures regarding probation and dismissal, students should refer to the paragraphs immediately following the general Bachelor of Science professional program, page 360.

Post-Bachelor’s Certificate in Clinical Laboratory Science

This post-baccalaureate certificate program is designed to provide students with clinical training and necessary course work in the field of clinical laboratory science. The certificate program is structured to assist candidates in obtaining training through an NAACLS-accredited institution. Graduates of the program will receive the post-baccalaureate Certificate in Clinical Laboratory Science and will be eligible to sit for the national registration examination for professional certification.

Admission: The Program is open to graduates of baccalaureate programs in clinical laboratory science/medical technology who have (1) a cumulative grade point average of 2.50 or better overall; (2) a 2.5 or better combined science grade point average (biology, chemistry,
CLINICAL LABORATORY SCIENCE COURSES (CLS)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

2080 Clinical Laboratory Science Seminar. Cr. 1
Offered for S and U grades only. Introduction to clinical laboratory sciences. Opportunities and responsibilities. (F,W)

2990 Preprofessional Directed Study. Cr. 1-3
Prereq: enrollment in pre-clinical laboratory science program. Offered for S and U grades only. Independent study under faculty supervision. (F,S)

3020 Hematology Lecture and Laboratory. Cr. 2-4
Prereq: junior in clinical laboratory science program or consent of instructor. Basic study of blood-forming organs and components of blood; explanation of basic hematological procedures. Material fee announced in Schedule of Classes. (F)

3040 Immunohematology Lecture and Laboratory. Cr. 2-4
Prereq: junior in clinical laboratory science or consent of instructor. Principles of immunology and theory of procedures employed in the clinical blood bank. Survey of the organization and operation of a blood bank. Material fee announced in Schedule of Classes. (S)

3050 Hematology. Cr. 2-3
Prereq: CLS 3020. In-depth study of blood and blood forming organs (normal and pathological) from the standpoint of interpretation and diagnosis. (W)

3070 Urinalysis/Hemostasis. Cr. 2-3
Prereq: junior in clinical laboratory science or consent of instructor. Theory of diagnostic analysis of urine and other body fluids; correlation of test results with pathophysiology. Theoretical information on hemostasis, coagulation and fibrinolysis. Lecture and laboratory. Material fee as indicated in the Schedule of Classes. (F)

3080 Instrumentation Lecture and Laboratory. Cr. 2-4
Prereq: junior standing in clinical laboratory science or consent of instructor. Introduction to fundamental laws of electronics, the theoretical basis of instrument design, and quality control in laboratory testing. Application of instrumental methods, including spectrophotometric, fluorometric, electroanalytical, and chromatographic methods to the clinical laboratory. Material fee as indicated in the Schedule of Classes. (W)

3090 Professional Practice I. Cr. 1
Prereq: junior in clinical laboratory science program. LIS systems, computers in laboratories, pre- and post-professional practice, ethics, critical thinking in the lab. (W)

3100 Basic Techniques/Microscopy. Cr. 2-3
Prereq: junior in clinical laboratory science program or consent of instructor. Specimen collection, preparation, and examination of urine and other body fluids such as spinal fluid, semen, and synovial fluid. Review of parasitology and laboratory methods for examination. Interdisciplinary case studies involving methods selection and interpretation of findings. Material fee as indicated in the Schedule of Classes. (S)

3150 Hematology Laboratory. Cr. 2
Laboratory exercises relative to in-depth study of blood and blood forming organs; normal and pathological blood forms. Material fee as indicated in the Schedule of Classes. (W)

Student Aid

The University offers opportunities to students in need of financial assistance to meet the expenses of their education. Information about scholarships and loans is available from the University Office of Scholarships and Financial Aid, located in the Welcome Center.

The Medical Technology/Clinical Laboratory Science Alumni Association has established a scholarship fund available to junior year full-time clinical laboratory science and cytotechnology students. Information is available through the Clinical Laboratory Science Department secretary.

The Dr. Alexander Wallace III Scholarship is available to a junior year clinical laboratory science or cytotechnology student. For further information, contact the Department secretary.

Medical Technology/ Clinical Laboratory Science Alumni Association

Organized in 1978, the Medical Technology/Clinical Laboratory Science Alumni Association was established for the purpose of developing and maintaining rapport between the graduates and the faculty of the Department of Clinical Laboratory Science. In addition to being supportive of the University, one of the main functions of the Alumni Association is to provide continuing educational opportunities and social activities for alumni, faculty and students of the Clinical Laboratory Science Department.

Student Professional Activities: All CLS students may participate in the local, state and national organizations of the American Society for Clinical Laboratory Science. Cytotechnology students have the opportunity to join the national CT Society during their senior year.
Prereq: senior standing in clinical laboratory science program. Bio-
4010 Basic Cytology. Cr. 2-4
4010 Clinical Chemistry. Cr. 2-4
4020 Clinical Blood Bank. Cr. 1-4
4040 Professional Practice II. Cr. 2
4050 Clinical Immunology. Cr. 1-2
4060 Clinical Serology. Cr. 1
4070 Special Chemistry. Cr. 4-5
4080 Clinical Coagulation. Cr. 1
4090 Special Microbiology. Cr. 1
4230 Hemostasis/Special Hematology. Cr. 2-3
4500 Cytotechnology Non-Gynecologic Technique II. Cr. 1-4.7
4510 Bacteriology. Cr. 3
4550 Molecular Diagnostics. Cr. 4
4250 Laboratory Techniques. Cr. 2-4
4290 Cytotechnology Technique: Female Genital Tract. Cr. 4
4490 Cytotechnology Technique: Female Genital Tract. Cr. 4
4590 Professional Directed Study. Cr. 1-8
4990 Professional Directed Study. Cr. 1-8
5010 Medical Informatics. Cr. 2
5150 Medical Informatics. Cr. 2
5330 Clinical Cytogenetics. Cr. 1-10 (Max. 30)
5350 Principles of Immunology. Cr. 2
5500 Principles of Immunology. Cr. 2
5510 Bacteriology. Cr. 3
5520 Virology and Mycology. Cr. 2
5550 Molecular Diagnostics. Cr. 4

Eugene Applebaum College of Pharmacy and Health Sciences 365
sequencing. Material fee as indicated in the Schedule of Classes.

5993  (WI) Writing Intensive Course in Clinical Laboratory Science. Cr. 0
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: any 3000-level or higher course in the department and written consent of chairperson. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Course must be elected in conjunction with designated corequisite; see Schedule of Classes for corequisites available each term. Satisfies University General Education Writing Intensive Course in the Major requirement.

6020  Laboratory Quality. Cr. 1-2
Laboratory standards, regulatory agencies and requirements, OSHA, MIOSHA, quality assurance standards and applications, continuous improvement.

6660  Leadership Skills. Cr. 2
Case studies and tutorial format for developing leadership skills in a science laboratory.

MORTUARY SCIENCE

Office: 5439 Woodward Ave.; 577-2050
Interim Chairperson: Peter D. Frade

Associate Professor
Peter D. Frade

Assistant Professor
E. David Ladd (Clinical)

Part-Time Instructors and Instructional Assistants
Karen Apolloni, Gail Bentley, Paula Bober, Leena Budev, Bryce Denison, Sharon Gee, Roger Husband, Rob Justice, Dennis Paulson, Paul Taylor, Daniel Thomas, Benjamin True, Michael Wilk, Robert Wilk, Robert Will, Thomas E. Zaremba, Stamatina Ziemba

Adjunct Professor
David Grignon

Adjunct Associate Professors
Gilbert Herman, Sawait Kanluen, Edward J. Kerfoot, Eugene V. Perrin, Nilsa Ramirez

Degree Programs

BACHELOR OF SCIENCE in Mortuary Science

BACHELOR OF SCIENCE in Pathologist’s Assistant

POST-BACHELOR’S CERTIFICATE in Forensic Investigation

The Mortuary Science Department offers programs designed to enable public health personnel to deal effectively with personal and practical matters attendant on death and dying.

The degree Bachelor of Science in Mortuary Science meets the requirements for licensure in Michigan, and meets or exceeds the licensure requirements of most other states. The program is accredited by the American Board of Funeral Service Education, 38 Florida Ave., Portland ME 04103; 207-878-8538; Fax: 207-797-7986.

The Department also offers the degree Bachelor of Science in Pathologist’s Assistant, which is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 8410 W. Bryn Mawr Ave., Suite 670, Chicago IL 60631-3415; 773-714-8880.

The services and facilities characteristic of a major university are available to students in this program. In addition to its own full-time faculty, the instructional staff is selected from the various departments of the University as well as from the core of experienced practitioners in the community. The professional programs offer extensive opportunity to participate in clinical/practicum training.

Prospective students should direct inquiries to: Department of Mortuary Science, 5439 Woodward Ave., Detroit, Michigan 48202; telephone: (313) 577-2050; Fax: (313) 577-4456.
ACADEMIC REGULATIONS

For complete information regarding academic rules and regulations of the University and of the Faculty of Health Sciences, students should consult the sections in this bulletin, page 5 and page 356. The following additions and amendments pertain to the Department of Mortuary Science.

Attendance

Students are expected to adhere to departmental attendance requirements. Anticipated absence from lecture or laboratory classes should be reported to the appropriate faculty member.

Leaves of Absence

Leaves of absence may be granted to students with documented health problems or to those pursuing appropriate educational opportunities outside the college.

Promotion/Dismissal

Evaluation of students is primarily the responsibility of faculty teaching in various programs of the department. Students are evaluated promptly by the primary evaluators, who make recommendations to the Promotions Committee; these recommendations may include: promotion, reexamination, repetition of all or part of the curriculum, interruption or suspension or probation of a student's program, or dismissal.

The Promotions Committee is chaired by the chairperson of the department and consists of nine members: two students plus seven faculty members, to include two teaching faculty of each department program. Student members serve for one year and have full discussion privileges. Their votes are advisory to the committee. The Promotions Committee meets at the close of each semester, as needed.

A student may be excluded from a program for irresponsible attendance and/or irresponsible performance in clinical/practicum assignments. Students in these programs must demonstrate traits of character, stamina, and emotional stability appropriate to the profession. Students may be required to withdraw from the program if, in the judgment of the Promotions Committee, they fail to maintain appropriate standards of conduct and progress.

Questions of suitability for study and practice on other than academic grounds are handled according to the University Guidelines for Assisting Persons with Behavioral Problems.

Students have the right to appeal decisions by direct petition to the Promotions Committee. In the event of such an appeal, the Committee may gather evidence and hear witnesses. The student has the right to be heard by the Committee and has the right to call a reasonable number of witnesses to testify in his/her behalf. The Promotions Committee is the final decision-making body with regard to the promotion process.

Outside Employment

The professional curricula have been arranged with the presumption that students will devote full time and energy to their university responsibilities. Students are thus encouraged to limit outside employment.

Appellate Procedure for Course Grade Review

Following the departmental submission of grades in a professional course area and in the event of a student's objection to the submitted grade, the student is advised to utilize the published grade appeal process of the Eugene Applebaum College of Pharmacy and Health Sciences (College Policy and Procedures No. 01). The appellate procedure should be initiated by directing a letter of request for such a review to the Chairperson, Department of Mortuary Science.

Financial Aid

Students in the Department of Mortuary Science are eligible for the Gordon W. Rose Scholarship as well as other scholarships and loans available to all University students. Inquiries should be directed to the University Office of Scholarships and Financial Aid, located in the University Welcome Center, and/or the Department.

In addition, students enrolled in the third year of the mortuary science program are eligible to apply for scholarships made available by the Michigan Mortuary Science Foundation and the American Board of Funeral Service Education. Inquiries should be directed to the Department.

The application for financial aid from the Office of Scholarships and Financial Aid is January 15. For further information, contact: Office of Scholarships and Financial Aid; telephone: (313) 577-3378.

Vocational Guidance and Placement

Men and women contemplating careers in mortuary science or as pathologists' assistants may take advantage of the Department's and University's counseling services. Every effort is made by the Department staff to acquaint the applicant with the vocational aspects of the professions. Students are assisted in securing part-time employment in funeral homes upon request.

Advanced Placement

Applicants wishing to transfer professional course work from other accredited institutions must submit the catalog description of each course, and a copy of each course syllabus. In addition, applicants may be required to successfully complete with a grade of ‘C’ or better an equivalency examination administered by the Department.

Bachelor of Science in Mortuary Science

The program leading to the Bachelor of Science in Mortuary Science fulfills the requirements for licensure in the State of Michigan and most other states. A graduate from Wayne State University with this degree is eligible to take the International Conference Examination. The degree program consists of a pre-professional and professional component as follows:

Preprofessional Program: This program incorporates course work required to satisfy University General Education Requirements, as well as that required for licensure in the State of Michigan.

Applicants interested in obtaining licensure in states other than Michigan are required to consult with the Department of Mortuary Science prior to admission, for clarification of their course of study, as pre-professional coursework will vary.

Students entering as freshmen and intending to pursue a degree in mortuary science must complete the preprofessional program (see below) offered by the College of Liberal Arts and the College of Science. The admission requirements for these colleges are those for regular undergraduate admission to the University; see page 15.

PREPROFESSIONAL PROGRAM (Minimum sixty credits)

Preprofessional course work must include the following courses, passed with a grade of ‘C’ or better:

Adulting (Economics prerequisite): Cr. 3
Biology (biology/zooloogy/anatomy) (LS): Cr. 6
Chemistry (lecture and laboratory) (PS): Cr. 4
English (composition) (BC) (IC): Cr. 6
Psychology (general/death and dying/gerontology) (LS): Cr. 6
Computer Science (CL): Cr. 3
Speech (public speaking/communications) (OC): Cr. 3
Total credits: 31

Eugene Applebaum College of Pharmacy and Health Sciences 367
In addition, applicants to the professional program must have completed twenty credits from the following:

- Historical Studies (HS) (HIS 1100 or 1200 recommended): Cr. 4
- PHI 1050 -- (CT) Critical Thinking: Cr. 3
- PHI 2320 -- (PL) Introduction to Ethics: Cr. 3
- American Society & Institutions (AI): Cr. 4
- Visual & Performing Arts (VP): Cr. 4
- SS) SOC 2000 or ECO 2010 and 2020: Cr. 3-8
- Foreign Culture (FC): Cr. 3
- UGE 1000 -- (GE) Information Power: Cr. 1
- Credit granted by examination (e.g., CLEP) is acceptable. For information on CLEP examinations, contact: Office of Testing and Evaluation, (313) 577-3400.

**PROFESSIONAL PROGRAM**

**Admission:** The Department will consider for admission applicants who:

1. have completed sixty credits in preprofessional course work as defined in the preprofessional program description above.
2. have an overall cumulative grade point average of 2.5.
3. have been admitted to Wayne State University.
4. have successfully completed the English Proficiency Examination.
5. have successfully completed the Mathematics Proficiency Examination.
6. have submitted a complete application to the Department of Mortuary Science by April 15 of the year one wishes to enter the program.

**Conditional/Probationary Admission:** Applicants to the professional program in mortuary science having at least fifty-two semester credits in science/liberal arts course work with a grade point average of less than 2.5 may, at the discretion of the Departmental Admissions Committee, be admitted on a part-time, conditional basis for the semester of initial registration. A student admitted within this category will be limited to a maximum of fifteen credits in professional course work. The conditional registrant must earn a minimum grade point average of 2.5 to qualify for subsequent semesters of professional program enrollment.

**Physical Examination:** All applicants, including transfer students from Colleges within Wayne State University, are required to submit to the Department the results of a TB test administered within six months preceding their entrance into the program. Immunization against Hepatitis B Virus (HBV) is strongly advised; enrollees declining immunization are required to do so in writing.

**Time Limitation:** Students are strongly encouraged to enroll full-time for three consecutive semesters. Part-time enrollment will be limited to six consecutive semesters.

**Third Year**

**Fall Semester**

- M S 3100 -- Chemistry: Cr. 3
- M S 3300 -- Religions, Values, and Death: Cr. 3
- M S 3500 -- Embalming I: Cr. 3
- M S 3800 -- Funeral Directing: Cr. 4
- M S 3830 -- Psychology of Death and Dying: Cr. 3
- M S 4050 -- Human Anatomy and Physiology: Cr. 3
- Total credits: 19

**Winter Semester**

- M S 3400 -- Mortuary and Business Law I: Cr. 3
- M S 3510 -- Embalming II: Cr. 3
- M S 3600 -- Restorative Art and Modeling I: Cr. 2
- M S 3610 -- Mortuary Management and Administration: Cr. 3
- M S 3840 -- Psychosocial Aspects of Grief: Cr. 2
- M S 4250 -- Medical Microbiology: Cr. 3
- Total credits: 16

**Spring/Summer Semester**

- M S 0999 -- Practicum: Cr. 0
- M S 3410 -- Mortuary and Business Law II: Cr. 3
- M S 3610 -- Restorative Art and Modeling II: Cr. 2
- M S 3760 -- Past and Future Trends in Funeral Service: Cr. 3
- M S 4300 -- Introduction to the Study of Disease: Cr. 2
- M S 5350 -- (WI) Applied Grief Counseling; Aftercare: Cr. 2
- Total credits: 15

**DEGREE REQUIREMENTS:** The candidate for the degree of Bachelor of Science in Mortuary Science must satisfactorily complete, with a grade point average of at least 2.0, a minimum of 120 credits, including the following:

1. Sixty-eight General Education credits as listed in the preprofessional program.
2. Fifty credits in the basic mortuary science professional program curriculum.
3. The Mortuary Science Senior Seminar, M S 5996.

Completion of this program satisfies all departmental subject area group requirements, as well as the University General Education Requirements.

**Michigan State Licensure in Funeral Service**

To become eligible for licensure in the State of Michigan one must fulfill the following educational requirements:

1. Complete two academic years (sixty semester credits or ninety quarter credits) of instruction at an accredited or recognized college or university;
2. Complete an accredited program of academic instruction in mortuary science as defined by the American Board of Funeral Service Education;
3. Pass examinations as determined by the State Board;
4. Fulfill the requirements for resident training.


**Bachelor of Science — Pathologists’ Assistant Program**

The Pathologists’ Assistant program trains personnel to assist the pathologist in the performance of postmortem examinations and in the preparation of surgical specimens for study, as well as to take responsibility for certain tasks delegated by supervising pathologists such as budgetary, superintending, and teaching duties.

**Admission — Preprofessional Program:** Courses in this program are taken under the guidance of the College of Liberal Arts and the College of Science. Students seeking admission to the program in the College of Liberal Arts and the College of Science should refer to the admissions requirements of the University as stated on page 15. Students must pass the required pre-professional courses with a grade of ‘C’ or better.

**Admission — Professional Program:** The junior class is admitted to the professional program in September ONLY. An Application for Admission to the program must be submitted to the Department of Mortuary Science by April 15 of the year one wishes to enter the professional program. Applications for the professional program are available from the Department of Mortuary Science, Pathologists’ Assistant Program Director, 5439 Woodward Ave., Detroit, MI 48202; telephone: (313) 577-2050; Fax: (313) 577-4456.
The Admissions Committee is composed of faculty and graduates of the program. The Admissions Committee will interview and consider for admission all students who:

1. have a cumulative g.p.a. of 2.5 overall, and 2.3 or better in science;
2. have completed all pre-professional courses by the time of admission;
3. have successfully completed the English Proficiency Examination (see page 24);
4. have submitted a complete application to the Department of Mortuary Science by April 15 of the year one wishes to enter the program.

In addition, if the prospective applicant will be transferring to Wayne State, application for admission must be made to the University.

This is a competitive program limited by available clinical teaching affiliations. In reviewing applications, work experience, letters of evaluation/recommendation, science grades, and overall g.p.a. will be considered. Although academic achievement is important, knowledge of the profession, ability to communicate, and personal qualities of maturity, motivation and integrity are equally important. Consequently, evaluations from faculty advisers and employment supervisors as well as personal interviews are given great weight in selection of candidates by the Admissions Committee.

**DEGREE REQUIREMENTS:** The candidate for the degree of Bachelor of Science — Pathologists’ Assistant must satisfactorily complete the preprofessional and professional programs as outlined below, with a grade point average of 2.5 or above. Completion of this program satisfies all Departmental subject area group requirements as well as the University General Education Requirements. Graduates of this program are eligible to sit for the AAPA fellowship examination.

**PREPROFESSIONAL PROGRAM**

**First Year**
- BIO 1500 -- Basic Life Diversity: Cr. 4
- BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 4
- CHM 1020 -- (PS) General Chemistry I: Cr. 4
- CHM 1030 -- General Chemistry II: Cr. 4
- ENG 1020 -- (BC) Introductory College Writing: Cr. 4
- MAT 1800 -- Elementary Functions: Cr. 4
- PHI 1050 -- (CT) Critical Thinking: Cr. 3
- SPB 1010 -- (OC) Oral Communication: Basic Speech: Cr. 3
- Social Science (SS) elective: Cr. 3
- UGE 1000 -- (GE) Information Power: Cr. 1

Total credits: 34

**Second Year**
- BIO 2200 -- (LS) Introductory Microbiology: Cr. 4
- CSC 1000 -- (CL) Introduction to Computer Science: Cr. 3
- ENG 3050 -- (IC) Technical Communication I: Cr. 3
- Historical Studies (HS) elective (HS 1100 or HS 1200): Cr. 4
- Visual and Performing Arts (VP) elective: Cr. 4
- PHI 2320 -- (PL) Introduction to Ethics: Cr. 4
- Foreign Culture (FC) elective: Cr. 4
- American Society and Institutions (AI) elective: Cr. 4

Total credits: 30

**Professional Program:** Courses in this program are taken under the direction of the faculty of the Department of Mortuary Science in cooperation with the School of Medicine and the College of Science. The third year begins only in September.

**PROFESSIONAL PROGRAM**

**Third Year**

**Fall Semester**
- BIO 5630 -- Histology: Cr. 4
- M S 5060 -- Human Anatomy and Physiology: Path. Asst.: Cr. 4
- M S 4100 -- Medical Photography: Cr. 3
- M S 5050 -- Clinical Terminology & Methodology: Cr. 3
- M S 5200 -- Medical Microbiology for Technical Profn.: Cr. 3

**Winter Semester**
- BIO 5610 -- Vertebrate Embryology: Cr. 4
- M S 4150 -- Histochemistry: Cr. 3
- M S 5020 -- Biochemical Basis of Pathophysiology: Cr. 3
- M S 4420 -- Laboratory Management: Cr. 3
- M S 5420 -- Future Trends in Pathology Practice: Cr. 2

**Spring/Summer Semester**
- M S 4200 -- Introduction to Forensic Anatomic Pathology: Cr. 3
- M S 5250 -- (WI) Applied General Pathology: Cr. 4

**Fourth Year**
- M S 4500 -- Clinical Autopsy Pathology: Cr. 6
- M S 4550 -- Clinical Histopathologic Technique: Cr. 3
- M S 4600 -- Clinical Forensic Pathology: Cr. 5
- M S 4650 -- Clinical Surgical Pathology: Cr. 5
- M S 4700 -- Clinical Pathology: Cr. 3
- M S 4800 -- Clinical Photography: Cr. 2
- M S 4850 -- Clinical Academic Pathology: Cr. 6

These courses are taken at facilities affiliated with the Eugene Applebaum College of Pharmacy and Health Sciences.

**Time Limitations:** Students must complete their preprofessional program within six years and their professional program within three years. Students who interrupt their academic program must apply for reinstatement on an individual basis. Examination may be required for readmission.

**Physical Examination:** Prior to clinical rotation, all applicants are required to submit a completed physical examination form to the Department, which must include a complete immunization record, evidence of HBV antibody titre and TB status.

**Scholarship:** Students in this program are subject to high academic and professional standards. A grade of ‘C’ or above is required in each professional course. All didactic course requirements must be completed prior to clinical rotation. Students dismissed for academic reasons seeking readmission to the Pathologists’ Assistant professional program will have the opportunity to do so only once. Decisions to readmit students are made on an individual basis, and readmission is not guaranteed.

**Post-Bachelor’s Certificate in Forensic Investigation**

The Certificate Program in Forensic Investigation is designed for students who have obtained a degree in another discipline from an accredited college or university who wish to acquire competence in the area of forensic investigation. This program is not designed to train forensic investigators; rather, its aim is to educate personnel whose professional scope and practice interfaces with the criminal justice system. The Program is offered by the Department in cooperation with Oakland Community College, Police Evidence and Technology, the offices of the Wayne County Medical Examiner, the Oakland County Medical Examiner, and the Bureau of Alcohol, Tobacco and Firearms (ATF), among others.

**Admission:** The Program is open to graduates of baccalaureate programs in any accredited college or university who have a grade point average of 2.50 or better. Students whose degree is from Wayne State should apply directly to the Department of Mortuary Science; those from other institutions must submit the Application for Under-
graduate Admission (see page 15). All application materials must be received by July 1 for Fall and Winter admission, and by November 1 for Spring/Summer admission.

For information and application forms, contact the Department of Mortuary Science, 5439 Woodward Ave., Detroit MI 48202; telephone (313) 577-2050; Fax: (313) 577-4456.

**CERTIFICATE REQUIREMENTS:** The candidate for the post-baccalaureate Certificate in Forensic Investigation must complete the following program with a grade point average of 2.50 or above and have earned a minimum of eighteen semester credits at Wayne State University.

**Required Courses (taken at Wayne State University):**
M S 4200 -- Introduction to Forensic Anatomic Pathology: Cr. 3
M S 4010 -- Basic Forensic Analysis: Cr. 3
M S 5010 -- Advanced Forensic Analysis: Cr. 2

**Required Courses (taken at Oakland Community College)**
PLS 215.4 -- Ballistics, Firearms and Explosives Identification: Cr. 4
PLS 220 or CRJ 3260
-- Criminal Investigation and Case Preparation: Cr. 4
-- Investigation: Cr. 3
PLS 231 -- Interview and Interrogation Techniques: Cr. 3
NOTE: Courses above designated PLS are available only at Oakland Community College; CRJ 3260 is a Wayne State course.

In addition, the candidate must complete a minimum of six semester credits from the following:

**Internship**
M S 4600 -- Clinical Forensic Pathology: Cr. 3
BIO 6020 -- Methods of Analysis: Cr. 2-4

**Expert Witness**
M S 5550 -- Special Topics: Cr. 1

**Independent Study**
M S 5990 -- Directed Studies: Cr. 3
BIO 3990 -- Directed Study: Cr. 1-2

**Loss, Grief and Stress**
M S 5996 -- Seminar: Cr. 2

**MORTUARY SCIENCE COURSES (M S)**
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

**NOTE:** Admission to the Professional Curriculum is a required prerequisite to all Professional M S courses.

**0999 Practicum Cr. 0**
Prereq: admission to department, consent of practicum coordinator; prereq. or coreq: M S 3510, 3810, 3840. No certificate of degree credit. Student placement in a licensed funeral service facility to acquire practical experience in basic funeral service skills. Enrollees work a minimum of eight hours a week. (Y)

**3100 Chemistry. Cr. 3**
Review of general inorganic chemistry; survey of organic and biochemistry; applications to postmortem changes, biologic preservation, and embalming chemistry. Material fee as indicated in the Schedule of Classes. (F)

**3300 Religions, Values, and Death. Cr. 3**
Various religious, secular, and philosophical views regarding the value of life, the meaning of death, and life after death. (F)

**3400 Mortuary and Business Law I. Cr. 3**
Business law and legal environment affecting practice of mortuary science. Introduction to American legal system, court structure, and contract law. Survey of tort law; regulation of businesses with emphasis on mortuary practice regulation; property law including zoning and mortuary practice regulations; personal property and insurance law. (W)

**3410 Mortuary and Business Law II. Cr. 3**
Prereq: M S 3400 Business and legal principles affecting mortuary practice with special emphasis on forms of business organization, law of sales, federal disclosure rules, legal responsibilities of the funeral service provider, probate law, and related federal/state laws. (Y)

**3500 Embalming I. Cr. 3**
Prereq: consent of instructor of record; prereq. or coreq: M S 3100. Open only to funeral service enrollees. Theories, practices, and techniques of biologic preservation and disinfection of human remains; case analyses; methods of application of embalming chemicals; use of special instruments and equipment; special case embalming. Laboratory teaching of all practical aspects of embalming. Material fee as indicated in the Schedule of Classes. (F)

**3510 Embalming II. Cr. 3**
Prereq: M S 3500. Dynamics of decomposition; influence of disease and its treatment on the embalming process; public health considerations; anatomical embalming; disaster response; evaluation of embalming techniques. Material fee as indicated in the Schedule of Classes. (W)

**3600 Restorative Art and Modeling I. Cr. 2**
Prereq: M S 3500. Theories, methods, and techniques used in the restoration of superficial tissues and features; color theory, cosmetology, facial proportions, skin tones correlated with reconstruction; clay and wax modeling; actual restorations performed on human remains. Material fee as indicated in the Schedule of Classes. (W)

**3610 Restorative Art and Modeling II. Cr. 2**
Prereq: M S 3600. Continuation of M S 3600. Material fee as indicated in the Schedule of Classes. (S)

**3760 Past and Future Trends in Funeral Service. Cr. 3**
Basic human need to memorialize the dead, examined throughout history. Funer alization as a process affected by social and religious change. The funeral service professional in a socio-temporal context. Possible future practices based on understanding of historical record and current trends. (S)

**3800 Funeral Directing. Cr. 4**
Funeral service operations. Practical applications including field trips. From first call to final disposition. Terminology, government regulations, ethics, professional conduct, vital statistics records, necessary forms. Religious, ethnic, fraternal and military variations. Computer technologies applications. (F)

**3810 Mortuary Management and Administration. Cr. 3**
Prereq: M S 3800. Continuation of M S 3800. Marketing, merchandising, public relations, preneed planning, personnel management, job-seeking skills, licensing requirements; planning, building and establishing of funeral home. Government regulations. (W)

**3830 Psychology of Death and Dying. Cr. 3**
Various social and cultural perspectives; psychosocial changes related to death, dying, and disposition; special cases: sudden, violent or unexpected death. (F)

**3840 Psychosocial Aspects of Grief. Cr. 2**
Prereq: M S 3830. Psychology of funeral service practices; social role of funeral service practitioner in the dynamics of grief; psychosocial interpretations of changing attitudes toward death; normal and abnormal grief responses. (W)
4010  Basic Forensic Analysis. Cr. 3
Prereq: admission to post-bachelor forensic investigation program. The forensic lab, its organization, accreditation, and regulation; quality control, safety, and documentation; discussion and demonstration of methods for collection and processing of specimens. (F)

4050  Human Anatomy and Physiology. Cr. 3
Open only to students seeking funeral service licensure. Detailed systemic study of human anatomy and physiology. Laboratory work consists of demonstrations and selected dissections; emphasis on vascular anatomy and adjacent structural relationships; anatomic guides. Material fee as indicated in the Schedule of Classes. (F)

4100  Medical Photography. Cr. 3
Theory and behavior of light and lenses; principles of exposure, color, and filters; macro- and microphotography. (F)

4150  Histochemistry. Cr. 3
Prereq: M S 4050; prereq. or coreq: BIO 5630. Study of techniques involved in the preparation of tissues prior to microscopic examination. Material fee as indicated in the Schedule of Classes. (W)

4200  Introduction to Forensic Anatomic Pathology. Cr. 3
Role of medical examiner, early signs of death, medical investigation of cause of death, methods for identification of remains, medicolegal aspects of forensic science, toxicology specimen techniques. (S)

4250  Medical Microbiology. Cr. 3-4
A study of pathogenic microbial agents; host-parasite relationships; disinfection-decontamination; immunology; epidemiology of infectious disease. Microscopy, staining technology; differentiation and identification of bacteria; evaluation of chemical disinfectants. Lecture and laboratory. Material fee as indicated in the Schedule of Classes. (W)

4300  Introduction to the Study of Disease. Cr. 2
Prereq: M S 4050, 4250. Causes of disease; tissue reactions to injury, gross and microscopic; neoplasia; select systemic pathologies; comparative roles of various specialties in pathology. (S)

4420  Laboratory Management. Cr. 3
Interpersonal and technical management techniques for the laboratory setting. (W)

4450  Small Business Financial Management. Cr. 3
Prereq: ACC 3020. Financial aspects of starting and operating a small business; dealings with fellow professionals and government agencies. (S)

4500  Clinical Autopsy Pathology. Cr. 2-6
Prereq: senior standing in pathologist assistant program. Autopsy procedures, including data retention, dissection techniques, selection of tissue for microscopic examination, and methods of body restoration prior to release. (T)

4550  Clinical Histopathologic Technique. Cr. 3
Prereq: senior standing in pathologist assistant program. Organization of a histology laboratory, proper handling of specimens for processing, available procedures and techniques. (T)

4600  Clinical Forensic Pathology. Cr. 2-5
Prereq: senior standing in pathologists' assistant program or consent of department chairperson. Assisting pathologist in determining cause of death; basic methods for identifying remains with regard to age, sex, and race; techniques of photographic record keeping. (T)

4650  Clinical Surgical Pathology. Cr. 5
Prereq: senior standing in pathologist assistant program. Principles and theories related to gross surgical dissections. (T)

4700  Clinical Pathology. Cr. 3
Prereq: senior standing in pathologist assistant program. Students become familiar with the operational requirements of the clinical chemistry and microbiology laboratories. (T)

4800  Clinical Photography. Cr. 2
Prereq: senior standing in pathologist assistant program. Techniques required to photographically record gross and microscopic specimens. (T)

4850  Clinical Academic Pathology. Cr. 6
Prereq: senior standing in pathologist assistant program. Principles and theories of surgical diagnostic pathology and mechanisms of disease. (T)

5010  Advanced Forensic Analysis. Cr. 2
Prereq: M S 4010; admission to post-bachelor forensic investigation program. New developments in the forensic laboratory; current areas of research and potential applications. (W)

5020  Biochemical Basis of Pathophysiology. Cr. 3
Prereq: BIO 1510, CHM 1030; coreq: BIO 2870 or M S 4050. Pathophysiology of some important biochemical disorders; correlation with relevant basic sciences; discussions of case studies. (F)

5050  Clinical Terminology and Methodology. Cr. 3
Clinical and surgical methods for analysis and treatment of human disease. (W)

5060  Human Anatomy and Physiology: Pathologists’ Assistant. Cr. 4
Prereq: admission to pathologists’ assistant program. Detailed systematic study of human anatomy and physiology; emphasis on cranial, thoracic, and abdominal structures. Laboratory: full human dissection. Material fee as indicated in the Schedule of Classes. (F)

5200  Medical Microbiology for the Technical Professional. Cr. 3
Prereq: BIO 2220. Detailed study of commensal organisms of the human and mechanisms of resistance. Identification, by anatomical location, of organisms likely to cause infection; methods required for collection and transportation of microbiological specimens. Material fee as indicated in the Schedule of Classes. (W)

5250  (WI) Applied General Pathology. Cr. 4
Prereq: M S 4050, BIO 5630. Special emphasis on clinical correlation. (Y)

5350  (WI) Applied Grief Counseling: Aftercare. Cr. 2
Prereq: M S 3830, 3840. Specific factors in the dynamics of grief; grief manifestations in death and in states of chronic diseases; development of general counseling and referral skills; communication skill-building and self-care practices for the death-field professional. (S)

5420  Future Trends in Pathology Practice. Cr. 2
Discussion of changing parameters of clinical pathology practice. (W)

5550  Special Topics in Mortuary Science. Cr. 1-3 (Max. 3)
Prereq: consent of instructor. Lectures and discussions; invited speakers on current topics in the profession. Topics to be announced in Schedule of Classes. (Y)

5990  Directed Studies. Cr. 3
Open only to Department enrollees. Library and/or laboratory study of current or pending professional development; study of an existing problem, study or development of new procedures or techniques. Assigned project under the guidance of departmental faculty member. (T)

5996  Senior Seminar. Cr. 2
Open only to Department enrollees. (T)
OCCUPATIONAL THERAPY

Office: 2226 APAHS; (313) 577-1435; Fax: (313) 577-5822
Interim Chairperson: Joseph M. Pellerito, Jr.
Graduate Coordinator for Master of Occupational Therapy Program:
Doreen Head
Graduate Coordinator for Master of Science Program:
Gerry Conti
Director of Fieldwork Education: Karmen Brown
Website: http://www.cphs.wayne.edu/ot/

Professor
Susan A. Esdaile

Professors Emerita
Miriam C. Freeing, Suesetta McCree, Martha E. Schnebly

Adjunct Professors
Franklin Stein, Elizabeth J. Yerxa

Associate Professor
Joseph M. Pellerito, Jr.

Adjunct Associate Professors
Robert Erlandson, Linda M. Roth

Assistant Professors
Karmen Brown, Gerry Conti, Doreen Head, Catherine L. Lysack

Senior Lecturer
Regina Parnell

Part-Time Faculty
Lori Ans pac, Angie Bayci, Tina Briggs, Donna Case, Collette Duggan, Susan Koziatek, Denise Nitta, Susan Robosan-Burt

Adjunct Faculty
Janet R. Andrews, Diane Brazen, Jane DeHart, Robert Erlandson, Cathy Fuerstnau, Darren Gustitus, Kirk Krugger

Part-Time Instructional Assistant
Michael Barrett

Cooperating Faculty
Rita Granda, Patricia Jarosz, Thomas Sullivan

Michigan Field Work Educators

Degree Programs

BACHELOR OF SCIENCE in Allied Health Sciences with a concentration in occupational therapy

*MASTER OF OCCUPATIONAL THERAPY

*MASTER OF SCIENCE in Occupational Therapy

The Department of Occupational Therapy's vision encompasses education, research, and service excellence, in the promotion of occupations of meaning within a multicultural urban community.

‘Occupation’ in occupational therapy means more than the word implies. It goes beyond work and work training. Occupational therapy helps people enhance wellness at any stage of life. It helps them engage in everyday activities that are important to them. With the assistance of a qualified therapist, patients learn how to prevent, overcome, or manage, physical and/or psychological impairments, disabilities, handicaps or other health-related conditions. Using a variety of productive or creative activities, occupational therapists show patients how to live life to its fullest potential.

Bachelor of Science in Allied Health Sciences — Occupational Therapy Concentration

The program leading to the Bachelor of Science in Allied Health Sciences (BSHS), Occupational Therapy Concentration, is offered by the Eugene Applebaum College of Pharmacy and Health Sciences of Wayne State University in cooperation with the College of Science. This degree, awarded upon completion of a minimum of 120 semester credits is a prerequisite for entry into the graduate component of the professional program, leading to the entry-level professional Master of Occupational Therapy degree.

The Master of Occupational Therapy (MOT) program replaces the previous occupational therapy baccalaureate program, in response to the mandate endorsed by the American Occupational Therapy Association (AOTA) and the Accreditation Council for Occupational Therapy Education (ACOTE), beginning in the 2003-04 academic year. The goal of this entry-level program is to educate individuals to become occupational therapy health care professionals. It is designed as a five-year program.

Students who are admitted to the occupational therapy program, successfully complete the requirements of the B.S.H.S. Occupational Therapy Concentration, and meet requirements for admission to the Graduate School at Wayne State University are guaranteed admission to the graduate component of the program.

Accreditation: Wayne State University offers courses of study which are accredited by the Accreditation Council for Occupational Therapy Education (ACOTE), the accrediting body of the American Occupational Therapy Association (AOTA), and which prepare the student to take the national certification examination. The Bachelor of Science in Allied Health Sciences does not qualify the holder for certification.

Academic Regulations: For complete information regarding academic rules and regulations of the University, students should consult the section beginning on page 5. The academic regulations for the Faculty of Health Sciences may be found beginning on page 356, as well as in the Student Handbook.

Admission: Admission to the preprofessional program is contingent upon undergraduate admission to the University; see page 15.

* For specific requirements, see the Wayne State University Graduate Bulletin.
Preprofessional Program: Incoming freshmen who intend to pursue the Bachelor of Science in Allied Health Sciences with a Concentration in Occupational Therapy must first complete College of Liberal Arts and College of Science preprofessional requirements, including the University undergraduate General Education Requirements and the prerequisite courses for the Occupational Therapy Core.

The following curriculum, totalling seventy-one to seventy-three credits, is required of all degree candidates for subsequent admission to professional study in the Department of Occupational Therapy. Core courses (see below) must be completed by the end of the fall semester prior to application for admission to the professional program. The courses listed under Additional General Education Requirements, below, may be completed during the winter semester, while making the application.

During the next (first professional) year, an additional fifty-two credits must be completed, after which the student is awarded a Bachelor of Science in Allied Health Sciences degree. (See below.)

Residence: See the section above on Academic Procedures for the Faculty of Health Sciences, page 356.

Time Limitation: See the section above on Academic Procedures for the Faculty of Health Sciences, page 356.

PREPROFESSIONAL PROGRAM

CORE COURSES
American Society & Institutions (AI) course: Cr. 3
BIO 1510 --(LS) Basic Life Mechanisms: Cr. 4
BIO 2870 --Anatomy and Physiology: Cr. 5
CHM 1020 --(PS) General Chemistry I: Cr. 4
COM 1010 --(OC) Oral Communication: Basic Speech: Cr. 3
ENG 1020 --(BC) Introductory College Writing: Cr. 4
ENG 3010 --(IC) Intermediate Writing: Cr. 3
PHY 2130 -- (PS) General Physics: Cr. 4
PHY 2131 -- General Physics Lab: Cr. 1
PSY 1020 -- (LS) Elements of Psychology: Cr. 3
PSY 2400 -- Developmental Psychology: Cr. 4
Visual and Performing Arts (VP) course: Cr. 3
Statistics course (STA 1020 or PSY 3010 or other): Cr. 3
Total: 44 credits

ADDITIONAL GENERAL EDUCATION REQUIREMENTS:
Critical Thinking (CT) competency requirement: Cr. 3
dForeign Culture (FC) course: Cr. 3
Historical Studies (HS) course: Cr. 3
NUR 1110 -- (CL) Intro.: Computers & Technol. for Health Prof: Cr. 2
PHI 2320 -- (PL) Introduction to Ethics (or another PL course): Cr. 3
Mathematics Competency (MC) requirement: Cr. 3
PHI 1050 --(CT) Critical Thinking: Cr. 3
UGE 1000 --(GE) Information Power: Cr. 1
Visual and Performing Arts (VP) course: Cr. 3
Mathematics Competency (MC) requirement
English Proficiency (EP) requirement

Professional Program

Professional Program Admission: Applicants must apply for admission to the professional program and be formally admitted. Applicants must hold a minimum grade point average of 2.8 or above for the preprofessional program. All prerequisite courses must be completed with grades of ‘C’ or better. A maximum of two professional core prerequisite courses may be repeated to improve grades. In addition, the applicant must: a) complete twenty hours of contact with a registered occupational therapist and provide documentation of the twenty hours; b) complete a Departmental Personal/Professional Statement; c) submit a letter of recommendation from a current or former supervisor. Students who have no work experience may seek a recommendation from an instructor of one of the Occupational Therapy Core Courses.

PROFESSIONAL PROGRAM

(The first five semesters of the MOT Program are taken at the undergraduate level. For further information on the MOT degree, consult the Wayne State University Graduate Bulletin.)

Semester One (Spring/Summer)
ANA 3030 -- Anatomy: Cr. 3
O T 3000 -- Introduction to Occupation, Health, and Wellness: Cr. 3

Semester Two (Fall)
O T 3400 -- Health Conditions I: Cr. 3
O T 3280 -- Client Factors I (with lab): Cr. 4
O T 3300 -- Movement Assessment (with lab): 3
NUR 2030 -- Pathophysiology: Cr. 2

Semester Three (Winter)
O T 3200 -- Therapeutic Media: Cr. 3
O T 4280 -- Client Factors II (with lab): Cr. 3
O T 4400 -- Health Conditions II: Cr. 3
O T 5450 -- Neuroanatomy for OT: Cr. 4

Semester Four (Spring/Summer)
O T 3070 -- Occupational Therapy Research I: Cr. 3
O T 4050 -- Life Occupations I: Cr. 3

Semester Five (Fall)
O T 6070 -- Occupational Therapy Research II: Cr. 3
O T 5050 -- Life Occupations II: Cr. 3
O T 4600 -- Group Dynamics: Cr. 5
O T 4060 -- Environmental Influence on Disability and Health: Cr. 3

TOTAL: 52 credits

Health and Liability Insurance: All students are required to maintain health insurance coverage and liability insurance, both of which must be in effect prior to and during all periods in which the student is involved in clinical education. The student is responsible for the cost of these insurances. Proof of insurance must be submitted by the end of the semester in which the student begins the professional program.

Academic Regulations — Professional Program: Once a student is enrolled in the professional program, a cumulative grade point average (g.p.a.) of 2.5 or above must be maintained.

Probation: A student whose g.p.a. falls below 2.5 in an academic semester is placed on curriculum probation for the following semester. The student must raise his/her g.p.a. in that semester, and must reach at least a 2.5 cumulative average at the end of the following semester; failure to accomplish this will result in dismissal from the program. A student is allowed a maximum of two semesters of probation during his/her entire enrollment in the occupational therapy program.

Repeating Courses: A grade of ‘C-minus’ or below in a prerequisite to a professional course, or in a professional course, indicates unsatisfactory performance, and the course must be repeated. No more than two professional courses may be repeated.

A course from which a student withdraws prior to the end of the semester, and in which he/she has maintained a ‘C-minus’ average, is counted as one of the two courses which the student is allowed to repeat. A failing grade (‘E’) in a professional course is unacceptable, and the student is automatically dismissed from the occupational therapy program. Failure in a Level I or Level II field experience may also result in dismissal from the program.

Student Aid

The University offers opportunities to students in need of financial assistance to meet the expenses of their education. Information about scholarships and loans is available from the University Office of Scholarships and Financial Aid, University Welcome Center.

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In addition, a limited amount of financial assistance is available to qualified students in the professional level occupational therapy program. Information may be obtained from the Chairperson of the Department.

Scholarships, Honors and Awards
Senior Awards:
The H. Barbara Jewett Honor Graduate of the Year Award recognizes the senior who, upon completion of the academic program, has attained the highest scholarship of the senior class. The student’s name is engraved on the award plaque, on permanent display in the Department.
The H. Barbara Jewett Chairman’s Awards are presented to those senior students who, while in the professional program, demonstrated outstanding accomplishments in occupational therapy scholarship, leadership, or professional interest.
The H. Barbara Jewett Scholarship Award was initiated by the WSU Occupational Therapy Alumnae Association in honor of Miss H. Barbara Jewett, O.T.R., who chaired the Department for over thirty years. Recipients are selected from students in the professional program by the Faculty Scholarship Committee.
The H. Barbara Jewett Faculty Award is awarded to a graduating senior who, while in the professional program, displayed outstanding departmental involvement.

Junior Awards:
The H. Barbara Jewett Leadership Award is based on written nominations from peers, including supporting evidence of leadership in professional program clubs and volunteer or committee service in community, College-wide, or University organizations.
The H. Barbara Jewett Professional Interest Award is based on written nominations from peers, including supporting evidence, membership, and participation in AOTA, MOTA, DOTA or MOTA-SiS groups, and community groups that include recipients of occupational therapy services.
The H. Barbara Jewett Creative Problem Solving Award, based on written nominations from faculty and/or peers, is awarded to the student who displays the ability to creatively envision and effect physical, structural, and/or interpersonal change in the learning environment.
The H. Barbara Jewett Part-time Student Award is based on written nominations from faculty, peers, or the student’s non-school support system and is awarded to the student who demonstrated professional attitudes, active student memberships, and additional responsibilities related to family, work, and contributions to the community. Eligibility is limited to part-time students in junior level classes or first year senior level classes.
The Ruth Marion Miller Memorial Student Loan Fund provides no-interest loans to qualified occupational therapy students.

Student Professional Activities
All professional level students are encouraged to become members of the American Occupational Therapy Association, as well as the Michigan Occupational Therapy Association, and any of the local professional organizations: the Detroit District, the North Metro, and the Huron Valley Occupational Therapy Associations.
The Occupational Therapy Club at Wayne State University is open to all preprofessional and professional level occupational therapy students and faculty. Meetings provide opportunities to develop professional understanding, to participate in service projects and to enjoy contact with other occupational therapy students and faculty.
The United Multicultural Student Caucus’s primary efforts are to introduce minority students to the field of occupational therapy, and, most specifically, to take necessary measures to retain minority students within the program. This organization contributes service and support to community health care organizations.

Pi Theta Epsilon, Eta Chapter, is the national occupational therapy honor society. To be eligible, a student must 1) be in the top twenty percent of the class, 2) have achieved a 3.5 cumulative grade point average, and 3) be in the second or third semester in the program. High academic standing is recognized and opportunities are provided for members to participate in service projects and professional activities in the community and the college.

OCCUPATIONAL THERAPY (O T)
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

3000  Introduction to Occupation, Health, and Wellness. Cr. 3
Prereq: admission to the occupational therapy professional program: coreq: O T 5993. Introduction to the processes and procedures utilized by the occupational therapist: observation, interview, communication and skills gained through interaction with normal individuals from infancy through senescence. Material fee as indicated in the Schedule of Classes.

3070  Occupational Therapy Research I. Cr. 3
Prereq: admission to occupational therapy program. Basic concepts and principles of research, terminology used to describe research, and effective use of research information for evidence-based practice in occupational therapy. Didactic and experiential components.

3200  Therapeutic Media. Cr. 3
Open only to OT Professional Program students; others by consent of instructor. Performance, adaptation and utilization of processes involved in selected creative and manual tasks and activities which have therapeutic value. Principles and methods of teaching appropriate to the therapist. Material fee as indicated in the Schedule of Classes.

3280  Client Factors I (with Lab). Cr. 3
Prereq: admission to OT program. Impact of client factors on life occupations. Tools and techniques for conducting assessments, observing and interviewing clients; course format is didactic, case presentation and experiential. First of two courses.

3300  Movement Assessment. Cr. 3
Prereq: PHY 2130, ANA 3030. Lecture and laboratory on human movement concepts prerequisite to the understanding of occupational therapy procedures applicable to patients with physical or sensory-integrative dysfunction. Material fee as indicated in the Schedule of Classes.

3400  Health Conditions I: Physical Disabilities. (P T 3400) Cr. 4
Prereq: consent of adviser. A series of interdisciplinary presentations on the clinical manifestations and management of selected problems due to disease states or injury; includes etiology, assessment, course and medical specialty management of the problems. Material fee as indicated in the Schedule of Classes.

4050  Life Occupations I. Cr. 3
Prereq: admission to OT program. Examination of areas of occupation: daily living activities, work/school, play, leisure and social participation. Tools and techniques for analysis of occupations; development of intervention strategies; effective documentation. First of two courses.
4050  Environmental Influence on Disability and Health. Cr. 3
Application of OT practice in health care delivery. Critical examination of physical, social, economic and political environments on the health, wellness, and disability of individuals, populations, and the health care delivery system. (F)

4070  Roles and Functions I. Cr. 2
Prereq: consent of adviser. Basic introduction to research and statistical methods in occupational therapy. Elementary computer use in occupational therapy research. (F)

4080  Roles and Functions II. Cr. 2
Prereq: consent of adviser. Organizational and administrative structure and functions of occupational therapy service programs; emphasis on communication techniques, personnel management and supervision, program and space planning, budgeting and legal implications of a service unit. Development of occupational therapy services and programs. Course cannot be taken out of sequence. (W)

4200  Theory and Practice I. Cr. 4
Prereq: O T 3100 and consent of adviser. Occupational therapy in mental health practice; evaluation, treatment planning, reporting and an overview of mental health theories. Lecture, class participation and field experience. Material fee as indicated in the Schedule of Classes. (F,W)

4210  Theory and Practice II. Cr. 4
Prereq: or coreq: O T 3400; prereq: 3300, consent of adviser. Instruction, laboratory and field experience in occupational therapy theory and procedures. Includes activities of daily living, leisure time activities, therapeutic exercise, splinting and prevocational evaluation. Material fee as indicated in the Schedule of Classes. (F,W)

4220  Theory and Practice III. Cr. 3
Prereq: O T 4210. Continuation of O T 4210. Material fee as indicated in the Schedule of Classes. (W)

4230  Theory and Practice IV. Cr. 5
Prereq: ANA 3040, O T 3400, consent of adviser. Study of the neurophysiologically-based treatment approaches in occupational therapy for patients with central nervous system dysfunction; includes occupational therapy in school systems. Material fee as indicated in the Schedule of Classes. (F,W)

4250  Level I Field Work in Schools. Cr. 1
Prereq: ANA 3040; coreq: O T 4230. On-site first level experience in school systems. (F,W)

4260  Level I Field Work Experience. Cr. 1
Prereq: consent of occupational therapy adviser. Offered for S and U grades only. Experience in affiliated agencies under supervision of on-site occupational therapist. (F)

4270  Mental Health Level I Fieldwork Experience. Cr. 1
Prereq: O T 3100, consent of adviser. Offered for S and U grades only. Field work experience in affiliaited agencies under supervision of registered, on-site occupational therapist. (T)

4280  Client Factors II. Cr. 3
Prereq: O T 3280. Impact of sensory-motor skills on client's life occupations. Tools and techniques for conducting assessments; documenting, observing, and interviewing. Course format: didactic, case presentation, and experiential. Second of two courses. (W)

4300  Client Issues in Occupational Therapy. Cr. 2
Prereq: senior standing in occupational therapy. Workshop presentation of role of the occupational therapist in various aspects of patient management. (F)

4350  Occupational Therapy Seminar. Cr. 1-3
Prereq: consent of adviser. Correlation of social, cultural, physical, economic and psychological aspects of illnesses with occupational therapy theory and practice. Discussion and field experience. (I)

4400  Health Conditions II: Psychiatry. Cr. 4
Prereq: O T 3400. Major categories of psychiatric conditions, young adult through elderly. Diagnostic criteria; treatment strategies in hospital and community settings with fieldwork requirements. Guest lecturers from medical and community settings. Second of two courses. (W)

4600  Group Dynamics. Cr. 5
Experiential approach to learning group dynamics and effective group skills. Development of self-awareness and social skills necessary in building practical group skills. Level I fieldwork. (F)

4990  Directed Study. Cr. 1-5 (Max. 5)
Prereq: consent of adviser. (T)

5000  Interventions and Outcomes I. Cr. 5
Prereq: admission to OT program. Occupation-based therapeutic activities, intervention strategies, documentation skills, and discharge planning that promote client-centered outcomes; focus is on children, through the teen years. Level I fieldwork. First of two courses. (W)

5050  Life Occupations II. Cr. 3
Prereq: O T 4050. Role of leisure in health, wellness, prevention and rehabilitation; focus: across the life span. Explores and develops assessment tools, treatment plans for diverse populations; includes experiential learning. Second of two courses. (F)

5400  Neuroanatomy for Occupational Therapy. Cr. 4
Prereq: ANA 3030. Survey of the human central nervous system; emphasis on sensory systems and structures that contribute to normal movement. (F)

5993  (WI) Writing Intensive Seminar in Occupational Therapy. Cr. 0
Prereq: enrollment in occupational therapy program; coreq: O T 3000. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with designated corequisite; consult Schedule of Classes for corequisites available each term. Satisfies University General Education Writing Intensive Course in the Major requirement. (T)

6000  Interventions and Outcomes II. Cr. 5
Prereq: O T 5000. Occupation-based therapeutic activities, intervention strategies, documentation skills, and discharge planning that promote client-centered outcome; focus is on the adult years. Second of two courses. (W)

6070  Occupational Therapy Research II. Cr. 3
Prereq: O T 3070. Application of research principles and methods to solving occupational therapy problems. (F)

6150  (ELE 6010) Family Centered Collaboration in Early Childhood Intervention. (PSY 6010) (S W 6010) Cr. 3-4
Theories, concepts and practices of family centered intervention services for young children with special needs. Team-building and cross-disciplinary communication and collaboration with families. (F)

6620  (ECE 6100) Occupational Technology. (BME 6500) Cr. 3
Prereq: consent of instructor. Principles of application of enabling technology: across life stages, for differing ethnic and cultural backgrounds, for individuals with varying functional abilities. (Y)

6800  Culture and Disability. Cr. 2-3
Prereq: senior level graduate admission status. How cultural context affects interpretation of disability; ways of measuring disability. Principles of health statistics, rationale for rehabilitation programs and disability policy, cultural variations in concepts of disability. (Y)

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Degree Programs

**BACHELOR OF SCIENCE in Allied Health Sciences — Pre-Physical Therapy Concentration**

The Physical Therapy Profession

Physical Therapy is a health care profession with an established theoretical base and widespread clinical applications — particularly in the preservation, development and restoration of maximum physical functions. Physical therapists seek to prevent injury, impairments, functional limitations, and disability; to maintain and promote fitness, health, and quality of life; and to ensure availability, accessibility, and excellence in the delivery of physical therapy services to the patient. As essential participants in the health care delivery system, physical therapists assume leadership roles in prevention and health maintenance programs, in the provision of rehabilitation services, and in professional and community organizations. They also play important roles in developing health policy and appropriate standards for the various elements of physical therapy practice.

**Bachelor of Science in Allied Health Sciences — Pre-Physical Therapy Concentration**

The program leading to the Bachelor of Science in Allied Health Sciences (Pre-Physical Therapy Concentration) is offered by the Eugene Applebaum College of Pharmacy and Health Sciences of Wayne State University in cooperation with the College of Liberal Arts, College of Science, and School of Medicine. This degree, awarded upon completion of a minimum of 120 semester credits (approximately seventy-five pre-professional semester credits and forty-five professional program semester credits), is a prerequisite for entry into the graduate component of the professional program, leading to the professional entry-level Master in Physical Therapy degree.

Students who are admitted to the physical therapy program, successfully complete the requirements of the B.S. Pre-Physical Therapy Concentration, and meet requirements for admission to the Graduate School at Wayne State University are guaranteed admission to the graduate component of the program. Students who already hold an undergraduate degree are eligible to receive a second bachelor’s degree.

The program of study in physical therapy has received an accreditation from the Commission on Accreditation in Physical Therapy Education for the Master in Physical Therapy program. Graduates who receive a Master in Physical Therapy degree are eligible to take physical therapy licensure examinations and for active membership in the American Physical Therapy Association. The Bachelor of Science in Allied Health Sciences (Pre-Physical Therapy Concentration) does not qualify the holder for licensure.

**Admission**

**Preprofessional Program:** The applicant must satisfy the admission requirements to the University (see page 15). Applicants to the professional program must also fulfill all prerequisite courses for the physical therapy program, as well as the Wayne State University General Education Requirements (see page 23). Applicants who already hold an undergraduate degree are exempt from the General Education Requirements. Decisions regarding the fulfillment of program prerequisites are made by the Department of Physical Therapy. Application forms for admission to the University may be obtained from the University Office of Admissions. Prior to admission to the professional program, the following prerequisites, or their equivalent, must be completed:
PREPROFESSIONAL PROGRAM

BIO 1500 -- Basic Life Diversity: Cr. 4
BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 4
PSL 3220 -- Fundamentals of Human Physiology: Cr. 4
BMB 5010 or CHM 1030
  -- General Biochemistry Lecture: Cr. 2
  -- General Chemistry II: Cr. 4
CHM 1220 -- (PS) Chemical Structures, Bonds & Reactions: Cr. 4
CHM 1230 -- Chemical Principles Lab: Cr. 1
PHY 2130 -- (PS) General Physics: Cr. 3
PHY 2131 -- General Physics Lab: Cr. 1
PHY 2140 -- General Physics: Cr. 3
PHY 2141 -- General Physics Lab: Cr. 1
PSY 3010 -- Statistical Methods in Psychology: Cr. 4
MAT: Math. Proficiency Exam./Math. Competency
PSY 1010 -- (LS) Introductory Psychology: Cr. 4
PSY 2400 -- Developmental Psychology: Cr. 4
ENG 1020 -- (BC) Introductory College Writing: Cr. 4
ENG 3010 -- (IC) Intermediate Writing: Cr. 3
HEA 2330 -- First Aid and CPR: Cr. 3

In addition to the above, the following General Education Requirements (see page 23) must also be satisfied:

(AI) American Society and Institutions
(CL) Computer Literacy Competency
(CT) Critical Thinking Competency
(EP) English Proficiency Requirement
(FC) Foreign Culture Group Requirement
(HS) Historical Studies Group Requirement
(OC) Oral Communication Competency
(PL) Philosophy and Letters Group Requirement
(SS) Social Studies Group Requirement
(VP) Visual and Performing Arts Group Requirement

Professional Program Admission: The professional program in physical therapy is three years in length and consists of an undergraduate component and a graduate component. Progression to the graduate component is achieved only through successful completion of the undergraduate component. Courses in the professional program are taken on a full-time basis in the Eugene Applebaum College of Pharmacy and Health Sciences. The professional program begins in the spring semester of each year.

For admission to the professional program in physical therapy, applicants must submit an Application for Admission to Professional Program, Eugene Applebaum College of Pharmacy and Health Sciences. Applications are available November 15 from the Office of the Registrar of the College or via the College Website. Application deadline is January 15 for admission to the program the following May. Admission is competitive. Completion of prerequisites with minimum requirements does not guarantee admission.

Applicants to the professional program must satisfy the following requirements:

1. Be admitted to Wayne State University (see page 15 for admission requirements).
2. Submit proof of completion of all science prerequisite classes by January 15 of the year for which admission was sought.
3. Submit proof of completion of all Wayne State University General Education Requirements, or their equivalent, by May 1 of the year for which admission is sought.
4. Have a minimum grade point average of 3.0 in all preprofessional course work, and prerequisite science and mathematics courses; and a minimum cumulative grade point average of 3.0. Grades of ’D’ in required preprofessional courses will not be accepted by the Department. Science courses must be completed within the six years prior to admission to the professional program.

5. Possess the qualifications necessary for the professional responsibilities of a physical therapist.
6. Successful completion of English and Mathematics Proficiency Examinations by May 1. (Information on Proficiency Examinations may be obtained from the Office of Testing and Evaluation: 313-577-3400.)

7. Applicants whose first language is not English must pass the Test of English as a Foreign Language (TOEFL) and spoken English test.

Reapplication: Applicants who are not initially accepted for admission to the professional program may reapply. Applicants applying for the second time are encouraged to meet with a representative of the Physical Therapy Department for advice. Applicants considering a third application are required to meet with a representative of the Physical Therapy department before submitting an application.

A personal or written interview may be scheduled for qualified applicants. The interview will assist the Department in determining whether the applicant possesses the personal qualifications and characteristics necessary for the profession by assessing maturity, motivation and communication skills. Students will also be expected to be able to articulate their knowledge of self, physical therapy, and health care in general.

Professional courses and/or professional program admission requirements are subject to change without notification. The curriculum is subject to change due to changes in requirements for entry into professional practice, which may be separate from academic requirements. It is the student’s responsibility to obtain current information regarding the program from the Department of Physical Therapy.

Degree Requirements

Candidates for the Bachelor of Science in Allied Health Sciences (Concentration in Pre-Physical Therapy) must complete a minimum of 120 credits (including General Education Requirements and professional program prerequisites). These credits are distributed between the preprofessional program (see above) and the undergraduate phase of the professional program. The undergraduate phase of the professional program consists of four semesters (forty-five credits), as follows. (Course work listed is subject to change without notice.)

PROFESSIONAL YEAR ONE and TWO

ANA 3030 -- Anatomy: Cr. 3
ANA 3040 -- Human Neuroanatomy and Neurophysiology: Cr. 2
IHS 3100 -- Basic Mechanisms of Human Disease I: Cr. 5
IHS 3200 -- Basic Mechanisms of Human Disease II: Cr. 5
IHS 3300 -- Pharmacology for Health Sciences: Cr. 1
P T 4020 -- Introduction to Physical Therapy: Cr. 3
P T 4120 -- Human Growth and Development: Cr. 4
P T 4220 -- Basic Therapeutic Procedures: Cr. 2
P T 4320 -- Basic Evaluation Procedures: Cr. 3
P T 4400 -- Clinical Medicine I: Cr. 2
P T 4430 -- Clinical Medicine II: Cr. 2
P T 4500 -- Clinical Medicine III: Cr. 3
P T 4650 -- Kinesiology I: Cr. 2
P T 5100 -- Therapeutic Exercise: Cr. 2
P T 5460 -- Integrated Physiology: Cr. 2
P T 5800 -- Clinical Education I: Cr. 2

Health and Liability Insurance: Clinical Education is provided throughout the professional program along with didactic courses. The final sixteen weeks of the program is spent in one or more assignments in selected clinical facilities throughout the metropolitan Detroit area, Michigan and other parts of the country. Patient care involves inherent risk of exposure to potential diseases, particularly blood-borne pathogens, and the risk of possible mishaps in patient care. Therefore, all students are required to maintain health insurance coverage and liability insurance, both of which must be in effect prior to and during all periods in which the student is involved in clini-
cultural education. The student is responsible for the cost of these insurances and all other costs (such as travel, meals, living expenses) associated with the clinical education portion of the program.

**Academic Regulations:** The Department of Physical Therapy has strict regulations regarding academic performance and progress. Copies of the most recently revised policies, which reflect the undergraduate and graduate components of the program, are available from the Department Office.

**Financial Aid**
The University offers opportunities to students in need of financial assistance to meet the expenses of their education. Information about scholarships and loans is available from the University Office of Scholarships and Financial Aid, University Welcome Center. In addition, the Physical Therapy Emergency Student Loan fund has been established to assist physical therapy students in good standing in this discipline. Information regarding this and other financial aids for physical therapy students may be obtained from the Department Office.

**UNDERGRADUATE COURSES**
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

**ANATOMY COURSES (ANA)**

3030  Anatomy. Cr. 3
Open only to students in Health Sciences. Dissection and prosection; emphasis on neuromuscular system and functional correlation. Material fee as indicated in the Schedule of Classes. (S)

3040  Human Neuroanatomy and Neurophysiology. Cr. 2
Prereq: IHS 3100, IHS 3200. Study of human central nervous system; emphasis on sensory systems and structures which contribute to normal movement; lecture and laboratory. (S)

6050  Biology of the Eye. (PYC 6050) Cr. 3
Integrated introduction to biology of eye function, and to causes and clinical treatments of eye-related disorders and diseases. Material fee as indicated in the Schedule of Classes. (Y)

**PHYSICAL THERAPY COURSES (P T)**

3400  (O T 3400) Health Conditions I: Physical Disabilities. Cr. 4
Prereq: IHS 3100; coreq: IHS 3200 or consent of instructor. A series of interdisciplinary presentations on the clinical manifestations and management of selected problems due to disease states or injury; includes etiology, assessment, course and medical specialty management of the problems. Material fee as indicated in the Schedule of Classes. (W)

4020  Introduction to Physical Therapy. Cr. 3
Prereq: admission to professional curriculum. Historical and sociological perspectives on the profession. Introduction to basic patient care emergency procedures. Material fee as indicated in the Schedule of Classes. (S)

4120  Human Growth and Development. Cr. 4
Prereq: P T 4020, consent of instructor. Theories and basic principles in prenatal, physical, sensorimotor, perceptual, cognitive, social, emotional and language growth and development. Implications for physical therapy evaluation and treatment of children with developmental disabilities, adults with disabilities, and the aging population. Material fee as indicated in the Schedule of Classes. (F)

4220  Basic Therapeutic Procedures. Cr. 2
Prereq: P T 4500, 4320, 4430, or consent of instructor. Principles and techniques of basic therapeutic procedures, including massage, superficial heat and cold, basic and postural exercises, transfers and gait patterns. Laboratory. Material fee as indicated in the Schedule of Classes. (W)

4320  Basic Evaluation Procedures. Cr. 3
Prereq: P T 4500, 4400, or consent of instructor; coreq: 4430. Basic principles and techniques of manual muscle testing, goniometry, and anthropometric measurements. Posture and gait evaluation. Laboratory. Material fee as indicated in the Schedule of Classes. (W)

4400  Clinical Medicine I. Cr. 2
Prereq: P T 4020 or consent of instructor; coreq: IHS 3100. Disease processes, medical and surgical interventions. Specific clinical relevance to physical therapist’s role; exploration of roles of other health care professionals: physician, occupational therapist, speech pathologist, psychologist, nurse. (Y)

4430  Clinical Medicine II. Cr. 2
Prereq: IHS 3100, P T 4400; coreq: IHS 3200. Continuation of P T 4400. Disease processes, medical and surgical interventions. Specific clinical relevance to physical therapist’s role as part of comprehensive health care team. (Y)

4500  Kinesiology I. Cr. 3
Prereq: P T 4020, ANA 3030, or consent of instructor. Students must register for both sections. Biomechanical and kinesiological principles of human movement as related to anatomical and neuroanatomical structure. Fundamentals of pathokinesiology. Study of external and internal forces as they affect stability, tissue damage, body movement abnormalities and gait. Laboratory. Material fee as indicated in the Schedule of Classes. (F)

4650  Kinesiology II. Cr. 2
Prereq: P T 4500. Continuation of P T 4500. Additional depth and breadth. Material fee as indicated in the Schedule of Classes. (W)

4840  Seminar in Physical Therapy. Cr. 2
Prereq: P T 4110, 4270, 4520, 4610, and 4800, or consent of instructor. Offered for S and U grades only. Exploration of contemporary issues in physical therapy and health care. Student application of principles of teaching and group dynamics. (S)

4860  Clinical Education III. Cr. 3 (Max. 9)
Prereq: completion of all other professional coursework. Offered for S and U grades only. Students must register for three sections. Continuation of P T 4800. Supervised experiences in clinical environments. Three full-time, six-week experiences. Activity reports required. (S, F)

5100  Therapeutic Exercise. Cr. 2
Prereq: P T 4430, 4650; coreq: 5460. Fundamental principles and techniques of therapeutic exercise; development of treatment protocols for specific patient problems including evaluation and progression treatment plans based on patient response. Material fee as indicated in the Schedule of Classes. (Y)

5460  Integrated Physiology. Cr. 2
Prereq: IHS 3200, ANA 3040, P T 4650, consent of instructor. Processes of selected physical functions that have special relevance to selected aspects of physical therapy; theoretical and practical aspects. Material fee as indicated in the Schedule of Classes. (S)

5800  Clinical Education. Cr. 2
Prereq: consent of instructor; coreq: P T 4220, 5460, 5100. Offered for S and U grades only. Orientation to clinical education and practice, observational skills; correlation of basic principles and skills of patient care and treatment. Part-time, supervised experience in clinical environment. Activity reports required. (S)
COLLEGE OF SCIENCE

DEAN: Robert L. Thomas
Foreword

The College of Science, formed in 1992, consists of nine departments: Audiology and Speech-Language Pathology, Biological Sciences, Chemistry, Computer Science, Geology, Mathematics, Nutrition and Food Science, Physics and Astronomy, and Psychology. This union of quantitative disciplines is designed to address recognized national priorities for expansion of academic research, promotion of scientific literacy, and development of human resources to meet technological challenges.

In its broadest definition, a science education imparts the knowledge, understanding and skills needed to achieve professional goals and personal fulfillment in a changing technological world. University General Education courses offered by Departments in the College of Science provide education in the methods and processes of scientific inquiry, an understanding of the nature of science and its impact on society, and the fundamental knowledge needed to keep up with the scientific and technological issues of the times. By studying science, students come to appreciate the wonders of nature and satisfy a natural curiosity about their constantly evolving universe.

Undergraduate degree programs in the College of Science lead to careers in the biological, behavioral, mathematical and physical sciences and provide excellent preparation for a wide variety of graduate and professional programs including medicine, dentistry, other health professions, and some areas of law, business and engineering. In addition to acquiring a solid foundation in a scientific discipline, students learn to think objectively, analytically and critically. Laboratory experiences reinforce theoretical training by illustrating scientific concepts, demonstrating experimental approaches and teaching technical skills. Graduates thus develop the resourcefulness, judgment and problem-solving abilities to succeed in new technical fields or to excel in traditional careers.

The undergraduate programs of the College of Science are strengthened by research-oriented graduate programs which lead to the master’s and doctor’s degrees. Undergraduates in the upper division may take some advanced classes along with graduate students. They are encouraged to engage in research projects along with faculty, graduate students, and research personnel. Undergraduate research provides an opportunity for students to deepen their knowledge in a particular area, to learn about the latest research developments and to be challenged by the intellectually-stimulating environment of a research laboratory. It presents an opportunity to work closely with graduate students, postdoctoral fellows and faculty members and provides an introduction to research for the many science students who seek graduate or professional degrees.

The departments of the College of Science enjoy state-of-the-art equipment and modern research facilities. Support facilities include the Science Storeroom and glassblowing, electronics and machine shops. The Science and Engineering Library has an excellent collection of science books and journals as well as computer-based literature-search capabilities.

DEGREE PROGRAMS

BACHELOR OF ARTS with majors in:

- Biological Sciences
- Chemistry
- Computer Science
- Geology
- Information Systems
- Linguistics
- Mathematics
- Nutrition and Food Science
- Physics
- Psychology
- Speech-Language Pathology

BACHELOR OF ARTS HONORS with majors in:

- Biological Sciences Honors
- Chemistry Honors
- Geology Honors
- Nutrition and Food Science Honors
- Psychology Honors

BACHELOR OF SCIENCE with majors in:

- Computer Science
- Geology
- Mathematics
- Nutrition and Food Science
- Psychology

BACHELOR OF SCIENCE HONORS with majors in:

- Geology Honors
- Mathematics Honors
- Nutrition and Food Science Honors
- Psychology Honors
- Speech-Language Pathology Honors

SPECIAL BACHELOR’S DEGREES in:

- Biological Sciences (Bachelor of Science in Biological Sciences)
- Chemistry (Bachelor of Science in Chemistry)
- Computer Science (Bachelor of Science in Computer Science)
- Dietetics (Bachelor of Science in Dietetics)
- Physics (Bachelor of Science in Physics)

SPECIAL BACHELOR’S HONORS DEGREES

- Bachelor of Science in Biological Sciences Honors
- Bachelor of Science in Chemistry Honors
- Bachelor of Science in Computer Science Honors

*MASTER OF ARTS with majors in:

- Applied Mathematics
- Biological Sciences
- Chemistry
- Computer Science
- Linguistics
- Mathematics
- Mathematical Statistics
- Multidisciplinary Science
- Nutrition and Food Science
- Physics
- Psychology
- Speech-Language Pathology

*MASTER OF ARTS IN HUMAN DEVELOPMENT

*MASTER OF SCIENCE with majors in:

- Audiology
- Biological Sciences
- Chemistry
- Computer Science
- Geology
- Molecular Biotechnology
- Nutrition and Food Science
- Physics

*DOCTOR OF PHILOSOPHY with majors in:

- Biological Sciences
- Chemistry
- Computer Science
- Mathematics
- Nutrition and Food Science
- Physics
- Psychology
- Speech-Language Pathology

*DOCTOR OF AUDIOLOGY

*GRADUATE CERTIFICATE IN SCIENTIFIC COMPUTING

* For specific requirements, see the Wayne State University Graduate Bulletin.
**BACHELOR’S DEGREE REQUIREMENTS**

**Credits**
Candidates for Bachelor of Arts, Bachelor of Science, or any Special Degree must complete at least 120 credits. At least fifteen credits must be earned in courses numbered 3000 or above. Certain curricula may require additional credits above this minimum. (See ‘Restrictions on Credit,’ below.)

**Grade Point Average:** All students are required to maintain an overall grade point average of “C” (2.0) for all degree work elected. See ‘Grade Point Average,’ page 43.

**General Education Requirements**
University-wide general education requirements and College-wide group requirements are designed to enhance students’ basic skills and to promote intellectual breadth. These requirements assure minimal competence in those skills needed to succeed in college and professional life and provide a selective introduction to the increasingly broad range of academic disciplines represented at the University. They serve to emphasize the fundamental means and essential knowledge required for continuing self-education and intellectual growth.

As of Fall, 1991, all entering undergraduate students must satisfy both University General Education Requirements and College Group Requirements. Students who first enrolled prior to Fall, 1991 should consult with their advisers regarding University General Education Requirements and College Group Requirements. While these two sets of requirements substantially overlap and complement each other, College Group Requirements, in several respects, supplement and modify the University program by requiring additional course work or restricting the use of certain specific courses.

**Competency Requirements**
The College of Science requires the establishment of the same academic skills and competencies as are set forth in the University General Education Program, see page 23.

**College Group Requirements**
Group Requirements for students in the College of Science overlap considerably with those of the University General Education Program (see page 25). However, they are not identical, and students must make sure that their course elections satisfy both sets of requirements.

In order to achieve breadth of educational experience, both the University and the College enforce the policy that no two courses offered in satisfaction of the Group Requirements may be chosen from within the same Subject Area Code.

The following are statements of important differences between the University General Education Program and the College Group Requirements.

1) The College requires three courses in the natural sciences — one more than is required by the University.

2) The College requires two courses in the social sciences (SS) — one more than is required by the University.

3) The College requires an additional course in the humanities under the heading of Civilizations and Societies (see below).

4) The College requires three courses in a single foreign language. Foreign language competency is not a part of the University General Education Requirements.
In each category the Group Requirement must be satisfied by election from an approved list of courses. Courses not on the lists will not be accepted as fulfilling the requirement. The basic list for University General Education courses may be found on page 25. The following list of Group Requirements cite only exceptions to the University lists. For updates to these lists post the publication date of this bulletin, students should consult the University Advising Center.

**AMERICAN SOCIETY AND INSTITUTIONS (AI)** The College list is the same as the University list, except that the College list does not include ISP 3420 and ISS 1510. One course is required.

**FOREIGN CULTURE (FC)** Students will satisfy the University General Education Requirement in Foreign Culture by successfully completing a three course sequence (through 2010 or 2110) in a single foreign language.

**FOREIGN LANGUAGE** All students in the College of Science must successfully demonstrate language proficiency equivalent to the three-course basic sequence in a single foreign language. Proficiency is proven by completing courses numbered 1010 (or 1100 and 1110), 1020, and 2010 in one of the following subject area codes: ARB, ARM, CHI, FRE, GER, GRK, HEB, ITA, JPN, LAT, POL, RUS, SPA, SWA, and UKR; as well as GRK 1110, 1120, and 2110. Those students continuing in the study of a foreign language begun in high school or at another college will be placed at the appropriate level in the sequence, as determined by means of qualifying examinations or interviews administered by the various language departments of the University, and must complete the sequence to demonstrate proficiency. The College Foreign Language Group Requirement will be considered satisfied by those students whose test scores place them beyond the intermediate (third course) level.

**Bilingual Students:** The College Foreign Language Group Requirement will be considered satisfied for students who were born in and completed their secondary education in a country whose language is not English. However, no credit (through course work or by examination) will be granted for elementary or intermediate level courses in that language. Bilingual students who satisfy the Foreign Language Group Requirement in this manner will simultaneously fulfill the University General Education Requirement in Foreign Culture.

**HISTORICAL STUDIES (HS)** The College list is the same as the University list, except that the College list does not include ISP 3160. One course is required.

**LIFE SCIENCE (LS)** The College of Science requires one course from the following shortened list to satisfy its Group Requirement in Life Sciences: ANT 2110; BIO 1030, 1050, 1510; HON 4220; NFS 2030; PSY 1010, 1020.

**PHILOSOPHY AND LETTERS (PL)** The College list is the same as the University list, except that the College list does not include I H 2710. One course is required.

**PHYSICAL SCIENCE (PS)** The College of Science requires one course from the following shortened list to satisfy its Group Requirement in Physical Science: CHM 1000, 1020, 1220, 1225, 1410; HON 4230; PHY 1020, 1040, 1070, 2130, 2170, 3100.

**THIRD COURSE IN NATURAL SCIENCE (LS, PS)** A third course in the Natural Science area is required. It can not be chosen from the same department as either of the other two courses with which the student fulfills the Physical Science or Life Science requirement. All courses on the University list for Life Science or Physical Science are acceptable except IST 2310 and 2420. Also, students may elect NFS 2210 as the third course in Natural Science (a course which is not on the University General Education list).

**SOCIAL SCIENCE (SS)** The College list is the same as the University list, except that the College list does not include ISP 3480 and ISS 2710. Two courses (taken from different departments) are required.

**VISUAL AND PERFORMING ARTS (VP)** The College list is the same as the University list, except that the College list does not include I H 2730. One course is required.

**CIVILIZATIONS AND SOCIETIES:**

This College Group Requirement is not part of the University General Education Requirements. Students must complete one course from the following (cross listed versions of these course are indicated in parentheses): A S 2010; AFS 2010; ARM (or GER, POL, RUS, SLA, UKR) 3410, ARM (or POL, RUS, SLA, UKR) 3710; CBS 2100 (SPA 2400), 2110 (SPA 2500); CLA 2000; ENG 2600, 3600; FRE 2710, 2720; GER 2710, 2720; GRK 3710; ITA 2710, 2720; N E 2000, 2010; POL 2710; RUS 3510.

Note: The Junior Year in Germany experience also meets the College Civilizations and Societies requirement.

**THE UNIVERSITY AND ITS LIBRARIES (INFORMATION POWER)** as specified in the University General Education Program (see page 27).

**UNIVERSITY REQUIREMENT IN AMERICAN GOVERNMENT** for students enrolled prior to Fall Term 1987: See General University Information, page 27.

**Curriculum Requirements**

A curriculum usually designates a general area of interest or eventual professional choice. By choosing the General Curriculum, students indicate only an intention to take a degree in one of the departments of the College or that their final academic goal has not as yet been determined. Since educational interests may change during a college career, curricula may be altered at any time by consulting an academic adviser.

Some curricula outline specific programs of study. Others are governed only by the group requirements, future major requirements and recommendations. Group, curricular, and major requirements may be modified from time to time during a student’s course of study, and students should periodically consult with appropriate advisers. Descriptions of the various curricula will be found in the Undergraduate Curricula section below.

**Science Requirement for B.S. Degrees**

*Bachelor of Science degrees:* Students who are candidates for Bachelor of Science degrees must successfully complete sixty credits in the natural sciences, computer science, advanced logic, statistics, and mathematics. Credits completed to satisfy the College Group Requirements in Natural Science may be applied to the sixty credits.

*Combined Degrees:* Students who are candidates for Bachelor of Science degrees in Combined Degree programs must complete all required science credits, but conditions vary as follows: pre-dental and pre-medical students must complete a minimum of forty credits, and pre-law students a minimum of sixty credits, in the natural sciences and mathematics before entering their respective professional schools.

*Special Degrees:* Students who are candidates for the Special Degrees Bachelor of Science in Biological Sciences, Bachelor of Science in Chemistry, or Bachelor of Science in Physics must fulfill the sixty-credit requirement in the natural sciences, computer science, advanced logic, statistics, and mathematics. Candidates for other Special Bachelor of Science degrees must complete the College Group Requirement in Natural Science and any additional science and mathematics courses required by the curriculum which they are following.
Major Requirements

A major is a program of concentrated study in a department or area within the College. Specific course requirements for majors are listed in this bulletin under each of the departments or areas of the College. Students may declare majors at any time but generally select areas of concentration during their sophomore year and formally declare majors by the beginning of their junior year. Students must complete all courses in their majors with an overall average of 'C' (2.0).

Declaration of Major: To declare a major, students should consult a departmental adviser well in advance of making a formal declaration, since the acceptance of a declared major is subject to the advice and consent of the department concerned. Declaration of Major forms are available in the University Advising Center, 1600 Adrmany Library. A 2.00 cumulative g.p.a. is required to declare a major. At the time of formal declaration, the student must present to the department a current transcript and a Degree Audit from University Advising, obtain the signature of the department chairperson or designated representative on the Declaration form and file it in the Student Services Office, 2155 Old Main. All courses elected or changed by the student after the declaration of a major should be approved by the department adviser.

The major must include at least twenty credits in one subject, exclusive of introductory courses and inclusive of some advanced work. No more than forty-six credits in the major subject (including introductory courses) may be counted toward a degree. For majors which require intensive study in a particular subject, however, more than forty-six credits are allowed.

Within the above limits, each major program has specific requirements which may be modified from time to time; it is, therefore, each student's responsibility to keep informed of the current requirements in his/her major department.

For interdepartmental or field majors, the rule regarding minimum credits required in one subject is waived.

The major completed is part of the degree designation on the diploma.

Double Major: Students wishing to declare double majors must obtain approval from the chairpersons or delegated representatives of each department or intended major program. For students to graduate with double majors, the major requirements in both areas of concentration must be fulfilled. Students must complete all courses in both majors with an over-all grade point average of 'C' (2.0). Both majors are designated on the diploma.

Students enrolled in colleges and schools other than the College of Science and who wish to graduate with a double major, one component of which is in a science curriculum, must satisfy all College Group Requirements, as well as the major requirements of the department involved. (See also 'Combined Degrees' and 'Concurrent Degrees,' below.)

Minor Fields

The College of Science offers the option of a minor. Students may choose to fulfill a minor but are not required to do so. In general, minors require eighteen to twenty-one credits. Courses which bear limitations prohibiting their election for major credit may not be elected for minor credit.

Students enrolled in colleges and schools other than the College of Science and who wish to declare a minor in a science curriculum, may do so by satisfying the minor requirements of the curriculum involved. They need not satisfy the College Group Requirements.

Students are strongly encouraged to consult with departmental advisers for course selections. The notation of the minor will appear on the transcript but not on the diploma. To declare a minor, students should consult a departmental adviser to obtain an approval signature. Program approval forms are available from the University Advising Center, 1600 Adrmany Library.

Special Concentration Available within a Department

Biological Sciences: Biophysics and Molecular Biology (Bachelor of Science in Biological Sciences Degree)

Combined Degrees and Second Degrees

A Combined Degree (B.A. or B.S.) is granted by the College of Science in cooperation with approved schools of Dentistry, Medicine, and Law, which do not require a bachelor's degree for admission. Candidates for Combined Degrees must complete 90 credits in the College of Science, all University requirements, all College requirements, make reasonable progress (as determined by the major department) toward completing a major, and complete satisfactorily the first year's work in an approved professional school. Courses taken in the first year of professional school may be applied toward the required fifteen credits in advanced courses. Students who fail to pass any course ordinarily required during the first year of professional work forfeit the right to a Combined Degree. Such cases may be reopened only after the student completes the second year of professional work.

Students who have received a degree from Wayne State University or any other accredited institution may obtain a second bachelor's degree in another academic area by registering in the undergraduate College. Graduates of Wayne State University who have earned degrees from the College of Science may be ranked as undergraduates by declaring new majors and indicating a desire to earn a second undergraduate degree. Graduates of other Wayne State University schools or colleges must transfer to the College of Science. A student from another institution must be admitted to the College by the University Admissions Office.

In order to be granted second degrees, students must complete a minimum of thirty credits beyond the first degree in the College and satisfy all University, College and major requirements. Generally, no second degree will be granted in the academic area in which the first degree was earned.

Concurrent Degrees and Double Majors

Students who have satisfied all requirements for two different major programs leading to degrees offered by the College and who have accumulated 150 or more degree credits may apply for both degrees simultaneously. However, students intending to earn concurrent degrees are required to obtain permission from the Office of the Dean prior to the accumulation of 120 degree credits. A more usual procedure for students satisfying the requirements of two different major programs is to declare a double major and graduate with one degree, in which case as few as 120 degree credits may be required. (See also 'Major Requirements,' and 'Combined Degrees,' above.)

Restrictions on Credit

Repeated Subjects: Degree credit will not be granted for course work in which credit has already been granted. (Students who wish to repeat a course in which they did not receive credit originally must file a repeat form at the time of registration.) Since similar courses may have different names dependent upon the college and the semester in which a course is offered, students are advised to make certain that they do not offer repeated work as credit toward a degree.

Maximum Credits in One Subject: Students may not count toward a degree more than forty-six credits in any one subject except for special curricula which specify additional courses in the curriculum outline.

Over-Age Credits: Students attempting to complete majors after a protracted interruption in their education, or those attending the University on a part-time basis over an extended period of time, may find that some early course work is outdated. In such cases, a department may require refresher work or a demonstration that the student is prepared for advanced courses in the department.

College of Science 383
Restricted Courses: Degree credit for restricted courses is given only within the approved limits specified below.

Professional Courses: Students may elect a maximum of sixteen credits as cognate work from elected courses offered for degree credit by the several professional schools and colleges within the University. Eight of these credits may be elected with the approval of an academic adviser prior to the declaration of a major, and eight additional credits may be chosen with the approval of the major department. Where academic advisers have approved fewer than eight credits, the major department may approve credit up to the sixteen maximum credits allowed. In curricula which specifically require professional courses in excess of the maximum, additional credits may be elected.

Specialized Courses: Unless a curriculum specifies otherwise, the maximum amount of degree credit which may be earned in certain specialized areas is limited as follows:

- **Dance** (approved courses) — 16 credits maximum
- **Health** — 8 credits maximum
- **Applied Music** (including limitation stated in paragraph below) — 16 credits maximum
- **Physical Education** (activity) — 4 credits maximum

A total of not more than four credits from the following list of courses may be counted toward a degree unless a curriculum specifically requires more extensive elections:

- MUA 2800 — University Bands: Cr. 1
- MUA 2810 — University Symphony Orchestra: Cr. 1
- MUA 2820 — Jazz Lab Band: Cr. 1
- MUA 2830 — Men’s Glee Club: Cr. 1
- MUA 2840 — Choral Union: Cr. 1
- MUA 2850 — Concert Chorale: Cr. 1
- MUA 2870 — Women’s Chorale: Cr. 1
- MUA 2880 — Chamber Music and Special Ensembles: Cr. 1
- COM 2240 — Forensics Practicum: Cr. 1-3

Restrictions on Transfer Credit: — **Two-Year Colleges**: No more than sixty-four semester credits from two-year colleges may be applied toward graduation.

— **Weekend College**: No more than sixteen credits, which may include six credits of Independent Study, may be transferred from Weekend College. Courses transferred will not count towards fulfilling College group or major requirements.

Restrictions on Professional Courses: Students may elect a maximum of sixteen credits as cognate work from elected courses offered for degree credit by the several professional schools and colleges within the University. Eight of these credits may be elected with the approval of an academic adviser prior to the declaration of a major, and eight additional credits may be chosen with the approval of the major department. Where academic advisers have approved fewer than eight credits, the major department may approve degree credit up to the sixteen maximum credits allowed. In curricula which specifically require professional courses in excess of the maximum, additional credits may be elected.

Residence

To qualify for a baccalaureate degree in the College of Science, a minimum of thirty credits must be earned in the College. The last thirty credits applicable to the degree, not including credit by special examination, must be completed in an undergraduate college or school of Wayne State University. Credit by special examination may not be counted as residence credit, but such credit, if earned during a semester in which the student is registered, will not be considered an interruption of residence.

In special circumstances, senior residence may be interrupted with the approval of the student’s major department and the Educational Adjustment Committee; however, when the candidate has fewer than the minimum thirty credits of residence in the College of Science, no such exceptions are permitted.

For the Combined Degree, the residence requirement must be completed in the College of Science at Wayne State University prior to admission to the professional school.
ACADEMIC REGULATIONS

Attendance
Regularity in attendance and performance is necessary for success in college work. Attendance requirements will be announced by instructors at the beginning of each course.

Normal Program Load
The requirements for graduation are based upon an average program of fifteen credits per semester for eight semesters. A normal load should not exceed eighteen credits.

Because two hours of outside preparation are normally expected for each class hour, a fifteen credit program calls for approximately forty-five hours of class attendance and study per week. Students who undertake such a program should expect to give it their full time and energy. A few hours of employment a week may be safely added by capable students.

Extra Credits
Extra credits are credits taken in excess of the normal load of eighteen credits. Students with 3.0 (or above) grade point averages may take more than eighteen credits when their proposed programs carry the written approval of the adviser and the Dean.

Retention of Records
Term papers and examinations shall either be returned to students or retained by the instructor for a minimum of six months. Thereafter they may be destroyed. Instructors shall retain grade books for at least five years following the end of a term, and instructors who leave the institution shall give grade books for courses conducted during the past five years to their department chairperson. Five years after the end of a course, grade books may be returned to the instructor or destroyed by the department.

Study Abroad
For more than a quarter of a century, the University has provided its students with the opportunity to study abroad for a year in order to experience the cultural, academic, and social life of a foreign country. Students in good academic standing may, with the approval of their major departments, take their junior year's work abroad. See the section ‘Global Education,’ page 35.

Regarding other opportunities for study abroad, students should contact the University Advising Center, 577-2680.

Honors Program
Students in the College who have a cumulative grade point average of 3.0 or above are eligible to elect Honors Program courses. For a description of the Honors Program, see page 414.

‘AGRADE’ —Accelerated Graduate Enrollment
Five departments of the College — Biological Sciences, Computer Science, Geology, Mathematics, and Nutrition and Food Science — permit academically superior majors to petition for admission into the College’s ‘AGRADE’ program. ‘AGRADE’ procedures enable qualified seniors to enroll simultaneously in the undergraduate and graduate programs of the College and apply a maximum of fifteen credits towards both a bachelor’s and master’s degree in the major field. Students electing ‘AGRADE’ programs may expect to complete the bachelor’s and master’s degrees in five years of full-time study.

An ‘AGRADE’ applicant may petition the Graduate Committee of the major department for acceptance into the program no earlier than the semester in which ninety credits are completed. Applicants must have an overall g.p.a. at the Cum Laude level (approximately 3.6) and not less than a 3.6 g.p.a. in the major courses already completed. If the student’s petition is accepted, the student’s faculty adviser shall develop a graduate Plan of Work, specifying the ‘AGRADE’ courses to be included in subsequent semesters.

For more details about the ‘AGRADE’ program, contact the chairperson of the major department, or the Graduate Office of the College of Science (577-5188).

Phi Beta Kappa
Phi Beta Kappa, the Nation’s oldest honor society, was founded at the College of William and Mary in Virginia on December 5, 1776. The one hundred and fifty-sixth chapter of the society, Gamma of Michigan, was installed at Wayne State University on January 16, 1953 under a charter granted to the College of Liberal Arts by the United Chapters of Phi Beta Kappa. Membership in the chapter is restricted to its charter members and to those members of the junior and senior classes of the College of Liberal Arts and the College of Science who have been elected to membership by the chapter and who have formally accepted election and participated in initiation ceremonies of this or some other cooperating chapter. In addition, all members of the University staff who have been elected to membership by other chapters of Phi Beta Kappa automatically become affiliated members of the local chapter for the duration of their stay at the University.

Election to membership is restricted to students with at least two academic years of residence in the College of Liberal Arts or the College of Science, and is based not only on high scholarship and integrity, but also on breadth and depth of program. Students who wish further information are urged to consult with the secretary of the chapter concerning requirements for membership.

Graduation With Academic Distinction
Candidates eligible for the bachelor’s degree may receive a special citation on their diplomas under the following circumstances: The designations of Summa Cum Laude, Magna Cum Laude, and Cum Laude will be conferred upon graduating students whose cumulative grade point averages at Wayne State University fall within approximately the upper five per cent, the next five per cent, and the next ten per cent of the senior class, respectively. The grade points used to identify the lower limits for each designation will be based upon the grade points attained by seniors at these percentile levels during the preceding academic year. Only students who have earned sixty or more credits at Wayne State University are eligible to graduate with one of the above distinction citations.

Dean’s List
The Dean’s List of academically superior students is compiled each fall and winter term based on the following criteria: a 3.6 grade point average for students registered for full-time programs of twelve credits or more which contribute to the grade point base; a 4.0 grade point average for students registered for between six and eleven credits. Students who receive marks of ‘I’ or ‘W’ or ‘X’ and grades of ‘N’ or ‘U’ are not eligible. (For explanation of these marks and grades, see page 42.)

Academic Probation
Low Grade Point Average: If a student’s work averages below 2.0, the student will be placed on academic probation. The student will be required to obtain permission from the University Advising Center before registering. Such permission will be granted only after an interview during which the student and adviser identify previous causes of failure and formulate a plan for future academic success.
Registration: A student on academic probation must have a ‘hold’ released each term before he or she registers. To obtain this release, the student must see an academic adviser in the University Advising Center. This hold will not be released after the last day of the final registration for the term for which the student plans to register. The hold cannot be released at the advising station in the Student Center during final registration.

Restriction: While on academic probation, a student may not represent the College in student activities.

Removal of Academic Probation: Academic probation will be removed at the end of any term in which the student achieves an over-all average of ‘C’ (2.0) or better for all degree work taken at the University.

Exclusion

Low Grade Point Average: Students on academic probation shall be given two subsequent terms for enrollment on probationary status. At the conclusion of the two terms, a student who has not achieved a cumulative g.p.a. of at least 2.0 shall be excluded from the University. A student excluded from the University may not apply for reinstatement for one calendar year. Such an exclusion will be reviewed by the Probation Committee and the Dean upon the request of the student.

Reinstatement: After one year of exclusion, the student may apply for reinstatement in the College. The decision to reinstate will be based upon evidence presented by the student that circumstances have changed during the year and that the probability of success has increased. The reinstatement application must be returned to the University Advising Center at least two weeks prior to the first day of any registration period.

Cheating and Plagiarism: The principle of honesty is recognized as fundamental to a scholarly community. Students are expected to honor this principle and instructors are expected to take appropriate action when instances of academic dishonesty are discovered. An instructor, on discovering such an instance, may give a failing grade on the assignment or for the course. The instructor has the responsibility of notifying the student of the alleged violation and the action being taken. Both the student and the instructor are entitled to academic due process in all such cases. Acts of dishonesty may lead to suspension or exclusion. Information on procedures is available in the Office of the Dean.

Academic Advising

Freshmen and sophomores are required to consult departmental advisers each time they register. A staff of academic advisers is available in the University Advising Center, 1600 Adamany Library, to answer general academic questions. Students should confer with advisers on all questions concerning degree requirements, academic regulations, course elections, and programs of study. It is of primary importance that students talk with an adviser when they are having difficulties in their academic work. Students may choose either to see a specific adviser or any available adviser. Freshman and sophomore students in some of the special curricula are required to consult departmental advisers or advisers in other colleges. All science students are encouraged to consult the undergraduate adviser in their prospective major department.

Juniors and seniors are assigned to advisers in their major departments, and their course elections in the last two years are arranged in consultation with these departmental advisers.

Financial Aid

See Office of Scholarships and Financial Aid (page 20), or the Student Services Coordinator in the Dean’s Office for additional information and applications, as well as the individual departmental sections below, for additional scholarships.
UNDERGRADUATE CURRICULA

Students who are uncertain of procedures in curricular planning should confer with an adviser. Each Department specifies the curriculum required of its majors, and students should consult the Departmental adviser as soon as possible. In all curricula, majors must be declared by the beginning of the junior year.

General Curriculum

The following curriculum is suggested for students who are interested in a science major but have not yet selected a specific field. In the sciences, succeeding courses build upon the information and concepts developed in earlier courses. For that reason, it is important to take courses in the proper sequence and to select a major early. During the first two years, the objectives of the student should be (1) to complete fundamental science and mathematics courses, (2) to explore and identify a major, and (3) to satisfy the University General Education Requirements and the College Group Requirements. Students interested in majoring in most of the sciences (including mathematics and computer science) will need the calculus sequence (MAT 1800, 2010 and 2020). Students interested in majoring in audiology and speech-language pathology, nutrition and food science, or psychology may find statistics (STA 1020) to be more appropriate. Students should consult the curriculum descriptions of the individual departments and consult a departmental adviser as soon as they decide on a major.

Suggested Course Elections

Freshman Year

Fall Semester

English 1020 (BC): Cr. 4
Mathematics: Cr. 4
Science elective: Cr. 4
Prospective major course: Cr. 4-5
UGE 1000 (GE): Cr. 1
Total credits: 17-18

Winter Semester

(IC) English elective: Cr. 3
Math. or Computer Sc: Cr. 3-4
Science elective: Cr. 4
Prospective major course: Cr. 4-5
Total credits: 14-16

Sophomore Year

Fall Semester

General Ed. Requirement: Cr. 3
Language I course: Cr. 4
Science or Math. elective: Cr. 4
Prospective major course: Cr. 4-5
Total credit: 15-16

Winter Semester

General Ed. Requirement: Cr. 3
Language II course: Cr. 4
Science or Math. elective: Cr. 4
Prospective major course: Cr. 4-5
Total credits: 15-16

PRE-PROFESSIONAL CURRICULA

Admission to pre-professional curricula implies only that students have selected professional goals. It does not necessarily mean that students will be accepted by the corresponding professional school or college.

Pre-Dentistry

Satisfactory completion of University General Education Requirements, College Group Requirements, a major field, and the basic sciences listed below lead to the bachelor’s degree and qualify students for consideration by most schools of dentistry.

Biology or Zoology with laboratory: Cr. 12-16
Chemistry: Inorganic, including qualitative analysis, and lab: Cr. 9-11
Chemistry: Organic with laboratory: Cr. 8-10
English: Cr. 8-12
Physics with laboratory: Cr. 8-10

Recommended electives include psychology, sociology, biochemistry, embryology, and statistics. Because different schools of dentistry may require credits in some or all of these subjects, students are advised to become familiar with Admission Requirements of U.S. and Canadian Dental Schools, a brochure which may be ordered from the American Association of Dental Schools, 1625 Massachusetts Avenue N.W., Washington, D.C., 20036.

Pre-Education —See page 102 and page 229.

Pre-Medicine and Pre-Osteopathic Medicine

Satisfactory completion of University General Education Requirements, College Group Requirements, a major field, and the basic sciences listed below lead to the bachelor’s degree and qualify a student for consideration by most schools of medicine and osteopathic medicine.

Biology or Zoology with laboratory: Cr. 12-16
Inorganic Chemistry (including qualitative analysis) & lab: Cr. 9-11
Organic Chemistry with laboratory: Cr. 8-10
Physics with laboratory: Cr. 8-10
English: Cr. 8-12

Recommended electives include psychology, sociology, biochemistry, embryology, and statistics. Because different schools of medicine may require credits in some or all of these subjects, students are advised to become familiar with Medical School Admission Requirements, a brochure which may be ordered from the Association of American Medical Colleges, 2450 N Street, N.W., Washington, D.C., 20037-1126. The admission requirements of specific schools of osteopathic medicine are available from the American Association of Colleges of Osteopathic Medicine, 6110 Executive Blvd., Suite 405, Rockville, Maryland 20852-3991.

Wayne State University’s School of Medicine encourages students to fulfill degree requirements by selecting courses which will contribute significantly to a broad cultural background and by choosing a major in which one is interested. The Committee on Admissions is influenced by the scholarly approach to education, not by the area in which one concentrates.

Pre-Clinical Laboratory Science — See page 359.

— Cytotechnology Concentration— See page 361.

Pre-Mortuary Science — See page 367.

Pre-Occupational Therapy— See page 372.
Pre-Optometry
Satisfactory completion of University General Education Requirements, College Group Requirements, a major field, and the courses listed below lead to the bachelor’s degree and qualify a student for consideration by most schools of optometry. Although some schools will accept students who have completed only two years of undergraduate work, preference is given to those who have earned the bachelor’s degree.

Biology, including microbiology, with laboratory: Cr. 12-16
Inorganic chemistry with laboratory: Cr. 8-10
Physics with laboratory: Cr. 8-10
Algebra and Trigonometry: Cr. 3-4
Calculus: Cr. 6-8
English: Cr. 6-8
Psychology: Cr. 3
Statistics: Cr. 3

Recommended electives include biochemistry and social sciences. Information about specific schools is available from the Association of Schools and Colleges of Optometry, 6220 Executive Blvd., Suite 690, Rockville, Maryland 20852.

Pre-Pathologists’ Assistant — See page 368.

Pre-Pharmacy — See page 343.

Pre-Physical Therapy — See page 376.

Pre-Radiation Therapy Technology — See page 321.

Pre-Veterinary Medicine
Satisfactory completion of University General Education requirements, College Group Requirements, a major field, and the courses listed below lead to the bachelor’s degree and qualify a student for consideration by the College of Veterinary Medicine at Michigan State University.

BIO 1510 — (LS) Basic Life Mechanisms: Cr. 4
CHM 1220 — (PS) Chemical Structure, Bonding & Reactivity: Cr. 4
CHM 1230 — Chemical Principles in the Laboratory: Cr. 1
CHM 1240 — Principles of General/Organic Chemistry: Cr. 4
CHM 1250 — General/Organic Chemistry Lab: Cr. 1
CHM 2220 — Organic Chemistry: Cr. 3
CHM 2230 — Preparative Organic Chemistry Lab: Cr. 2
CHM 2280 — Chemical/Analytical Principles: Cr. 3
CHM 2290 — Chemical/Analytical Principles Laboratory: Cr. 2
CHM 5600 or CHM 6620
— Survey of Biochemistry: Cr. 3
— Metabolism: Cr. 3
MAT 1800 — Elementary Functions: Cr. 4
PHY 2130/2131 or PHY 2170/2171
— (PS) General Physics/General Physics Lab: Cr. 4
— (PS) General Physics/General Physics Lab: Cr. 5
PHY 2140/2141 or PHY 2180/2181
— General Physics/General Physics Lab: Cr. 4
— General Physics/General Physics Lab: Cr. 5
English (ENG): Cr. 6-8

Other requirements in social sciences and humanities may be satisfied by meeting the College Group Requirements. Recommended electives include: comparative vertebrate zoology, microbiology, statistics, and psychology.

TEACHER PREPARATION CURRICULA
Science students preparing to teach in one of the fields listed below will register in the College of Science for their freshman and sopho-

Combined Curriculum for Secondary Teaching
This curriculum leads to a bachelor’s degree and a Michigan Secondary Provisional Certificate.

The Combined Curriculum for Secondary Teaching is offered in Biological Sciences, Chemistry, Computer Science, Geology, Mathematics and Physics, in cooperation with the College of Education. It prepares students for teaching major and minor subjects in the secondary school. In electing courses during the first two years, students should acquire a broad general education while simultaneously electing courses that are required by their future major department.

Students interested in this program should consult an academic adviser in the University Advising Center, who will supply a curriculum outline and provide guidance. Students are also encouraged to consult the departmental undergraduate adviser in the prospective science major as early as possible. They may also consult the Division of Academic Services, Room 469, College of Education, at any time during the first two years for consultation on professional programs they may be planning to pursue.

Degree in the College of Science: Students earn a bachelor’s degree in the appropriate science or mathematics major and simultaneously prepare for secondary teaching certification. Students remain registered in the College of Science and elect departmental majors by the beginning of the junior year. Students then apply to the College of Education for official admission to the combined curriculum for secondary teaching and must be approved by the College of Education as candidates for teacher certification. During the junior and senior years, student program requests will be signed by both a College of Science major adviser and by the appropriate adviser in the College of Education.

Degree in the College of Education: Students earn a bachelor’s degree in education with a major in science education or mathematics education and simultaneously prepare for secondary teaching certification. Students apply for admission to the College of Education after completing fifty-three credits in course work, transfer to that College at the beginning of the junior year, and follow the degree requirements of the College of Education.

Curriculum in Special Education with a Concentration in Speech Impaired
The major in special education with a concentration in speech and language impaired is offered by the College of Education in conjunction with the Department of Audiology and Speech-Language Pathology. Students earn a B.S. degree with a major in special education — speech impaired. Upon completion of the master’s degree in speech-language pathology, they also receive elementary (K-8) certification and a teaching endorsement in speech and language impaired (K-12). This prepares teachers to work with children who have speech and language disorders. Students register in the College of Science for the first two years, apply for admission to the College of Education after completing fifty-three credits in course work, and transfer to the College of Education at the beginning of the junior year. Those interested in this program should consult an academic adviser, who will supply a curriculum outline and provide guidance. They should also consult the undergraduate adviser in the Department of Audiology and Speech-Language Pathology, 581 Manoogian, as early as possible.
AUDIOLOGY and SPEECH-LANGUAGE PATHOLOGY

Office: 581 Manoogian; 577-3339
Web: http://www.science.wayne.edu/~aslp

Chairperson: Alex Johnson
Graduate Officer: Margaret Greenwald
Undergraduate Officer: Karen S. O’Leary
Coordinator of Clinical Programs: Kristine V. Sbaschnig

Professors
Alex Johnson, William Leith (Emeritus), John Panagos (Emeritus)

Associate Professors
Dale O. Robinson, Thomas H. Simpson

Assistant Professors
Jean Andruski, D’Jaris Coles-White, Mark DeRuiter, Margaret Greenwald, Li Hsieh

Instructors
Karen S. O’Leary, Gilmour M. Peters, Kristine V. Sbaschnig

Lecturer
Joan Cortright

Adjunct Faculty
Colleen Allen, Kenneth R. Bouchard, Michael W. Church, William Dickin-
son, Frances E. Eldis, Susan Fleming, Barbara Jacobson, Gary P. Jacobson, Ginette Lazotte, Lidia Lee, Mark Simpson

Degree Programs
BACHELOR OF ARTS with a major in speech-language pathology

*MASTER OF ARTS with a major in speech-language pathology

*MASTER OF SCIENCE with a major in audiology

*DOCTOR OF PHILOSOPHY with a major in speech-language pathology

*DOCTOR OF AUDIOLOGY

Bachelor of Arts with a Major in Speech-Language Pathology

This department offers courses related to the study of communication and communication disorders and sciences. Specialized coursework prepares students to work with speech-language and hearing disabled children and adults in a variety of settings, including the public schools, hospitals, clinics, rehabilitation centers and private practice. College teaching and research are also career possibilities.

Undergraduate majors in this specialization should note that a master’s degree in this area is required for clinical certification by the American Speech-Language-Hearing Association. Study in this field at the undergraduate level provides a scientific foundation for graduate study in both audiology and speech-language pathology as well as other science and health professions.

Students interested in pursuing doctoral study should contact the graduate officer.

* For degree requirements, see the Wayne State University Graduate Bulletin.

Admission Requirements are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the Bachelor’s degree must complete 120 credits of course work including satisfaction of the College Group Requirements (see page 381) and the University General Education Requirements (see page 23), as well as the major requirements listed below. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381.

It is expected that a major will complete at least thirty but not more than forty-six credits in SLP course work. Any credits elected over the maximum forty-six must have prior approval of both adviser and chairperson if the additional credits are to count toward the degree (120 credits) for transfer students. At least twelve credits are required in residence within the major. A proper distribution of courses approved by the student’s adviser is important. It is desirable that students intending to major in speech-language pathology begin their work in the Department in their sophomore year. Courses in the major should be selected in consultation with a departmental adviser.

Although students do not officially declare a major prior to the junior year, advising is available to freshmen and sophomores. The Department allows one repeat of undergraduate courses with permission of the instructor and/or adviser.

Major Requirements for a Bachelor of Arts degree in this discipline consist of the following courses: SLP 3990 (one credit), 5080, 5090, 5120, 5300, 5320, 5360, 6460, 6480; AUD 5400 and 5420. In addition, all majors must complete the following courses: STA 1020; GPH 1100 or ANT 2100; and PSY 1010; or equivalents; for clinical certification.

Bachelor of Science Option: Students majoring in this discipline also have the option of working toward the Bachelor of Science in Education degree (speech-language impaired) granted by the College of Education. It is recommended that such students earn the Michigan Teaching Certificate at the undergraduate level, although certification is not granted until completion of the Master’s Degree, which is required before clinical certification is awarded. These students normally transfer into the College of Education at the beginning of the junior year.

An adviser should be consulted early in the student’s program so that course work is taken in the proper sequence for both the B.S. degree in education and the Michigan Teaching Certificate, as well as the speech-language major program. For the Bachelor of Science degree the College of Education also requires a planned minor elected in consultation with an adviser in the College of Education. Inquiries should be directed to 581 Manoogian Hall (577-3339). For further details, consult the ASLP Undergraduate Student Handbook, available from the Department.

Advising: Initial questions about the major, including work required in the College of Education, should be directed to the Undergraduate Officer. For questions concerning clinical certification, contact the Coordinator of Clinical Programs.

Financial Aid: See Office of Scholarships and Financial Aid, page 20. The following award is available to students in this department: Clara B. Stoddard Endowment Scholarship Award: Awarded to majors in the Department specializing in school speech-language pathology.
UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

AUDIOLOGY COURSES (AUD)

5400  Introduction to Audiology. Cr. 3
Introduction to physics of sound, anatomy of the hearing mechanism, audiology, hearing aids, habilitation and rehabilitation of the hearing handicapped. (F)

5420  Introduction to Aural Rehabilitation. Cr. 3
Prereq: AUD 5400. Principles and practices of aural rehabilitation including hearing aids. (S)

SPEECH-LANGUAGE PATHOLOGY COURSES (SLP)

1010  Elementary Sign Language [ASL]. Cr. 4
Appreciation and use of American Sign Language (ASL). Review of basic grammar coupled with classroom practice to learn to communicate in signs. Supervised observations of interactions with individuals who are deaf. (I)

1020  Advanced Sign Language [ASL]. Cr. 4
Prereq: SLP 1010. Advanced use of American Sign Language (ASL); grammar and classroom practice for sign communication and teaching. Supervised participation with individuals that are deaf. (Y)

1800  Improving Intelligibility for Internationals. Cr. 2
Offered for S and U grades only. Articulation, accent, and intonation patterns drilled on a group and individual basis for people learning English as a second language. Coursework in the English Language Institute should be completed or taken concurrently. (T)

2010  Using Sign Language [ASL]. Cr. 4
Prereq: SLP 1020. Practical uses of sign language with special emphasis on fieldwork projects in specific fields such as law, medicine, speech-language pathology, social work, special education. Supervised presentations to individuals who are deaf. (Y)

2750  African American English. (LIN 2750) Cr. 3
Structure, content, use, and history of African American English (also known as Ebonics) from its origins to the present. (W)

3990  Directed Study. Cr. 1-3 (Max. 4)
Prereq: consent of chairperson required if replacing regular course work. Undergraduate study in areas not covered in scheduled curriculum, including library and field work. (Y)

4998  Honors Seminar. Cr. 3
Prereq: admission to departmental honors program, senior standing, consent of undergraduate adviser. Bibliographic and research experiences; review of recent literature; research project. (T)

5080  Phonetics. (LIN 5080) Cr. 3
Multisensory study of sounds in the English language, emphasizing acoustic, physiologic, kinesiologic approaches. Material fee as indicated in the Schedule of Classes. (F)

5090  Anatomy and Physiology of the Speech Mechanism. Cr. 3
General science of normal speech; anatomy, physiology and mechanics of respiration, phonation, resonance, articulation. (W)

5120  Speech Science. Cr. 3
Prereq: SLP 5300, 5080, 5090. Speech production, acoustics of sound, perception of the speech signal. (Y)

5300  Introduction to Speech-Language Pathology. Cr. 3-4
Speech-language pathology in clinical and educational settings; classification of communication disorders and related management strategies. (F,S)

5310  Clinical Methods in Communication Disorders. Cr. 3
Prereq: SLP 5080, 5090, 5300, 5320. Procedures and materials for clinical diagnosis of articulatory, language, rhythm, and voice deficits of organic and non-organic causation. (W)

5320  Normal Language Acquisition and Usage. (LIN 5360) Cr. 3
Language development in children and the associated areas of emotional and motor development; language stimulation techniques and programs. Material fee as indicated in the Schedule of Classes. (F)

5360  (WI) Clinical Practice in Speech-Language Pathology. Cr. 3 (Max. 9)
Prereq: SLP 6460, 6480, and 5310, each with grade of B or better. Supervised experience in application of methods of diagnosis and treatment of clinical cases. Material fee as indicated in the Schedule of Classes. (T)

6360  Advanced Clinical Practice in Speech-Language Pathology. Cr. 3 (Max. 9)
Prereq: SLP 5360 or equiv. with grade of B or better. Open only to graduate students. Supervised experience in application of methods of diagnosis and treatment of clinical cases. Material fee as indicated in the Schedule of Classes. (T)

6460  Language and Phonological Disorders. Cr. 4
Prereq: SLP 5080, 5090, 5300, 5320. Introduction to the clinical management of articulation and language disorders. (W)

6480  Organic and Fluency Disorders. Cr. 4
Prereq: SLP 5080, 5090, 5300, 5320. Introduction to the clinical management of cleft palate, voice, and stuttering disorders. (W)

6620  Introduction to Voice Disorders and Cleft Palate. Cr. 3
Prereq: SLP 5300. An introduction to basic concepts related to acquisition and manifestations of voice disorders in children and adults and to resonance disorders as a result of oral clefting, including remediation. (W)

6640  Language Development and Disorders: Infants and Preschool Children. Cr. 3
Prereq: SLP 5300 and 5320; graduate standing or consent of instructor; coreq: SLP 6641. Theory, assessment and intervention with young children and their families. Emphasizes clinical problem solving, diagnosis, prevention and management in the context of cognitive, linguistic and neurological development. (F)
BIOLOGICAL SCIENCES

Office: 1360 Biological Sciences; (313) 577-2873
Fax: 313-577-6981
Web: http://www.biosci.wayne.edu
Chairperson: James D. Tucker
Associate Chairperson: John M. Lopes
Academic Services Officer: Gayle Chlebnik, Krystyn Purvis, Linda VanThiel
Academic Adviser: Shalonda Fowler

Professors

Associate Professors

Assistant Professors
Jerry Caldwell, Marcus Friedrich, Aleksandar Popadic

Degree Programs

BACHELOR OF SCIENCE in Biological Sciences

BACHELOR OF ARTS with a major in Biological Sciences

*MASTER OF SCIENCE with a major in Biological Sciences

*MASTER OF ARTS with a major in Biological Sciences

*MASTER OF SCIENCE in Molecular Biotechnology

*DOCTOR OF PHILOSOPHY with a major in Biological Sciences and concentrations in cell, developmental, and neurobiology; evolutionary and organismal biology; molecular biology and biotechnology

Bachelor of Arts

With a Major in Biological Sciences

GENERAL BIOLOGY TRACK

The Bachelor of Arts degree is for students who desire a broad liberal arts education with specialization in biology. It is not recommended for students anticipating admission into graduate or medical school.

Students contemplating a major program in biological sciences should consult with the departmental undergraduate adviser no later than the beginning of the sophomore year.

Admission requirements for the College are satisfied by the requirements for general undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete at least 120 credits in course work including satisfaction of the College Group Requirements (see page 381) and the University General Education Requirements (see page 23), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381. Students must receive a grade of ‘C-minus’ or better in all biology courses. A grade point average of 2.0 (‘C’) in both biology and general required courses is required for graduation.

Biology Core Requirements: A minimum of thirty-two credits beyond BIO 1500 and 1510 are required of the major. Students must declare their major after completing BIO 2600, and before electing higher-level courses. Courses through the 6000 level may be elected in the final year, providing the proper prerequisites have been taken. At least twelve of the thirty-two credits must be taken in residence.

Cognate Requirements: Candidates for the bachelor of arts degree in biological sciences are required to take CHM 1220, 1230, 1240, 1250, and STA 1020 or MAT 2210, and MAT 1800.

Suggested Program

NOTE: In addition to the courses outlined below, students must elect sufficient additional credits to achieve the minimum 120 credits required for graduation.

‘Approved Course’ in the program below may be any course approved by the College as satisfying the University General Education and College Group Requirements.

First Year

Fall Semester
BIO 1500: Cr. 4(L)
CHM 1220 (PS): Cr. 4
CHM 1230: Cr. 1
MAT 1800: Cr. 4
Approved Course: Cr. 3
UGE 1000 (GE): Cr. 1
Total credits: 16

Winter Semester
BIO 1510 (LS): Cr. 4
CHM 1240: Cr. 4
CHM 1250: Cr. 1
MAT 2010: Cr. 4
Approved Course: Cr. 3
Approved Course: Cr. 3
Total credits: 16

Second Year

Fall Semester
BIO 2600: Cr. 3
PHY 2130: Cr. 3
PHY 2131: Cr. 1
Approved Course: Cr. 4
Approved Course: Cr. 3
Total credits: 14

Winter Semester
BIO 3100: Cr. 3
PHY 2140: Cr. 3
PHY 2141: Cr. 1
Approved Course: Cr. 4
Approved Course: Cr. 3
Total credits: 14

*For requirements, see the Wayne State University Graduate Bulletin.

1. Students should declare their major during the second year.
Bachelor of Science in Biological Sciences

The Bachelor of Science degree is for those students who wish to follow a career in the sciences and/or those planning to enter postgraduate professional schools. Students contemplating a major program in biological sciences should consult with the departmental undergraduate adviser no later than the beginning of the sophomore year. Students must declare their major after completing BIO 2600, and before electing higher-level courses. The student will specialize in one of three overlapping curricular tracks: Biomedical, Biotechnology, and Biodiversity. The major program incorporates all of the regular College Group Requirements.

Admission Requirements: See above, under Bachelor of Arts degree.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete at least 120 credits in course work including satisfaction of the College Group Requirements (see page 381) and the University General Education Requirements (see page 23), as well as the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381. Students must receive a grade of ‘C-minus’ or better in all biology courses. A grade point average of 2.0 (‘C’) in both biology and general required courses is required for graduation.

Major Requirements: A minimum of thirty-two credits beyond BIO 1500 and 1510 are required of the major. Suggested programs for each specialization track are shown below. Courses through the 6000 level may be elected during the final year, providing the proper prerequisites have been taken. At least twelve of the thirty-two credits must be taken in residence.

Cognate Requirements for the B.S. Degree: B.S. majors in biological sciences must include CHM 1220, 1230, 1240, 1250, 2220, 2230, 2280, 2290, PHY 2130 and 2140 or PHY 2170 and 2180, and MAT 2010, 2020, and 2210 or STA 1020 in their curricula. Majors should take the placement examination of the Department of Mathematics as soon as possible upon entry into the freshman year.

Suggested Programs

BIOMEDICAL TRACK

The Biomedical Track is intended for students planning careers in medicine and health care, as well as in biomedical research. The emphasis is on cell biology and physiology and provides a solid foundation in cellular and physiological processes underlying human health and disease. This track is designed to enhance success in aptitude tests for medical school and other professional schools.

‘Approved Course’ in the program below may be any course approved by the College as satisfying the University General Education and College Group Requirements.

First Year

Fall Semester
BIO 1500: Cr. 4
CHM 1220 (PS): Cr. 4
CHM 1230: Cr. 1
MAT 1800: Cr. 4
Approved Course: Cr. 3
Total credits: 16

Winter Semester
BIO 1510 (LS): Cr. 4
CHM 1240: Cr. 4
CHM 1250: Cr. 1
MAT 2010: Cr. 4
Approved Course: Cr. 3
Total credits: 16

Second Year

Fall Semester
BIO 2600: Cr. 3
CHM 2220: Cr. 4
CHM 2230: Cr. 1
Approved Course: Cr. 3
Approved Course: Cr. 3
Total credits: 14

Winter Semester
BIO 3070: Cr. 4
CHM 2280: Cr. 4
CHM 2290: Cr. 1
Approved Course: Cr. 3
Approved Course: Cr. 3
Total credits: 15

Third Year

Fall Semester
BIO 3100: Cr. 3
PHY 2130-2131: Cr. 4
(or PHY 2170-2171)
BIO elective: Cr. 4
Approved Course: Cr. 4
Total credits: 15

Winter Semester
BIO 4120: Cr. 4
PHY 2140-2141: Cr. 4
(or PHY 2180-2181)
BIO elective: Cr. 4

1. Students should declare their major during the second year.
Approved Course: Cr. 3
Total credits: 15

Fourth Year

Fall Semester
BIO elective: Cr. 4
BIO elective: Cr. 3
Approved Course: Cr. 3
Approved Course: Cr. 4
Total credits: 14

Winter Semester
BIO 4200: Cr. 3
BIO elective: Cr. 4
Approved Course: Cr. 4
Approved Course: Cr. 4
Total credits: 15

Electives: The following courses constitute some suggested electives for the Biomedical Track: BIO 5080, 5610, 5620, 5630, 5640, 5680, 5750, 6000, 6010, 6030, 6070, 6690.

BIOTECHNOLOGY TRACK

The Biotechnology Track is designed for students interested in careers in biotechnology and molecular medicine, in the private and academic sectors. The curricular emphasis is on molecular biology and genetics, microbiology, and emerging areas such as bioinformatics and genomics.

‘Approved Course’ in the program below may be any course approved by the College as satisfying the University General Education and College Group Requirements.

First Year

Fall Semester
BIO 1500: Cr. 4
CHM 1220 (PS): Cr. 4
CHM 1230: Cr. 1
MAT 1800: Cr. 4
Approved Course: Cr. 3
Total credits: 16

Winter Semester
BIO 1510 (LS): Cr. 4
CHM 1240: Cr. 4
CHM 1250: Cr. 1
MAT 2010: Cr. 4
Approved Course: Cr. 3
Total credits: 16

Second Year1

Fall Semester
BIO 2200: Cr. 4
CHM 2220: Cr. 4
CHM 2230: Cr. 1
Approved Course: Cr. 3
Approved Course: Cr. 3
Total credits: 15

Winter Semester
BIO 2600: Cr. 3
CHM 2280: Cr. 4
CHM 2290: Cr. 1
Approved Course: Cr. 3
Approved Course: Cr. 3
Total credits: 14

Third Year

Fall Semester
BIO 3070: Cr. 4
BIO 3100: Cr. 3
PHY 2130-2131: Cr. 4
(or PHY 2170-2171)
Approved Course: Cr. 4
Total credits: 15

Winter Semester
BIO 4110: Cr. 4
BIO elective: Cr. 3
PHY 2140-2141: Cr. 4
(or PHY 2180-2181)
Approved Course: Cr. 4
Total credits: 15

Fourth Year

Fall Semester
BIO elective: Cr. 4
BIO elective: Cr. 3
Approved Course: Cr. 4
Approved Course: Cr. 4
Total credits: 14

Winter Semester
BIO 4200: Cr. 3
BIO elective: Cr. 4
Approved Course: Cr. 4
Approved Course: Cr. 4
Total credits: 15

Electives: The following courses constitute some suggested electives for the Biotechnology Track: BIO 5330, 6000, 6010, 6060, 6070, 6120, 6330.

BIODIVERSITY TRACK

The Biodiversity Track emphasizes principles of ecology, evolution, and systematics. It provides the student with a solid foundation for environmental biology and for investigating factors underlying evolutionary change and generation diversity.

‘Approved Course’ in the program below may be any course approved by the College as satisfying the University General Education and College Group Requirements.

First Year

Fall Semester
BIO 1500: Cr. 4
CHM 1220 (PS): Cr. 4
CHM 1230: Cr. 1
MAT 1800: Cr. 4
Approved Course: Cr. 3
Total credits: 16

Winter Semester
BIO 1510 (LS): Cr. 4
CHM 1240: Cr. 4
CHM 1250: Cr. 1
MAT 2010: Cr. 4
Approved Course: Cr. 3
Total credits: 16

Second Year1

Fall Semester
BIO 2200: Cr. 4
CHM 2220: Cr. 4
CHM 2230: Cr. 1
Approved Course: Cr. 3
Approved Course: Cr. 3
Total credits: 15

Winter Semester
BIO 2600: Cr. 3
CHM 2280: Cr. 4
CHM 2290: Cr. 1
Approved Course: Cr. 3
Approved Course: Cr. 3
Total credits: 14

1. Students should declare their major during the second year.
Second Year

Fall Semester
BIO 2200: Cr. 4
CHM 2220: Cr. 4
CHM 2230: Cr. 1
Approved Course: Cr. 3
Approved Course: Cr. 3
Total credits: 15

Winter Semester
BIO 3100: Cr. 3
CHM 2290: Cr. 4
Approved Course: Cr. 3
Approved Course: Cr. 3
Total credits: 14

Third Year

Fall Semester
BIO 3070: Cr. 4
BIO 3100: Cr. 3
PHY 2130-2131: Cr. 4
(or PHY 2170-2171)
Approved Course: Cr. 4
Total credits: 15

Winter Semester
BIO 4130: Cr. 4
BIO elective: Cr. 3
PHY 2140-2141: Cr. 4
(or PHY 2180-2181)
Approved Course: Cr. 4
Total credits: 15

Fourth Year

Fall Semester
BIO 4200: Cr. 3
BIO elective: Cr. 4
Approved Course: Cr. 4
Approved Course: Cr. 4
Total credits: 15

Winter Semester
BIO elective: Cr. 3
BIO elective: Cr. 4
Approved Course: Cr. 4
Approved Course: Cr. 4
Total credits: 15

Electives: The following courses constitute some suggested electives for the Biodiversity Track: BIO 5040, 5080, 5100, 5550, 5700, 5720, 5740, 6060, 6090.

Bachelor’s Degree with Honors in Biological Sciences

The Department participates in the Honors Program and works with individual students to develop a curriculum satisfying the University’s goals and requirements as well as fulfilling the expectations of the Department. Students interested in an Honors Degree should contact the departmental advising office and/or the Chairperson of the Undergraduate Curriculum Committee.

‘AGRADE’ Program

The ‘AGRADE’ Program is designed for outstanding seniors who wish to complete bachelor’s and master’s degrees in five years of full-time study. For further details and eligibility requirements regarding the ‘AGRADE’ Program and Biological Sciences, contact the Department Advising Office, 1109 Biological Sciences Building.

Minor in Biological Sciences

Completion of the minor in biological sciences requires twenty-two or twenty-three biology course credits including the following: BIO 1500, 1510, 3070, 3120 and one from each of the following two pairs: BIO 2200 or 2600, and BIO 3100 or 3400.

Departmental Academic Policies

Combined Degree with Dentistry and Medicine: Students majoring in biological sciences who are candidates for a combined degree must complete the same requirements listed above for biological sciences majors except that a minimum of sixteen credits are required in biological sciences beyond Biological Sciences 1500 and 1510.

Over-Age Credits: A student attempting to complete a biological sciences major after a prolonged interruption of his/her education may find that some of the previous course work in biological sciences is out of date. In such cases, the record will be reviewed and the department may require the student to fulfill biological sciences course requirements existing at the time of his/her return.

Transfer Students should consult with the departmental undergraduate adviser during the semester prior to their transfer.

Determination of course equivalency will be made by the departmental undergraduate adviser in conjunction with the Transfer Credit Evaluation Unit of Undergraduate Admissions (Office of Admissions, University Welcome Center). The Department reserves the right for the final determination of course equivalency.

Transfer students contemplating a combined degree with dentistry or medicine must complete the same requirements listed above for biological science majors except that a minimum of twelve credits are required in residence in biological sciences beyond BIO 1500 and 1510.

Advanced Placement in Biological Sciences may be obtained by earning the following scores in the AP Qualifying Examination:

Score of 5: Credit is awarded for BIO 1500 and 1510 (eight credits). Students are eligible to enroll in subsequent courses providing the prerequisites for them have been met.

Score of 3 or 4: Credit is awarded for BIO 1510 (four credits). Students with a score of 3 or 4 are eligible to register in BIO 1500.

BIOLOGY COURSES (BIO)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

FEES: Most laboratory courses have a non-returnable materials fee and are so indicated in the Schedule of Classes. Breakage fees are not withheld, but students are financially responsible for the repair or replacement of University materials damaged or destroyed in classroom procedures.

1030  (LS) Biology Today. Cr. 3-4 (LCT: 3; OR LCT: 3;DSC: 1)
Not for biology major credit. Offered for four credits to Honors students only. Challenges to modern society from population growth, new diseases, environmental degradation, urban pollution; medical advances and ethical dilemmas in decoding human genome; impact of biological findings on political and personal decisions; issues considered in context of principles and strategies of modern biological research.

(F,W)
1050 (LS) An Introduction to Life.  
Cr. 3-4 (LCT: 3; OR LCT: 3; LAB: 3)  
Meets General Education Laboratory Requirement when elected for 4 credits. For the non-science major and certain pre-professional programs. A factual and conceptual treatment of modern biology at the cell, organismal, and population levels of organization. Material fee as indicated in the Schedule of Classes. (T)

1500 Basic Life Diversity. Cr. 4 (LAB: 3; LCT: 3)  
Prereq: high school biology, or BIO 1050. Required of all biological sciences majors. No credit after former BIO 1520. Physiology, ecology, evolution, and systematics, their principles, strategies and outcomes in both structure and function. Material fee as indicated in the Schedule of Classes. (T)

1510 (LS) Basic Life Mechanisms. Cr. 3-4 (LAB: 3; LCT: 3)  
Prereq: high school biology or BIO 1050. Only Engineering students may elect for three credits. BIO 1500 and BIO 1510 required of all biology majors. Factual and conceptual treatment of cell molecules, cell structure, metabolism, genetics, and development. For the science major and certain pre-professional programs. Meets General Education laboratory requirement. Material fee as indicated in the Schedule of Classes. (T)

2200 (LS) Introductory Microbiology. Cr. 4 (LAB: 4; LCT: 3)  
Prereq: BIO 1500 and 1510; CHE 2800 for chemical engineering students. Bacteria and their basic biology; the relationship of microorganisms to man and other living forms, including their ecological importance and their role in the causation of disease; laboratory exercises paralleling the above principles. Material fee as indicated in the Schedule of Classes. (T)

2600 Introduction to Cell Biology. Cr. 3  
Prereq: BIO 1500 and 1510. An advanced introduction to the structural and functional biology of the eucaryotic cell. Molecular, biochemical, and functional material learned in other courses reviewed and synthesized as it related to the cell. (T)

2870 Anatomy and Physiology. Cr. 5 (LAB: 4; LCT: 3)  
Prereq: BIO 1510. Systems, functions, organization of the mammal; emphasis on humans. Detailed study of structure and function of the major systems of the body: skeletal, nervous, muscular, endocrine, circulatory, respiratory, digestive, excretory, and reproductive. Material fee as indicated in the Schedule of Classes. (T)

2990 MARC Seminar. Cr. 1 (Max. 4)  
Prereq: consent of instructor. Open only to MARC trainees. Students in Minority Access to Research Careers program meet weekly to present assigned seminars on scientific topics of current interest; assigned readings from journals in the field; written synopsis of the assigned reading and oral presentation required. (F,W)

3070 Genetics. Cr. 4-5  
Prereq: BIO 2200. Offered for five credits to Honors students only; includes lab experience. Transmission, nature and action of genetic material in organisms. Laboratory experiments to demonstrate principles of genetics. Material fee as indicated in the Schedule of Classes. (T)

3100 Cellular Biochemistry. Cr. 3 (LCT: 3)  
Prereq: BIO 2200 or 2600 CHM 1220/1230 and CHM 1240/1250. Biosynthesis and metabolism of proteins, carbohydrates, lipids, steroids, amino acids and nucleic acids. The basic principles of enzyme kinetics in living systems. (T)

3990 Directed Study. Cr. 1-4 (Max. 8)  
Prereq: written consent of instructor and Departmental undergraduate officer; minimum 3.0 g.p.a. Only four credits may apply toward biology elective. Primarily for biology majors who wish to continue in a field beyond that covered in regular courses; to be taken under direction of Biological Sciences faculty. (T)

4110 Molecular Biology and Biotechnology. Cr. 4  
Prereq: BIO 3070, 2600. General principles of molecular biology of prokaryotes and eukaryotes. Emphasis on applications in biotechnology. (F,W)

4120 Principles of Physiology. Cr. 3 (LCT: 3)  
Prereq: BIO 2140 recommended. Fulfills General Education Writing Intensive Course in the Major requirement when elected with BIO 5993. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Physiological processes at the molecular, cellular, and organismal levels. Major physiological systems in mammals: metabolic regulation and system homeostasis. Lab consists of computer and web-based exercises that allow students to test and explore major conceptual themes in physiology in an interactive fashion. (T)

4130 (WI) Ecology. Cr. 4 (LAB: 3; LCT: 3)  
Prereq: MAT 1800 with grade of C or above. Principles of population, community, and systems ecology. Material fee as indicated in the Schedule of Classes. (T)

4200 Evolution. Cr. 3  
Prereq: completion of Core Courses; and BIO 4110, 4120, or 4130. Evidence for mechanisms of evolution at the molecular, organismal and population level. (F,W)

4600 Invertebrate Zoology. Cr. 4  
Prereq: completion of biology core curriculum courses or consent of instructor. Evolutionary history and phylogeny of invertebrata (exclusive of Protoista). Laboratory emphasis on systematics and type genera with additional demonstrations of phyletic diversity in form and function. (Y)

4710 Comparative Vertebrate Morphology and Evolution. Cr. 5 (LAB: 6; LCT: 3)  
Prereq: completion of biology core curriculum or consent of instructor. Vertebrate features of systems in the body used as fundamentals to understanding biological evolution. Philosophies of evolutionary biology, paleontology, and techniques of cladism and phylogenetic reconstruction. Material fee as indicated in the Schedule of Classes. (S)

5040 Biometry. Cr. 4 (LCT: 3; LAB: 3)  
Prereq: BIO 3070 or 3120; MAT 1800. Quantitative methods in biology. Statistical approach to data analysis and the design of experiments. Laboratory section permits actual analysis of selected statistical problems. (B)

5060 Special Topics. Cr. 1-6 (Max. 6)  
Prereq: BIO 1500 or consent of instructor. Formalized treatment of the current state of knowledge in a significant area of biology. Topics to be announced in Schedule of Classes. (Y)

5080 (PSY 5080) Cellular Basis of Animal Behavior. Cr. 3  
Relationship between behavior and neuroscience using a variety of animal models, each examined from the level of natural behavior progressively to the cellular level. Topics include: sensory systems, motor behavior, and learning. (W)

5180 Field Investigations in Biological Sciences. Cr. 2-12 (Max. 20) (FLD: 6)  
Prereq: 12 credits in biology, consent of instructor. Field studies of one to fifteen weeks, emphasizing biological principles and techniques demonstrated in the field. (S)

5330 Recombinant DNA I. Cr. 3  
Prereq: written consent of instructor. Review of origins of molecular biotechnology and its characteristic technologies; survey of applications of biotechnology to problems in industries. (F)
Prereq: BIO 1500 or 1520. Principles and methods of taxonomy and identification of native vascular plants. Material fee as indicated in the Schedule of Classes. (I)

5610 Structural Embryology. Cr. 1 (LAB: 4; LCT: 3)
Prereq: BIO 5620. Slides, models, and 4-D computer programs used to enable the student to know and recognize the cascade of structural changes that take place during the embryological developmental pathways. Material fee as indicated in the Schedule of Classes. (W)

5620 Developmental Biology. Cr. 3 (LCT: 3)
Prereq: BIO 3070. An analytical and comparative study of genetic and cellular mechanisms and their interaction with environmental factors to effect the developmental mechanisms which produce the adult organism. Origin and unfolding of structural patterns characteristic of different species; their evolutionary origins. (F)

5630 Histology. Cr. 4 (LAB: 4; LCT: 3)
Prereq: BIO 2870 or 3400. Characteristics and identification of normal mammalian tissues. Micro-anatomy of the mammal. Functional interpretation of microstructure and fine structure. Material fee as indicated in the Schedule of Classes. (F)

5640 Cancer Biology. Cr. 3 (LCT: 3)
Prereq: BIO 2200 or 3400; PHY 2140; CHM 2260 or consent of instructor. Introduction to integrated analysis of cancer and cell biology, pathology, etiology and therapy. (F)

5650 Basic Endocrinology. (BIO 5650) Cr. 3
Prereq: BIO 3220 or BIO 3400 or equiv., or coreq: PSL 7010. Basic description of the human endocrine system, the endocrine control of several physiologic processes (growth, development, metabolism and reproduction), and a description of common endocrine disorders. (F)

5670 Natural History of Vertebrates. Cr. 3
Prereq: 16 credits in biology. Life histories, survival and evolutionary strategies, laboratory and field identification, including study techniques of vertebrates; Michigan wildlife. Field trips. (I)

5720 Ornithology. Cr. 3 (LAB: 3; LCT: 2)
Prereq: BIO 1500 or 1520. Morphology, systematics, ecology, evolution, physiology and behavior of birds. Field trips. Material fee as indicated in the Schedule of Classes. (I)

5730 Mammalogy. Cr. 4 (LCT: 2; LAB: 6)
Prereq: 16 credits in biology. Systematics, geographical distribution, ecology, adaptive radiation, patterns of growth and reproduction, physiology. Field trips. Material fee as indicated in the Schedule of Classes. (S)

5740 Entomology. Cr. 4 (LAB: 6; LCT: 2)
Prereq: BIO 1500 or 1520. The systematics, classification, and functional morphology of insects; methods of collection and study of insect specimens. Material fee as indicated in the Schedule of Classes. (I)

5750 Biology of Aging. (BIO 7750) Cr. 3 (LCT: 3)
Prereq: BIO 3070 or consent of instructor. Aging and senescence viewed as fundamental biological processes common to most organisms. Empirically-based discussion of investigative methods and accepted facts regarding aging, coupled with critical discussion of behavioral and biological interventions believed to retard or reverse the aging process; critical analysis of theoretical interpretations of this data. (W)

Prereq: senior standing; satisfactory completion of English Proficiency Examination; consent of department; coreq: BIO 4120 or BIO 5997 or 6997. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a course designated as a corequisite. See Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. Students required to write three short papers (3-5 pp.) and one long paper (15-20 pp., not including bibliography) in addition to other writing requirements in each course. (T)

6000 Molecular Cell Biology I. Cr. 3 (LCT: 3)
Prereq: BIO 2600; PHY 2140; CHM 2260. Analysis of cell structure at the molecular and cellular levels and the physiological consequences of these structures: isolation, physico-chemical properties, and biological attributes of cells, organelles, and biopolymers including nucleic acids, proteins, and lipids. (F)

6010 Molecular Cell Biology II. Cr. 3 (LCT: 3)
Prereq: BIO 6000. Analysis of cell regulation at the molecular level. Cell development and differentiation. Genetic mechanisms including: DNA synthesis and repair, mechanism of gene expression and control. (W)

6020 Methods of Analyses. Cr. 2-4 (LCT: 2; or LAB: 6; LCT: 2)
Prereq: one year of chemistry and biology. Theory and application of instruments and procedures used in biological materials analysis. Topics include: error analysis, basic electronics, solutions and buffers spectroscopy, separation techniques, elemental analyses, laboratory application of computers. Material fee as indicated in the Schedule of Classes. (F)

6030 Physiological Genetics of Modern Disease. (BIO 7030) Cr. 3 (LCT: 3)
Prereq: BIO 3070. Physical and chemical properties of the genetic material; the fundamental mechanisms concerned with its replication, function, mutation, recombination and regulation; molecular basis of evolution. A critical presentation of interdisciplinary subjects of biology, biochemistry and biophysics in relation to recent advances in genetic engineering. (Y)

6060 Molecular Evolution. Cr. 3 (LCT: 3)
Prereq: BIO 3070 and 3090 or 3120. Patterns and processes of evolutionary change on the DNA sequence level. Emphasis on models of nucleotide substitutions, and genetic evolution. Methods of phylogenetic inference. (Y)

6070 Human Genetics. Cr. 3 (LCT: 3)
Prereq: BIO 3070. Mechanisms of human inheritance in individuals, families and populations. Sampling methods and data procurement. Statistical analysis of gene frequencies; cytotgenetics and biochemical determinations of phenotypes. (B)
6080  Microbial and Cellular Genetics. (BIO 7080)  
Cr. 4 (LCT: 4)  
Prereq: BIO 3070 or equiv. Principles and current progress in genetics at the molecular and cellular levels. Emphasis on those features of microorganisms and cultured animal and human cells appropriate for the study of the fundamental mechanisms concerning recombination, replication, metabolic functioning.  
6090  Evolutionary Genetics. Cr. 3 (LAB: 3; LCT: 2)  
Prereq: BIO 3070 and 3090 or 3120. Theoretical bases for micro-evolutionary change in natural populations of organisms; basic to study of evolutionary genetics and evolutionary ecology.  
6120  Molecular Biology Laboratory I. Cr. 3 (LCT: 1; LAB: 6)  
Prereq: BIO 6010 or written consent of instructor. Laboratory exercises illustrate methods and concepts of molecular biology and recombinant DNA analysis. Material fee as indicated in the Schedule of Classes.  
6160  Molecular and Cellular Biophysics. Cr. 3 (LCT: 3)  
Prereq: one year of biology, chemistry and physics. Analysis of the biologically important aspects of thermodynamics, chemical bonding, macromolecular structure, biomembranes and transport processes.  
6180  Membrane Biology. Cr. 3 (LCT: 3)  
Prereq: one year of biology and chemistry; BIO 2200 or 3400; 6000 or 6160 recommended. Comprehensive analysis of cellular and model membranes integrating molecular structure and physiological properties. Structural, dynamic, and physiological properties examined, including molecular and macromolecular assemblies, physical and chemical analysis of molecular motion, functional aspects including trans-membrane signaling.  
6210  Ecology/Evolution. Cr. 4  
Open only to middle- or high school teachers. Prereq: teaching certificate; mathematics through algebra. Ecological principles such as energy and nutrient flow demographics and populations; population genetics; genetics and phylogeny.  
6220  Biology of the Cell. Cr. 4  
Open only to middle- or high school teachers. Prereq: teaching certificate. Prokaryotic and eukaryotic cell structure and function; basic biology and recent advances.  
6230  Genetics. Cr. 4  
Open only to middle- or high school teachers. Prereq: teaching certificate; mathematics through algebra. Introductory prokaryotic and eukaryotic gene structures and functions of mechanisms of inheritance.  
6250  Biology Instruction for Teachers. Cr. 2 (Max. 10) (LCT: 2)  
Prereq: consent of instructor. Offered only for graduate credit; for teachers only. Discussion of basic biological principles in light of recent advances.  
6260  Laboratory Biology for Teachers. Cr. 1 (Max. 5) (LAB: 1)  
Prereq: consent of instructor. Offered only for graduate credit; for teachers only. Laboratory component of BIO 6250; basic laboratory techniques in light of recent advances in the biological sciences.  
6330  Recombinant DNA II. Cr. 3  
Prereq: BIO 5330 or written consent of instructor. Application of molecular biology and recombinant DNA technology of contemporary eukaryotic systems. Topics include: specialized application of PCR for cloning, generation of antibodies, the expression of recombinant proteins in cultured cells and transgenic animal models.  
6450  Aquatic Botany. Cr. 4 (LCT: 3; LAB: 3)  
Prereq: BIO 3120. Systematics, physiology and ecology of algae and higher aquatic plants. Material fee as indicated in the Schedule of Classes.
CHEMISTRY

Office: 221 Chemistry Building; 577-2559
Web: http://www.chem.wayne.edu
Chairperson: James H. Rigby
Associate Chairpersons: David M. Coleman, Charles H. Winter
Academic Services Officers: Sharon Kelley, Erin Scully

Professors

Associate Professors
Christine S. Chow, David M. Coleman, Theodore Goodson III, John Santa Lucia, Ronald R. Schroeder

Assistant Professors
Alexander V. Benderskii, David E. Benson, Stephanie Brock, Mary Kay Pflum, Maarten H.D. Postema, Mary T. Rodgers, Mark R. Spaller, Claudio N. Verani

Senior Lecturers
Ronald J. Baird, Michael Maguire, Regina Zibuck

Adjunct Professors

Adjunct Associate Professors
Hashem Akhavan-Tafti, Philip R. Cunningham, Evelyn M. Goldfield, Stephen A. Munk, Sean T. Murphy

Degree Programs
BACHELOR OF ARTS with a major in Chemistry
BACHELOR OF SCIENCE in Chemistry
BACHELOR OF SCIENCE in Chemistry with concentration in Biochemistry
*MASTER OF ARTS with a major in Chemistry
*MASTER OF SCIENCE with a major in Chemistry
*DOCTOR OF PHILOSOPHY with a major in Chemistry and concentrations in analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry

The courses offered by this department are designed to serve the needs of three distinct groups of students: (a) those majoring in chemistry with the intention of entering the chemical profession, (b) those majoring in chemistry with the intention of entering other professional fields, and (c) those majoring in other subjects who desire to elect chemistry courses as part of their programs. Students intending to major in chemistry should refer to the bachelor’s degree programs below.

Students with no prior experience in chemistry may elect Chemistry 1000 (for non-science majors); Chemistry 1020 (for non-science majors and certain pre-professional students); or Chemistry 1040, which is intended for students who need higher-level chemistry work but who fail to qualify for Chemistry 1220 or 1225 or whose math/science skills are weak. Students who have had a year or more of high school chemistry or the equivalent may register for Chemistry 1220 (or 1225) or 1410 (for science and preprofessional majors) provided that they meet the other eligibility requirements outlined below. Election of any one of these courses will satisfy the University General Education Requirement for a physical science.

Terminal Chemistry Courses: Chemistry 1000 is a terminal survey course designed primarily to acquaint non-science students with the principles of chemistry in a format requiring minimal mathematical skills. When elected for four credits, this course includes a laboratory which satisfies the University General Education Requirement for a laboratory course.

Chemistry 1020 and 1030 represent a terminal sequence designed to introduce the basic principles of chemistry and survey the various fields of chemistry for non-science majors and certain pre-professional students such as pre-nursing, occupational health, engineering technicians and others.

Foundational Chemistry: Chemistry 1040 is designed as the beginning chemistry course for science majors, pre-professional students, and other students who have had little prior experience in chemistry and/or mathematics. Chemistry 1220 (or 1225) and 1230 are complementary and corequisite courses which should be taken during the same term. Chemistry 1220 is a classroom-focused course which includes only lecture and related quiz/discussion sessions. Chemistry 1230 is a laboratory-focused course which includes laboratory and related lecture sessions. This also describes the succeeding corequisite sets Chemistry 1240 and 1250, Chemistry 2220 and 2230, and Chemistry 2280 and 2290.

General Chemistry: Chemistry 1220/1230 are designed as the beginning courses for science majors and pre-professional students who have a good background in high school chemistry. Chemistry 1225/1230 is the sequence for students in the College of Engineering. Eligibility for Chemistry 1220/1230 must be established by passing a qualifying examination, covering basic high school material, which is administered by Testing and Evaluation, 698 Student Center Building. The qualifying examination is administered several times prior to and during registration.

Chemistry 1410 is the highest level beginning course in chemistry and usually is elected by chemistry majors or by students who have a strong background in high school chemistry and plan to take at least one year of college chemistry. To qualify for Chemistry 1410, a student must receive a superior score on the Chemistry 1220 Placement Examination, or receive a score of 3 or better on the National Advanced Placement Exam in Chemistry (see below), or show other evidence of superior academic potential (receipt of Wayne State Scholarship, admission to the Honors Program, etc.). The two-course sequence Chemistry 1410 and 1420 is equivalent to Chemistry 1220/1230. The sequence of Chemistry 1220/1230 and 1240/1250, or 1410 and 1420, are prerequisite to all higher numbered courses in chemistry.

Credit for Advanced Placement: Advanced placement college credit in chemistry shall be awarded for scores earned in the chemistry qualifying examination as follows:
Score of 4 or 5: Credit awarded for Chemistry 1220/1230 and 2280 (eight credits); student is eligible to enroll in Chemistry 1240 or 1420.
Score of 3: Credit awarded for Chemistry 1220/1230 (five credits); student is eligible to enroll in either Chemistry 1240 or 1410.

* For requirements, see the Wayne State University Graduate Bulletin.
Bachelor of Arts with a Major in Chemistry

This curriculum allows students to major with a maximum of forty-six credits in chemistry while providing flexibility for exposure in other cognate fields. This degree is appropriate for students in science-oriented pre-professional programs such as medicine and dentistry, as well as for students entering secondary science teaching. For individuals interested in entering a graduate program in chemistry or pursuing a position in the chemical industry upon graduation, it is recommended that the additional requirements for professional certification by the American Chemical Society (outlined below) be completed.

Those interested in Phi Beta Kappa should consult with the secretary of the Wayne State University Chapter in order to determine the maximum amount of credits allowed in the major, as well as other general requirements.

Admission requirements for the College are satisfied by the general requirements for undergraduate admission to the University; page 15. Students planning to major in chemistry should consult with an adviser in the Chemistry Department not later than the beginning of their sophomore year.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Arts degree must complete 120 credits in course work. This must include satisfying the University General Education Requirements (see page 23) and the College Group Requirements (see page 381), as well as the major requirements cited below. All course work must be completed in accordance with the academic procedures of the University and the College; see sections beginning on page 23, 38, and 381.

**Major Requirements:** Those who wish to follow the general curriculum in the College of Science for the B.A. degree with a major in chemistry must complete the following courses:

1. Chemistry 1220/1230, 1240/1250, 2220/2230, 2280/2290, 3020, 5400 (or 5420 or 5440), 5550, 5600, and at least one of the following: 5160, 5440, 5510, 6040, 6240, 6440, 6620 or 6640. A minimum of fifteen credits in chemistry must be earned at Wayne State University. Qualified students may substitute 1410 and 1420 for 1220/1230, 1240/1250, 2220/2230.


4. Language requirement: three semesters of any language (German, French, or Russian preferred).

ACS Certification: B.A. candidates may receive certification by the American Chemical Society upon graduation by completing Mathematics 2150 and 2250 or 2350, as well as the following chemistry courses in addition to those required for the B.A. degree: Chemistry 5420 and 5440 (rather than 5400), 5160, and two additional advanced laboratory courses (5510, 5570, 5999).

To receive certification, students must submit an application along with a transcript to the Chemistry Department Curriculum Committee prior to the end of the final term.

**Recommended Program**

*Note:* Further changes in the chemistry curriculum are anticipated and may affect the courses included in the degree programs outlined in this Bulletin. Interested students should consult a chemistry undergraduate adviser for current requirements.

**First Year**

**Fall Semester**

UGE 1000 (GE): Cr. 1
CHM 1220/1230 (or 1410): Cr. 5-6
English 1020 (BC): Cr. 4
Mathematics 2010: Cr. 4

**Winter Semester**

CHM 1240/1250 (or 1420): Cr. 5-6
English (2000 level): Cr. 3
Mathematics 2030: Cr. 4
Group Requirement: Cr. 4
Total credits: 16-17

**Second Year**

**Fall Semester**

CHM 2220/2230: Cr. 5
Physics 2170/2171: Cr. 5
Mathematics 2030: Cr. 4
Group Requirement: Cr. 3
Total credits: 17

**Winter Semester**

CHM 2280/2290: Cr. 5
Physics 2180/2181: Cr. 5
Group Requirement: Cr. 3
Elective: Cr. 3
Total credits: 16

**Third Year**

**Fall Semester**

CHM 5600: Cr. 3
Language I: Cr. 4
Group Requirements: Cr. 7
Total credits: 14

**Winter Semester**

CHM 3020: Cr. 3
Mathematics 5400 (or 5420 or 5440): Cr. 3-4
Group Requirement: Cr. 4
Language II: Cr. 4
Total credits: 14-15

**Fourth Year**

**Fall Semester**

CHM Elective (or 5550): Cr. 2-4
Language III: Cr. 4
Electives: Cr. 8
Total credits: 14-16

**Winter Semester**

CHM 5550 (WI) (or CHM elective): Cr. 2-4
Electives: Cr. 9
Total credits: 11-13

--- With Honors in Chemistry ---

1. All B.A. requirements in chemistry must be fulfilled including a full year of physical chemistry (CHM 5420 and 5440) plus one additional elective (CHM 5160, 5510, 6620, or 6640).

2. Minimum g.p.a.: 3.3 overall; 3.3 in chemistry courses.

3. Minimum of four credits in independent research (Chemistry 2999 or 5999). Research should commence in the junior year (or earlier).

4. Completion of one semester of an Honors Program 4200-level seminar (consult the Schedule of Classes under ‘Honors Program’). This course may be used in partial fulfillment of college Group Requirements and can be elected in either the junior or senior year.

5. At least fifteen credits in honors-designated course work, including at least four credits in Chemistry 2999 and 5999; the recommended chemistry honors courses: the Honors Program HON 4200-level seminar; and honors credits in other departments or from the Honors Program.
6. Submission of a B.A. thesis or of a manuscript suitable for publication in a refereed chemical journal (covering the undergraduate research project) to the Honors Subcommittee in Chemistry which will act to accept or reject the thesis (or manuscript).

7. An oral examination covering the B.A. Honors Research Project, by the Honors Subcommittee in Chemistry.

8. Chemistry 1410 and 1420 are strongly recommended for students intending to earn an Honors degree in Chemistry.

**Bachelor of Science in Chemistry**

This degree offers a strong background for students interested in a career in chemistry or in a professional field with a strong reliance on chemistry. It is particularly recommended for students planning to do graduate work in chemistry and chemically-related fields. The degree is offered with two options: 1) Bachelor of Science in Chemistry, and 2) Bachelor of Science in Chemistry with a concentration in biochemistry. The first option is designed primarily for those planning to enter the chemical profession and other professional fields. The second option is designed primarily for students planning careers in biochemical and biomedical areas. Students may take a maximum of forty-six credits in chemistry. (Note: Those interested in Phi Beta Kappa should consult with the secretary of the Wayne State University Chapter in order to determine the maximum number of chemistry credits allowed.)

**Admission Requirements** are satisfied by the general requirements for undergraduate admission to the University; see page 15. Students planning to major in chemistry should consult with an adviser in the Chemistry Department not later than the beginning of their sophomore year.

**Degree Requirements:** Candidates for the Bachelor of Science in Chemistry degree must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 23) and the College Group Requirements (see page 381), as well as the major requirements cited below. All course work must be completed in accordance with the academic procedures of the University and the College; see sections beginning on page 23, 38, and 381.

**Major Requirements for Option One:** Those who wish to follow the curriculum in the College for the B.S. in Chemistry degree must complete the following courses:

1. Chemistry 1220/1230, 1240/1250, 2220/2230, 2280/2290, 3020, 5020, 5160, 5420, 5440, 5450, 5510, 5550, 5600, 5570 and any one of the following: 6040, 6240, 6440, 6620 or 6640. By the first semester of the senior year, the student must enroll for at least two credits in Senior Research in Chemistry (CHM 5999 or 5998). The student must work under the direction of a faculty member of the Department of Chemistry. It is advised that the student consult with the faculty during the term prior to beginning work, in order to choose the area and staff member under whose direction this research will be carried out. At the conclusion of the project, the student must present a written report for approval by the Chairperson of the Department.

2. Mathematics 2010, 2020, 2030, and 2150 (or 2250 or 2350).

3. Language requirement: three semesters of any language (German, French, or Russian are preferred).

At least fifteen credits in chemistry plus Senior Research (Chemistry 5999) must be earned at Wayne State University. Superior students may substitute 1410 and 1420 for 1220/1230, 1240/1250, and 2220/2230. Reducing the number of required hours in chemistry will permit such students to elect chemical research (Chemistry 2999) as early as the summer following the freshman year.

**Recommended Program**

*Note:* Further changes in the chemistry curriculum are anticipated and may affect the courses included in the degree programs outlined in this Bulletin. Interested students should consult a chemistry undergraduate adviser for current requirements.

**First Year**

**Fall Semester**

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<tr>
<td>UGE 1000 (GE)</td>
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<tr>
<td>CHM 1220/1230 (or 1410)</td>
<td>Cr. 5-6</td>
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**Winter Semester**

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<td>CHM 1240/1250 (or 1420)</td>
<td>Cr. 5-6</td>
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<tr>
<td>English (2000 level)</td>
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<td>Mathematics 2020</td>
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**Second Year**

**Fall Semester**

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<tbody>
<tr>
<td>CHM 2220/2230</td>
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**Winter Semester**

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<td>Cr. 5</td>
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**Third Year**

**Fall Semester**

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<tr>
<td>CHM 5510</td>
<td>Cr. 2</td>
</tr>
<tr>
<td>MAT 2150 (or 2250 or 2350)</td>
<td>Cr. 3-4</td>
</tr>
<tr>
<td>Language I</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>Group Requirement</td>
<td>Cr. 3</td>
</tr>
<tr>
<td>Total credits: 15-16</td>
<td></td>
</tr>
</tbody>
</table>

**Winter Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 5440</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>CHM 5550</td>
<td>Cr. 2</td>
</tr>
<tr>
<td>Language II</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>Group Requirement</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>Total credits: 14</td>
<td></td>
</tr>
</tbody>
</table>

**Fourth Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 5020</td>
<td>Cr. 3</td>
</tr>
<tr>
<td>CHM 5999 (or 5998)</td>
<td>Cr. 2-4</td>
</tr>
<tr>
<td>Language III</td>
<td>Cr. 4</td>
</tr>
<tr>
<td>CHM 5160</td>
<td>Cr. 3</td>
</tr>
<tr>
<td>Total credits: 12-14</td>
<td></td>
</tr>
</tbody>
</table>

**Winter Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced CHM Course</td>
<td>1 Cr. 3</td>
</tr>
<tr>
<td>CHM 5570</td>
<td>Cr. 2</td>
</tr>
<tr>
<td>Group Requirements</td>
<td>Cr. 9</td>
</tr>
<tr>
<td>Total credits: 14</td>
<td></td>
</tr>
</tbody>
</table>

**Substitutions in B.S. in Chemistry Curriculum (Option One only):** In recognition of the diverse backgrounds required for various careers in chemistry, students may petition the Chemistry Curriculum
Committee for approval to substitute advanced courses numbered 5000 or above from another discipline (such as physics, mathematics, biology, engineering) for the following B.S. requirements: (1) Mathematics 2150 (or 2250 or 2350); (2) Chemistry 5510 and 5570; (3) Chemistry elective. Such petitions for substitutions must be submitted in writing accompanied by a detailed statement of justification and a current transcript, and must be approved prior to registration in the alternative courses. Decisions regarding approval of such requests will be based on their legitimacy in terms of the student’s professional goals. It is suggested that students consult the Chairperson of the Chemistry Curriculum Committee before filing such a petition.

**Major Requirements for Option Two (Biochemistry):** Those who wish to follow the curriculum for the B.S. in Chemistry with a concentration in biochemistry must complete the following courses (NO substitutions are allowed in the Option Two program: B.S. in Chemistry with a concentration in biochemistry):

1. Chemistry 1220/1230, 1240/1250, 2220/2230, 2280/2290, 3020, 5020, 5160, 5400, 5550, 5570, 6610, 6620 and 6640. In addition, students must enroll in one of the following: Chemistry 5510, Mathematics 2150, 2250, or 2350. By the first semester of the senior year, the student must enroll for at least two credits in Senior Research in Chemistry (CHM 5999 or 5998). The student must work under the direction of a faculty member of the Department of Chemistry. It is advised that the student consult with the faculty during the term prior to beginning work, in order to choose the area and staff member under whose direction this research will be carried out. At the conclusion of the project, the student must present a written report for approval by the Chairperson of the Department.

3. Biology 1510, 2200, and 3070 or 6000.
5. Language requirement: three semesters of any language (German, French, or Russian are preferred).

At least fifteen credits in chemistry plus Senior Research (Chemistry 2999) must be earned at Wayne State University. Superior students may substitute 1410 and 1420 for 1220/1230, 1240/1250, and 2220/2230. Reducing the number of required hours in chemistry will permit such students to elect chemical research (Chemistry 2999) as early as the summer following the freshman year.

**Recommended Program**

**Note:** Further changes in the chemistry curriculum are anticipated and may affect the courses included in the degree programs outlined in this Bulletin. Interested students should consult a chemistry undergraduate adviser for current requirements.

**First Year**

**Fall Semester**
- UGE 1000 (GE): Cr. 1
- CHM 1220/1230 (or 1410): Cr. 5-6
- English 1020 or 1050 (BC): Cr. 4
- Mathematics 2010: Cr. 4
- Group Requirement: Cr. 3
- Total credits: 17-18

**Winter Semester**
- CHM 1240/1250 (or 1420): Cr. 5-6
- English (2000 level): Cr. 3
- Mathematics 2020: Cr. 4
- Biology 1510: Cr. 4
- Total credits: 16-17

**Second Year**

**Fall Semester**
- CHM 2220/2230: Cr. 5
- Group Requirement: Cr. 3

**Winter Semester**
- CHM 2280/2290: Cr. 5
- Mathematics 2030: Cr. 4
- Physics 2170/2171: Cr. 5
- Total credits: 17

**Third Year**

**Fall Semester**
- CHM 3020: Cr. 3
- Biology 3070 or 6000: Cr. 3-4
- Group Requirements: Cr. 6
- Language I: Cr. 4
- Total credits: 16-17

**Winter Semester**
- CHM 5040: Cr. 4
- CHM 5550: Cr. 2
- CHM or MAT option: Cr. 2-4
- Language II: Cr. 4
- Group Requirement: Cr. 3
- Total credits: 15-17

**Fourth Year**

**Fall Semester**
- CHM 5020: Cr. 3
- CHM 5160: Cr. 3; Cr.
- CHM 5999 (or 5998): Cr. 2
- Language III: Cr. 4; Cr.
- Group Requirements: Cr. 3
- Total credits: 15

**Winter Semester**
- CHM 5640: Cr. 3
- CHM 5610: Cr. 3
- CHM 5998 or 5999 (optional): Cr. (2)
- Group Requirements: Cr. 3
- CHM 5570: Cr. 3
- Total credits: 12-14

--- With Honors in Chemistry ---

1. All regular requirements for the Bachelor of Science in Chemistry degree must be fulfilled (no substitutions).
2. Minimum g.p.a.: 3.3 overall; 3.3 in chemistry courses.
3. Minimum of four credits must be earned in independent research (Chemistry 2999, 5998); this should commence in the junior year (or earlier).
4. Completion of one semester of an Honors Program HON 4200-level seminar (consult the Schedule of Classes under ‘Honors Program’). This course may be used to partially fulfill college Group Requirements and can be elected in either the junior or senior year.
5. Submission of a B.S. thesis (covering the undergraduate independent research project), or of a manuscript suitable for publication in a refereed chemical journal, to the Honors Subcommittee in Chemistry which will act to accept or reject the thesis (or manuscript).
6. An oral examination covering the B.S. Honors Research Project, by the Honors Subcommittee in Chemistry.
7. Chemistry 1410 and 1420 are strongly recommended for students intending to obtain an honors degree.
Minor in Chemistry

Students majoring in other fields who desire to obtain a minor in chemistry must complete the following courses: Chemistry 1220/1230, 1240/1250, 2220/2230, 2280/2290, and at least nine additional credits earned at Wayne State University in Chemistry courses numbered 3000 or above, excluding seminar and research courses (CHM 2999, 4850, 5999, etc.). Typically, the latter nine credits could be satisfied by electing some combination of: Chemistry 3020, 5620, 5160, 5400, 5420, 5440, 5600, 6440, or 6640. Superior students may substitute Chemistry 1410 and 1420 for Chemistry 1220/1230, 1240/1250, and 2220/2230.

Financial Aid

Also see Office of Scholarships and Financial Aid, page 20.

James C. French Endowed Undergraduate Chemistry Scholarship:
Award open to any undergraduate chemistry major enrolled for at least eight credits. Selection is based primarily on scholastic achievement and secondarily on basis of financial need. Award is to be used for educational expenses, including tuition, books, fees. Application deadline is April 3; contact the Chemistry Department, 221 Chemistry Building.

Jane and Frank Warchol Foundation Scholarship:
Award open to full-time or part-time undergraduate or graduate students majoring in chemistry. Selection is based on scholastic achievement as well as on the basis of financial need. Applicants of Polish descent and applicants expressing strong entrepreneurial goals will be favored in the award process. Application deadline is April 3; contact the Chemistry Department, 221 Chemistry Building.

George H. Wheatley Scholarship:
Award open to full-time undergraduate or graduate students majoring in chemistry with a minimum 3.0 g.p.a. Application deadline is April 3; contact the Chemistry Department, 221 Chemistry Building.

CHEMISTRY COURSES (CHM)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

NOTE: A minimum grade of ‘C’ is required in every prerequisite course.

FEES: Most laboratory courses have a non-refundable materials fee and are so indicated in the Schedule of Classes. Students are financially responsible only for the repair or replacement of University materials lost, damaged, or destroyed in classroom procedures.

1000 (PS) Chemistry and Your World. Cr. 3-4 (LCT: 3;LAB: 3)
Meets General Education Laboratory Requirement when elected for 4 credits. Facts and theories from analytical, inorganic, organic, and physical chemistry, and from biochemistry; their consequences in life processes and the environment. Material fee as indicated in Schedule of Classes. (F,W)

1020 (PS) General Chemistry I. Cr. 4 (LCT: 3;QUZ: 1;LAB: 3)
Prereq: intermediate high school algebra recommended. Meets General Education Laboratory Requirement. High school chemistry not required. First course in the terminal sequence consisting of CHM 1020 and CHM 1030. Matter and energy in chemistry, chemical symbols and equations, structure and properties of atoms, introduction to chemical bonding; periodicity in chemistry, solids, liquids, gases, solutions, acids and bases, and equilibrium. Material fee as indicated in Schedule of Classes. (F,W)

1030 General Chemistry II. Cr. 4 (LCT: 3;QUZ: 1;LAB: 3)
Prereq: CHM 1020. Organic and biological chemistry; brief introduction to organic chemistry, emphasizing classes of compounds important in biochemical processes; survey of biochemistry with applications to nutrition, physiology, and clinical chemistry; protein structure; intermediary metabolism; molecular biology; and metabolic regulation. Material fee as indicated in Schedule of Classes. (F,W)

1040 Chemistry Skills and Reasoning. Cr. 4
Prereq: placement by examination. No credit after any other chemistry course. Reasoning and mathematical skills needed for development of a scientific approach in chemistry. (F,W)

1220 (PS) Chemical Structure, Bonding and Reactivity. Cr. 4
Prereq: passing score on chemistry placement exam or CHM 1040; placement beyond MAT 0995; prereq. or coreq. CHM 1230. Satisfies General Education laboratory requirement upon completion of both CHM 1220 and 1230. Introduction to principles of chemistry for students with high school background in chemistry. (T)

1225 (PS) Chemical Structure, Bonding and Reactivity. Cr. 3
Prereq: passing score on chemistry placement exam or CHM 1040; placement beyond MAT 0995; prereq. or coreq. CHM 1230. Open only to students in College of Engineering. Satisfies General Education laboratory requirement upon completion of both CHM 1225 and 1230. Introduction to principles of chemistry for students with high school background in chemistry. (T)

1230 Chemical Principles in the Laboratory. Cr. 1
Prereq: passing score on chemistry placement exam or CHM 1040; placement beyond MAT 0995. Satisfies General Education laboratory requirement upon completion of both CHM 1220 or 1225, and CHM 1230. Laboratory course to introduce the scientific method, properties of materials, the role of energy, structure and spectroscopy. Material fee as indicated in Schedule of Classes. (T)

1240 Principles of General/Organic Chemistry. Cr. 4
Prereq: CHM 1220 and 1230 or equiv.; prereq. or coreq. CHM 1250. Introductory organic chemistry combined with the general principles of chemistry. Carbon compounds and chemical bonding, acid-based chemistry, stereochemistry and introductory organic reactions. (T)

1250 General/Organic Chemistry Laboratory. Cr. 1
Prereq: CHM 1230 or equiv.; prereq. or coreq. CHM 1240. Integrated general/organic chemistry laboratory focusing on spectroscopy, acid-based chemistry, molecular modeling and organic reactions as well as some attention to chromatography. Material fee as indicated in Schedule of Classes. (T)

1410 (PS) Chemical Principles I: General/Organic Chemistry. Cr. 6
Prereq: two years of high school chemistry; or advanced placement in chemistry with a score of 3, 4, or 5, or Presidential Scholar status; or outstanding performance on Chemistry Placement Exam; or consent of instructor. Meets General Education laboratory requirement. Accelerated approach to blended general/organic chemistry. Material fee as indicated in Schedule of Classes. (F)

1420 Chemical Principles II: Organic Chemistry. Cr. 6
Prereq: CHM 1410 or equiv. Accelerated approach to organic/bioorganic chemistry. Material fee as indicated in Schedule of Classes. (W)

2220 Organic Chemistry. Cr. 3
Prereq: CHM 1240 and 1250 or equiv.; prereq. or coreq. CHM 2230. Organic reactions of functional groups such as aldehydes, ketones and related carbonyl compounds. Extensive discussion of the interface of organic/biochemistry and bioorganic chemistry. (T)

2230 Preparative Organic Chemistry Laboratory. Cr. 2
Prereq: CHM 1250 or equiv.; prereq. or coreq. CHM 2220. Synthesis of organic and bioorganic compounds. Material fee as indicated in Schedule of Classes. (T)
2280 Chemical/Analytical Principles. Cr. 3
Prereq: CHM 1240 and 1250, or 1410, or equiv.; prereq. or coreq: CHM 2290. Concepts and calculations regarding kinetics, equilibrium, thermodynamics for a variety of reaction types. Qualitative and quantitative examples and applications. (T)

2290 Chemical/Analytical Principles Laboratory. Cr. 2
Prereq: CHM 1240 and 1250 or equiv.; prereq. or coreq: CHM 2280. Study and use of acid-base redox, solubility precipitation, and complex forming reactions and equilibria in qualitative and quantitative chemistry. Material fee as indicated in Schedule of Classes. (T)

2999 Honors Research Problems in Chemistry. Cr. 2-4
Prereq: CHM 1080 or 1320 or equiv., and consent of chairperson. Research projects under the direction of a senior faculty member. (T)

3020 Intermediate Inorganic Chemistry I. Cr. 3 (LCT: 3)
Prereq: CHM 1240 or equiv. Emphasizes chemistry of the main group elements and includes basic coordination chemistry of the transition metals. (F,W)

4850 Frontiers in Chemistry. (CHM 8850) Cr. 1 (Max. 2)
Prereq: junior or senior Chemistry major. Offered for S and U grades only. Fields of fundamental chemistry now under investigation, presented by invited specialists actively engaged in research. (F,W)

5020 Intermediate Inorganic Chemistry II. Cr. 3
Prereq: CHM 3020 and 5420 or 5400 or 5440 or equiv. Transition metal chemistry. Coordination compounds and organometallics. Bonding theories and reactivity; Synthesis, purification, and characterization of inorganic compounds with an emphasis on transition metal compounds. (F)

5160 Instrumental Analytical Chemistry. Cr. 3
Prereq: CHM 5400 or 5420 or 5440 or equiv.; PHY 2180 or equiv. Required of B.S. and ACS-approved B.A. majors. Application of modern instrumental methods to quantitative analysis. Methods that relate instrumental response to chemical concentrations or content. Calibration, data handling, and data evaluation. Emission, flame, infrared, Raman, fluorescence, and magnetic resonance spectroscopy. Mass spectrometry. Electrochemical methods. Chromatography. (F)

5400 Biological Physical Chemistry. Cr. 4
Prereq: CHM 2280 or equiv., MAT 2020 or equiv.; prereq. or coreq: MAT 2030, PHY 2170 or equiv. Presentation of physical chemistry topics: thermodynamics, solution equilibria, chemical kinetics, quantum chemistry, spectroscopy, statistical mechanics, transport processes, and structure with biological applications. (W)

5420 Physical Chemistry I. Cr. 3
Prereq: CHM 2280, MAT 2020, or equiv.; prereq. or coreq: MAT 2030, PHY 2170 or equiv. Only two credits applicable toward degree after CHM 5400. Chemical thermodynamics, phase equilibrium, solutions, surface chemistry, electrochemistry. (F)

5440 Physical Chemistry II. Cr. 4
Prereq: CHM 2280, MAT 2020 or equiv.; prereq. or coreq: MAT 2030, PHY 2170 or equiv. Only three credits applicable to degree after CHM 5400. Kinetic theory, empirical and theoretical kinetics, quantum theory, atomic and molecular structure, molecular spectroscopy, statistical mechanics. (F,W)

5510 Chemical Synthesis Laboratory. Cr. 2
Prereq: CHM 1420, or 2220 and 2230 or equiv. Advanced techniques for the synthesis, purification and characterization of organic compounds. Material fee as indicated in the Schedule of Classes. (F,W)

5550 (WI) Physical Chemistry Laboratory. Cr. 2
Prereq. or coreq: CHM 5400 or 5420 or 5440 or equiv., and PHY 2180 or equiv. Principles of measurement. Fundamental investigations of thermodynamics. Fundamental spectroscopic and kinetic measurements. Material fee as indicated in the Schedule of Classes. (F,W)

5570 Instrumental Analytical Chemistry Laboratory. Cr. 3 LCT:1;LAB:8
Prereq. or coreq: CHM 5160 or equiv. Lecture and laboratory experiments covering electronics, measurement, and instrumentation. Principles and analytical applications of electrochemistry, chromatography, and spectroscopy including UV-visible, IR, magnetic resonance, and mass spectroscopy. Material fee as indicated in the Schedule of Classes. (W)

5600 Survey of Biochemistry. Cr. 3

5780 Atoms, Molecules and Models. Cr. 3
Open only to middle- or high school teachers. Prereq: college chemistry and biology. Energetics, atomic theory, molecular theory, computer modeling, structure of small and large molecules. (I)

5998 Honors Thesis Research in Chemistry. Cr. 2-4 (Max. 8)
Prereq: consent of chairperson. Open only to students in College Honors Program with junior standing in chemistry program; elect no later than first senior semester. Original investigation under direction of senior staff member. Submission of B.S. thesis or manuscript in publication format. Presentation of public lecture on B.S. research. (T)

5999 Senior Research in Chemistry. Cr. 2-4 (Max. 8)
Prereq: consent of chairperson. Open only to students with junior standing in chemistry program; must be elected no later than first senior semester. Original investigation under direction of senior staff member. Submission of B.S. thesis or manuscript in publication format. (T)

6040 Chemical Applications of Group Theory. (CHM 7040) Cr. 3
Prereq: CHM 5020 and 5440 or equiv. Symmetry in chemical systems, development and use of character tables. Application of group theory to structure, bonding, spectroscopy and reactions. (I)

6240 Organic Spectroscopy. (CHM 7240) Cr. 3
Prereq: CHM 1420 or 2220 or equiv. Application of IR, NMR, UV, and mass spectrometry to the identification of organic compounds. Emphasis on interpretation of spectra, especially NMR. Recommended for students intending to do graduate or industrial work in organic chemistry. (W)

6340 (PHC 6340) Chemical Basis of Pharmacology. (BIO 6840) Cr. 3
Prereq: CHM 1420 or 2220 and BIO 1510 or equiv. Mechanisms of action and metabolism of commonly-used drugs and toxic substances from the cellular level to whole biological systems. (I)

6440 Computational Chemistry. (CHM 7440) Cr. 3
Prereq: CHM 5440 or equiv. Aspects of computational chemistry pertinent to effective use of molecular modeling techniques. Molecular mechanics, semi-empirical and ab initio calculations, molecular dynamics. Material fee as indicated in the Schedule of Classes. (B)

6610 Biological Chemistry Laboratory. Cr. 3
Prereq: CHM 6620 or equiv. Open only to chemistry majors. Basic experiments in isolation, purification, and analysis of biomolecules. Techniques currently used in molecular biology and recombinant DNA procedures stressed. (Y)
6620  Metabolism: Pathways and Regulation. (CHM 7620) Cr. 3
Prereq: CHM 2200 or equiv. Major metabolic pathways of carbohydrate, fatty acid, amino acid, and nucleotide synthesis and degradation. Pathways and mechanisms of energy generation. Hormonal and allosteric regulation of enzyme activity. Cannot be used to satisfy the graduate proficiency requirement in biochemistry.  (F)

6640  Molecular Biology. (CHM 7640) Cr. 3
Prereq: CHM 6620 or equiv. Nucleic acid structure and function. Mechanism and control of replication, transcription, and translation. Mutation, genetic recombination, and recombinant DNA. Membranes and organelles.  (W)

6740  Laboratory Safety. Cr. 1-2
Not for chemistry major credit. Offered for S and U grades only. Required for all graduate degrees in chemistry. Discussion and demonstration of safe laboratory practice. Use, storage and disposal of ordinary and hazardous substances; personal protection devices; regulations and codes.  (F)

6750  Glassblowing. Cr. 1
Prereq: graduate standing or consent of instructor. Offered for S and U grades only. Introduction to the fundamentals of glassblowing as applied to the repair and fabrication of scientific equipment in the research laboratory. Material fee as indicated in the Schedule of Classes.  (I)

6990  Directed Study. Cr. 1-4 (Max. 8)
Prereq: undergrad., consent of adviser; grad., consent of adviser and graduate officer.  (T)

COMPUTER SCIENCE
Office: 431 State Hall; 577-2477
Interim Chairperson: William L. Hase
Associate Chairperson: Farshad Fotouhi
Administrative Assistant: Judith Lechvar
Web: http://www.cs.wayne.edu

Professors
Narendra Goel, Vaclav Rajlich, Robert G. Reynolds

Associate Professors
Farshad Fotouhi, Loren Schwiebert, Frank Stomp, Seymour J. Wolfson

Assistant Professors
Monica Brockmeyer, Ming Dong, Sorin Draghici, David Hart, Shiyong Lu, Weisong Shi, Sherali Zeadally

Assistant Professor (Research)
Jon Brewster

Lecturers
Suzanne Jennings, Monika Witoslawski

Degree Programs
BACHELOR OF ARTS with a Major in Computer Science
BACHELOR OF ARTS with a Major in Information Systems
BACHELOR OF SCIENCE in Computer Science
POST BACHELOR CERTIFICATE in Computer Science
*GRADUATE CERTIFICATE in Scientific Computing
*MASTER OF ARTS with a Major in Computer Science
*MASTER OF SCIENCE with a Major in Computer Science
*DOCTOR OF PHILOSOPHY with a Major in Computer Science

The Department of Computer Science teaches the principles of design, use and development of computing and information systems. Underlying concepts are emphasized which give students the flexibility to manage the ever-increasing complexity of this rapidly-changing field. The objective of the Department is to provide a learning environment which fosters the development of computer scientists possessing strong fundamental concepts and good mathematical backgrounds. To facilitate this instruction, the Department has at its command an array of hardware and software resources; see 'Facilities,' page 408.

BACHELOR’S DEGREE PROGRAMS
Admission requirements for the College are satisfied by the general requirements for undergraduate admission to the University; see page 15. Students planning to major in computer science should consult with a departmental adviser as soon as possible and no later than the beginning of their sophomore year. In general, the requirements in effect when a student declares a major in computer science will be those that the student must satisfy. Students should check with the department for the latest information concerning the program and requirements. Sample recommended programs of study for each of the degree programs are provided below.

Major course sequence outlines are available in the department for guidance in meeting degree requirements.

* For requirements, see the Wayne State University Graduate Bulletin.
Admission following an interruption in enrollment: A student attempting to complete a computer science major after a prolonged interruption of his/her education may find that some of his/her course work in computer science is out of date. In this case, the record will be reviewed and the department may require the student to fulfill additional computer science course requirements existing at the time of his/her return, and/or to retake some courses previously taken.

Transfer students should consult with the undergraduate departmental adviser during the semester prior to their transfer. Determination of course equivalency will be made by the Transfer Credit Evaluation Unit in conjunction with the undergraduate faculty adviser. The department reserves the right of final determination of course equivalency.

Introductory Course Work: The Department of Computer Science offers a number of courses introducing students to basic computer and computing concepts. Some of these courses also serve as prerequisites for more advanced study in computer science. Most of the introductory courses require mathematics preparation equivalent to MAT 0995 or MAT 1800. (See course descriptions regarding the required prerequisites, page 422.) CSC 1000 is for non-majors who desire to learn BASIC and it fulfills the General Education Computer Literacy requirement. Students who intend to major or minor in computer science will not normally take this course. Only courses at the 3000 level or above may be used to complete the CSC elective requirement.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete at least 120 credits in course work, including satisfaction of the University General Education Requirements (see page 23) and the College Group Requirements (see page 381). All course work must be completed in accordance with the regulations of the University governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381.

Bachelor of Science in Computer Science

The Bachelor of Science curriculum provides a strong academic foundation in computer science. The program is designed for students whose primary interest is in the study of computers and computer systems, and is the recommended preparation for those interested in pursuing graduate studies in computer science.

Admission Requirements: See above.

DEGREE REQUIREMENTS: See above.

COURSE REQUIREMENTS:
2. Computer Science course work as follows:
   (a) Computer Science 1100, 1500, 2110, 2200, 3200, 4100, 4110, 4420, 4500, and 4996.
   (b) Four additional Computer Science courses numbered 3000 or above, of at least three credits each, excluding CSC 4990 and 4995.
   (c) A minimum of twenty-seven credits in computer science must be earned at Wayne State University.
   (d) A minimum grade of ‘C’ is required in CSC 1100, 1500, and 2110, respectively.

Students declaring their major must consult an adviser for a written assessment of current requirements.

Recommended Program

First Year

Fall Semester
CSC 1100 (CL): Cr. 4
UGE 1000 (GE): Cr. 1
ENG 1020 (BC): Cr. 4
MAT 2010: Cr. 4

Winter Semester
CSC 1500 (CL): Cr. 3
CSC 2110 (CL): Cr. 4
MAT 2020: Cr. 4
ENG (IC) course: 1 Cr. 3
Total credits: 14

Second Year

Fall Semester
CSC 2200 (CL): Cr. 4
MAT 2210: Cr. 4
Group Requirement: 1 Cr. 3
(CT) course: 1 Cr. 3
Total credits: 14

Winter Semester
CSC 3200: Cr. 3
MAT 2250: Cr. 4
Group Requirement: 1 Cr. 3
Group Requirement: 1 Cr. 3
Group Requirement: 1 Cr. 3
Total credits: 16

Third Year

Fall Semester
CSC 4110: Cr. 3: Cr. 3
CSC 4100: Cr. 4: Cr. 4
Group Requirement: 1 Cr. 3
Group Requirement: 1 Cr. 3
Group Requirement: 1 Cr. 3
Total credits: 16

Winter Semester
CSC 4500: Cr. 3
CSC 4420: Cr. 3
CSC (3000-level or above): Cr. 3
Group Requirement: 1 Cr. 3
Group Requirement: 1 Cr. 3
Group Requirement: 1 Cr. 3
Total credits: 15

Fourth Year

Fall Semester
CSC (3000-level or above): Cr. 3
CSC (3000-level or above): Cr. 3
Group Requirement: 1 Cr. 3
Group Requirement: 1 Cr. 3
Group Requirement: 1 Cr. 3
Total credits: 15

Winter Semester
CSC 4996 (WI): Cr. 2
CSC (3000-level or above): Cr. 3
Group Requirement: 1 Cr. 3
Group Requirement: 1 Cr. 3
Elective: Cr. 3
Total credits: 14

Minimum number of credits required for the degree: 120

1. Some General Education competency and group requirement courses may be four credits.
— With Honors in Computer Science
Students in the Honors Program are challenged by independent research work and by the close association and informal discussions with faculty and advanced graduate students. The Honors Program is open to students seeking the Bachelor of Science with a Major in Computer Science degree. A cumulative grade point average of at least 3.3 is required for consideration for admission to and continuance in the program. Students are admitted on the recommendation of the Honors Program Adviser. Interested students should contact the Honors Program Adviser and complete the Honors Plan of Work form when declaring their computer science major or at the beginning of the senior year. If a student has declared a major in computer science prior to entering the Honors Program, a new Declaration of Major must be completed for the Bachelor of Science with Honors.

Admission Requirements: See page 404.

DEGREE REQUIREMENTS: See page 404.

COURSE REQUIREMENTS:
2. Computer Science course work as follows:
   (a) Computer Science 1100, 1500, 2110, 2200, 3200, 4100, 4110, 4420, and 4996.
   (b) Three additional Computer Science courses of at least three credits each, numbered 3000 or above, excluding CSC 4990 and 4995.
   (c) A minimum of twenty-three credits in computer science must be earned at Wayne State University.
(d) A minimum grade of ‘C’ is required in CSC 1100, 1500 and 2110, respectively.

Students declaring their major should consult an adviser for a written assessment of current requirements.

Recommended Program

First Year
Fall Semester
CSC 1100 (CL): Cr. 3
UGE 1000 (GE): Cr. 1
ENG 1020 (BC): Cr. 4
MAT 2010: Cr. 4
(OC) course:1 Cr. 3
Total credits: 15

Winter Semester
CSC 1500 (CL): Cr. 3
CSC 2110 (CL): Cr. 4
ENG (IC) course:1 Cr. 3
MAT 2020: Cr. 4
(CT) course:1 Cr. 3
Total credits: 17

Second Year
Fall Semester
CSC 2200: Cr. 4
MAT 2210: Cr. 4
Group Requirement:1 Cr. 3
Group Requirement:1 Cr. 3
Total credits: 14

Winter Semester
CSC 3200: Cr. 3
Group Requirement:1 Cr. 3
Group Requirement:1 Cr. 3
Group Requirement:1 Cr. 3
Group Requirement:1 Cr. 3
Total credits: 15

Third Year
Fall Semester
CSC 4100: Cr. 4
Group Requirement:1 Cr. 3
Group Requirement:1 Cr. 3
Group Requirement:1 Cr. 3
Group Requirement:1 Cr. 3
Total credits: 16

Winter Semester
CSC 4110: Cr. 3
CSC 4420: Cr. 3
CSC (3000-level or above): Cr. 3
Group Requirement:1 3
Group Requirement:1 3
Total credits: 15

Fourth Year
Fall Semester
CSC (3000-level or above): Cr. 3
Group Requirement:1 Cr. 3
Elective: Cr. 3

1. Some General Education competency and group requirement courses may be four credits.
Elective: Cr.4
Total credits: 13

Winter Semester
CSC 4996 (WI): Cr.2
CSC (3000-level or above): Cr.3
Group Requirement: Cr.3

Winter Semester
CSC 4996 (WI): Cr.2
CSC (3000-level or above): Cr.3
Group Requirement: Cr.3
Elective: Cr.3
Total credits: 14

Minimum number of credits required for the degree: 120

Bachelor of Arts
with a Major in Information Systems
This degree differs from the Bachelor of Arts with a Major in Computer Science in that it prescribes carefully integrated study encompassing computer science and a specific area of application selected by the student. The curriculum is designed to provide students not only with a good background in computer science but also with the essential concepts of systems analysis and design required for particular applications. A corequisite part of the program involves a fundamental orientation in the discipline in which the computer science skills are to be applied.

The cognate specialization is to be selected from other fields (for example, business, library science, the social or natural sciences, medicine) either within the College of Science or from other University divisions. Course work in the specific application area will be developed in consultation with the appropriate department and must be approved by the Computer Science Undergraduate Committee to assure a coherent plan of study properly integrating computer science and the intended field of endeavor.

Admissions Requirements: See page 404.

DEGREE REQUIREMENTS: See page 404.

COURSE REQUIREMENTS:
2. Computer Science 1100, 1500, 2110, 2200, 3200, 4100, 4110, 4420, 4710, and 4996.
3. A minimum of eighteen credits of course work approved by the Computer Science Undergraduate Committee in a specific application area. It is expected that much of this course work will be related to the intended application of computer technology in the applied area. The area of application need not be limited to subjects taught in the College.
4. A minimum of twenty credits in computer science must be earned at Wayne State University.
5. A minimum grade of 'C' is required in CSC 1100, 1500 and 2110.

Prior to declaring their major, students should consult an adviser for a written assessment of the current requirements.

Recommended Program

First Year
Fall Semester
CSC 1100 (CL): Cr.4
UGE 1000 (GE): Cr.1
ENG 1020 (BC): Cr.4
MAT 2010: Cr.4
(OC) course: Cr.3
Total credits: 16

Winter Semester
CSC 1500: Cr.3
ENG (IC) course: Cr.3
MAT 2020: Cr.4
(CT) course: Cr.3
Total credits: 13

Second Year
Fall Semester
CSC 2110 (CL): Cr.4
MAT 2210: Cr.4
Group Requirement: Cr.3
Group Requirement: Cr.3
Group Requirement: Cr.3
Total credits: 17

Winter Semester
CSC 2200: Cr.4
Group Requirement: Cr.3
Group Requirement: Cr.3
Group Requirement: Cr.3
Group Requirement: Cr.3
Total credits: 16

Third Year
Fall Semester
CSC 3200: Cr.3
CSC 4100: Cr.4
Group Requirement: Cr.3
Group Requirement: Cr.3
Group Requirement: Cr.3
Total credits: 13

Winter Semester
CSC 4110: Cr.3
CSC 4420: Cr.3
Cognate elective: Cr.3
Group Requirement: Cr.3
Group Requirement: Cr.3
Total credits: 15

Fourth Year
Fall Semester
CSC 4710: Cr.3
Cognate elective: Cr.3
Cognate elective: Cr.3
Cognate elective: Cr.3
Group Requirement: Cr.3
Total credits: 15

Winter Semester
CSC 4996 (WI): Cr.2
Cognate elective: Cr.3
Cognate elective: Cr.3
Group Requirement: Cr.4
Group Requirement: Cr.3
Total credits: 15

Minimum number of credits required for the degree: 120

Cooperative Work-Study Program
Students who wish to enrich their education with practical computer science experience may enroll in the Cooperative Work-Study Program. In this program, full-time study terms alternate with full-time work assignments in cooperating industries. The Co-op experience provides two benefits: industrial work experience which can be

1. Some General Education competency and group requirements may be four credits.
included in a resume, and the possibility of being offered a full-time position with the co-op employer, upon graduation. The program takes place over a two-year period where students usually enter the program in their junior year, and most of the work assignments are in the metropolitan Detroit area. A student may enroll for no more than one course with the approval of the College Co-op Coordinator during those terms in which he/she is on a work assignment. Each term that a student is on a work assignment he/she must enroll the following term in Computer Science 4995, Professional Practice in Computer Science. An oral and written report covering each work assignment is required of the student and performance on the job is rated by the industrial supervisor. Salaries and other benefits are paid for by the employer based upon the time spent on each work assignment. The student must be a computer science major. For details and enrollment procedures, contact the College Co-op Coordinator at the Career Planning and Placement office.

Minor in Computer Science

The Minor Program provides a background in computer science for students who are majoring in other fields of study in the College.

**COURSE REQUIREMENTS:**

2. Computer Science course work as follows:
   (a) Computer Science 1100, 1500, 2110, and 2200.
   (b) One additional Computer Science course numbered 3000 or above, excluding CSC 4990 and 4995, to complete the required eighteen CSC credits.
   (c) A minimum of twelve credits in computer science must be earned at Wayne State University.
   (d) A minimum grade of ‘C’ is required in CSC 1100, 1500 and 2110, respectively.

Students declaring their minor should consult an adviser for a written assessment of current requirements.

Students may wish to modify the Minor Program to fit their special needs. For any changes or adjustments to the above course requirements, students should contact one of the departmental undergraduate advisers for approval.

‘AGRADE’ — Accelerated Graduate Enrollment

This program enables qualified seniors to enroll simultaneously in the undergraduate and graduate programs and apply a maximum of fifteen credits towards both the bachelor’s and master’s degrees. Students electing the ‘AGRADE’ Program may expect to complete the bachelor’s and master’s degrees in five years of full-time study.

**Admission Requirements:** An ‘AGRADE’ applicant may petition the Graduate Committee of the Computer Science Department for acceptance into the program no earlier than the first semester in which ninety credits will be completed. Following Departmental Graduate Committee approval, students must seek the approval of the Graduate Officer of the College. Applicants must have an overall grade point average (g.p.a.) at the Cum Laude level and a 3.6 g.p.a. or better in the major courses already completed. If the student’s petition is accepted, the student’s faculty adviser shall develop a graduate Plan of Work, specifying ‘AGRADE’ courses to be included in subsequent semesters.

Post Bachelor Certificate in Computer Science

The Certificate Program in Computer Science is designed for students who have obtained an undergraduate or graduate degree in another discipline from an accredited university, and who now desire undergraduate-level competence in computer science skills. Students whose background includes the courses which satisfy College Group Requirements (see page 381) will generally apply for a second bachelor’s degree rather than the Certificate in Computer Science.

The Post Bachelor Certificate Program provides a certificate which verifies the completion of the technical courses required for the Bachelor of Arts with a Major in Computer Science.

**Admission:** Students who have received their undergraduate degree from Wayne State University should apply directly to the University Advising Center. Two copies of the student’s transcript must be submitted to the university adviser as part of the admission process.

Students who have received their undergraduate degrees from another institution must complete the Application for Undergraduate Admission form and request that official transcripts from the college or university granting the degree be sent directly to the Office of Admissions.

**CERTIFICATE REQUIREMENTS:** Candidates for this certificate must achieve a level of competence in mathematics and computer science equivalent to completion of fifty-one credits in university course work as set forth in the following program. Prior preparation at the undergraduate level as evidenced in the transcript notation or by demonstrable proficiency may be used to satisfy any of these requirements, except that twenty-three credits in computer science, either as transfer credit to this program or as Post Bachelor Certificate credit, must be earned at Wayne State University. The content requirements for this program are as follows:

1. A bachelor’s degree or its equivalent in some discipline other than computer science with a grade point average of at least 2.0 from an accredited institution.
3. Computer Science course work as follows:
   (a) Computer Science 1100, 1500, 2110, 2200, 3200, 4100, 4110, 4420, and 4996.
   (b) Three additional Computer Science courses of at least three credits each, numbered 3000 or above, excluding CSC 4990 and 4995.
   (c) A minimum of twenty-three credits in computer science course work must be completed at Wayne State University with a g.p.a. of at least 2.5.

Students should consult an adviser for a written assessment of current certificate requirements. Although not required for a certificate, please note that CSC 4500 is required for admission to the graduate program.

Research and Instructional Laboratories

The Department of Computer Science operates a number of teaching and research laboratories. Research laboratories are organized around individual fields of research interest. The teaching laboratories are supported by the Department and are available to all students for class work and research. Current lab descriptions may be found at: http://www.cs.wayne.edu/labs/

Financial Aid

Also see Office of Scholarships and Financial Aid, page 20.

*Stephen P. Hepler Award:* Award of $1000 open to any computer science major with at least sophomore standing. Application deadline is March 17.

*John P. Stieber Endowed Scholarship Fund:* Award open to any part-time or full-time undergraduate upper-division student majoring in computer science, who is a U.S. citizen and has a minimum 3.0 g.p.a.; awarded on the basis of scholastic achievement and leadership.
MichCon—Leon Atchison Scholarship: Award open to any minority student majoring in accounting, chemical engineering, mechanical engineering, or computer science from the MichCon service area; student must have a minimum 2.5 g.p.a., be a U.S. citizen, and demonstrate financial need. Application deadline is April 30; contact the Office of Scholarships and Financial Aid.

Weingarten Scholarship Award: Award of $500, open to any part-time or full-time undergraduate majoring in computer science with sophomore standing, a minimum 3.0 g.p.a., who is a U.S. citizen and has demonstrated qualities of leadership and outstanding scholastic achievement. Application deadline is March 17; contact the Department for further information.

**COMPUTER SCIENCE COURSES (CSC)**

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

**0995 Coop Work Experience. Cr. 0**
Offered for S and U grades only. Open only to computer science students. No degree credit. May not be used to satisfy undergraduate computer science elective requirements. Review of computer science practical experiences resulting from participation in coop/ internship program.

**1000 (CL) Introduction to Computer Science. Cr. 3**
Prereq: placement out of MAT 0995. No credit after any other programming course. Not for computer science majors. Brief introduction to problem solving: analysis, design, implementation and testing using a general purpose structured programming language. Introduction to use of text editors, word processors, spreadsheets, data bases, and telecommunications. (T)

**1050 (CL) Introduction to C and Unix. Cr. 2**
Prereq: MAT 1800. No credit for computer science students after CSC 1100. Introduction to Unix, vi editor, and C Programming Language. Unix development tools and fundamentals of C language discussed. (T)

**1100 (CL) Problem Solving and Programming. Cr. 4**
Prereq: placement out of MAT 1800. Problem solving with algorithms, and their realization as computer programs using a structured, general purpose, programming language; data types, operators, expressions, assignment, input and output, selection and replication control structures; modularity and procedural abstraction using functions with parameters; structured data types array and string. (T)

**1140 (CL) Introduction to COBOL. Cr. 3**
Prereq: CSC 1000. Problems in business applications: editing, transaction analysis, file update, report generation, tape and disk files, COBOL specification and implementation of sequential, indexed, direct and relative file organizations and their related access methods. (T)

**1500 (CL) Fundamental Structures in Computer Science. Cr. 3**
Prereq: CSC 1100 and MAT 2010. Introduction to fundamental control and data structures in computer science. Algorithms and complexity, recursive algorithms, program correctness using the predicate calculus, reasoning about algorithms using mathematical induction, probability theory and computing with random variables, generation of permutations and combinations, divide and conquer algorithms, recurrence relations, set properties and their computation, computing with relations, graph properties and their computation, tree properties and their computation, boolean algebra with applications to circuit design. (T)

**2000 Introduction to C++ Programming Language. Cr. 3**
Prereq: placement out of MAT 1800 and CSC 1000. Elements of C++; classes and objects; arrays, pointers and references; operators and friends; inheritance; derived classes; polymorphism; virtual functions. (I)

**2110 (CL) Introduction to Data Structures and Abstraction. Cr. 4**
Prereq: CSC 1100 and MAT 2210. Introduction to data abstraction; design of abstract data types stack, queue and list using array and dynamic linked list representations; recursive functions; searching and sorting algorithms. (T)

**2200 Data Structures and Algorithm Analysis. Cr. 4**
Prereq: CSC 1500, 2110, MAT 2210. Introduction to analysis of algorithms. Data structures for trees, sets, graphs; external sorting algorithms; hashing; files; advanced tree structures. (T)

**3100 Computer Organization. Cr. 3**
Prereq: CSC 1500, 2110 or 5050. Data representation; assembly language programming; addressing, subroutine and parameters, input/output programming, interrupts and direct memory access; linkers and loaders. (F/W)

**3200 Programming Languages. Cr. 3**
Prereq: CSC 2200. History and overview of programming languages, virtual machines, representation of data types; sequence control; data control, sharing and type checking; run-time storage management; language translation systems; programming language semantics; programming paradigms. (T)

**3400 Human-Computer Communication. Cr. 3**
Prereq: CSC 2200. Devices, user interfaces, menu systems, command languages, features of common interface toolkits, window programming, hypertext systems, fundamentals of computer graphics. Material fee as indicated in the Schedule of Classes. (Y)

**3750 Introduction to the Internet. Cr. 3**
Prereq: CSC 1000 or equiv. No credit after CSC 5750. Understanding the Internet using several access methods; required software and tools. Topics include: e-mail, FTP, Telnet, Gopher, Archie, Newsgroups, WWW, HTML, how to create an active web site. Laboratory exercises required. (F/W)

**4100 Computer Architecture. Cr. 4**
Prereq: CSC 2110 or 5050. Offered for undergraduate major credit only. Data representation; digital logic circuits; instruction formats and addressing modes; register transfer and microoperations; microprogrammed control; RISC architecture; memory organization; pipelined and vector processing; multiprocessors. (T)

**4110 Introduction to Software Engineering. Cr. 3**
Prereq: CSC 2200. Software life cycle; software requirement analysis; software system design; software implementation and testing; software maintenance; team programming; ethics and programmers. Material fee as indicated in the Schedule of Classes. (T)

**4420 Computer Operating Systems. Cr. 3**
Prereq: CSC 2200 and 4100. Offered for undergraduate major credit only. Operating system services; file systems; CPU scheduling; memory management; virtual memory; disk scheduling; deadlocks; concurrent processes. (T)

**4500 Introduction to Theoretical Computer Science. Cr. 3**
Prereq: CSC 2200 or 5050. Finite automata and regular expressions; context-free grammars; pushdown automata; Turing machines; hierarchy of formal languages and automata; computability and decidability. (T)

**4710 Information Systems Design. Cr. 3**
Prereq: CSC 2200, 4110. Structure of information systems; system analysis; database life cycle; conceptual modeling and implementation; relational model; network model; hierarchical model; design and
implementation of an information system utilizing a commercial database.

5490 Directed Study. Cr. 1-4 (Max. 8)
Prereq: written consent of instructor. Not for graduate credit. Individual study as agreed on by student and supervising faculty. Primarily for material not covered in regular courses. (Y)

4992 Special Topics in Computer Science. Cr. 1-3 (Max. 12)
Prereq: CSC 2110 or consent of instructor. Maximum of six credits may be applied to satisfying the computer science elective, in any computer science degree program. Topics to be announced in Schedule of Classes. (Y)

4995 Professional Practice in Computer Science. Cr. 1 (Max. 4)
Prereq: junior or senior standing. Offered for S and U grades only. Open only to computer science co-op students. Must be taken after each full-time co-op work assignment. May not be used to satisfy undergraduate computer science elective requirements. Review of computer science practical experiences resulting from participation in the cooperative work-study program. (T)

4996 (WI) Frontiers of Computing. Cr. 2
Prereq: senior standing in computer science. Selected topics from: artificial intelligence; software engineering; databases; distributed and parallel computing; computer vision and robotics; natural computing; computer graphics. (F,W)

4999 Honors Thesis. Cr. 3-6 (3 req.)
Prereq: senior standing, written consent of instructor. Offered for 6 credits with consent of thesis adviser and undergraduate committee. Independent study under supervision. (T)

5000 (SCP 7100) Scientific Systems Programming. (ECE 7225) Cr. 3
Not for CSC or ECE major credit. Prereq: working knowledge of Fortran or C or C++. Introduction to basic programming tools required for scientific computing, including advanced programming concepts, code optimizations, mathematical prototyping language, and basic system administration. (F)

5050 (ECE 4050) Algorithms and Data Structures. Cr. 4
Prereq: knowledge of C or C++ programming. Not for major credit. Introduction to problem solving methods and algorithm development; data abstraction for structures such as stacks, queues, linked lists, trees, and graphs; searching and sorting algorithms and their analysis. (T)

5250 Network, Distributed, and Concurrent Programming. Cr. 3
Prereq: CSC 4420. Advanced programming fundamentals for both shared-memory and non-shared-memory systems. (Y)

5710 Design of Intelligent Information Systems. Cr. 3
Prereq: CSC 4710, 5800. Object-oriented data modeling; intelligent office information systems; decision support systems; deductive databases; hypertext; specific applications in interfacing commercial databases and expert systems. (Y)

5750 Principles of Web Technology. Cr. 3
Prereq: CSC 3750 or senior or graduate standing. History and development of the world-wide web. Techniques for authoring static and dynamic content for the world-wide web. Web security techniques. Electronic commerce on the web. Lab exercises required. (F,W)

5800 Expert Systems: Tools and Languages. Cr. 3
Prereq: CSC 2200 or 5050. Survey of languages and tools for the development of expert systems applications. Introduction to functional, logical, and object-oriented programming and to various commercially available expert system environments; specific applications in areas of computer science, medicine, and engineering. (I)

5830 Computational Modeling of Complex Systems. Cr. 3
Prereq: knowledge of a programming language; MAT 2010. Introduction to computer methods useful for modeling complex systems which are refractory to traditional methods of analysis. Emphasis on problem formulation and concrete examples, especially examples drawn from biology. (I)

5860 Introduction to Pattern Recognition and Image Processing. Cr. 3
Prereq: senior standing. Model of a pattern recognition system; representation techniques for classifiers; parametric and nonparametric classification methods; clustering; fundamentals of image formation and acquisition; image enhancement methods; feature extraction for two-dimensional visual pattern recognition; document image processing and recognition. (Y)

5870 Computer Graphics I. Cr. 3
Prereq: CSC 2200 or 5050, MAT 2250. Graphics devices, graphics primitives, 2-D transformations, windowing and clipping, modeling 3-D objects, 3-D viewing transformations, hidden surface removal, shading and color. (Y)

5880 Principles of Natural Computing. Cr. 3
Prereq: senior or graduate standing. Introduction to basic principles of information processing in biological systems; similarities and differences between biological systems and computing machines; implication of biological information processing principles and mechanisms for artificial intelligence. (I)

5991 Special Topics in Computer Science. Cr. 1-4 (Max. 8)
Prereq: senior or graduate standing. Topics to be announced in Schedule of Classes. (I)

6110 Software Engineering. Cr. 3
Prereq: CSC 2200 or 5050. Software process models; advanced software system design; software project management; software analysis; testing and performance analysis; software maintenance; reverse engineering; software reuse; software metrics; object-oriented development. (Y)

6140 Knowledge-Based Software Engineering. Cr. 3
Prereq: CSC 4110 or 6110. Domain modeling and object-oriented analysis; formal requirements specification languages; construction of programs from formal specifications and correctness proofs; rapid prototyping; transformational approaches to program development; acquisition of software engineering knowledge; program comprehension; knowledge-based approaches to software maintenance and reuse; computer-supported cooperative work. (Y)

6170 Structure of Compilers I. Cr. 3
Prereq: CSC 4500 and 3200. Lexical analysis; syntactic analysis; error detection; translation into intermediate code; storage allocation; optimization techniques. (I)

6220 Parallel Computing I. (SCP 7300) Cr. 3
Prereq: CSC 4100 and either CSC 5050 or SCP 7100. Parallel computing concepts, examples of parallel computers, parallelism in algorithms / data / programs, experiences with state of the art parallel computers. (Y)

6280 Advanced Operating Systems. (ECE 5640) Cr. 4
Prereq: CSC 4420. Distributed operating system design issues including communication, synchronization, processes, file systems, and memory management; study and discussion of systems such as UNIX, MACH, AMOEBA, and CHORUS. (I)

6290 Data Communication and Computer Networks. Cr. 3
Prereq: CSC 5250. Data communication fundamentals and principles governing computer communication networks. Components of networks, how they are connected; basics of design and implementation of network protocols. (Y)
GEOLOGY
Office: 0224 Old Main; 577-2506

Associate Professors
Mark Baskaran, Jeffrey L. Howard

Lecturer
Edmond Van Hees

Degree Programs
BACHELOR OF ARTS with a major in geology
BACHELOR OF SCIENCE with a major in geology
*MASTER OF SCIENCE with a major in geology

Geology consists of studies of the materials of the earth and the processes to which they have been subjected, landscape features and their origins, and the history of the earth as recorded by rocks and fossils.

The courses in geology are planned to serve the needs of four groups of students: (1) those who desire a general knowledge of geology as part of a liberal education; (2) those who need geological information as a cognate subject in other professions; (3) those who wish to major in geology as part of a broad liberal education; and (4) those who plan to become professional geologists.

Introductory courses are primarily general, but they also provide a foundation in geology for the student who desires to continue an intensive program of study. Students with an interest in environmental problems will find a number of relevant courses among those offered by the Department of Geology. In addition, a variety of courses in various phases of geology is available to the general student. Intermediate and advanced courses are designed to develop the principles of geology beyond the elementary level and to give a firm technical foundation for advanced study.

Bachelor's Degrees: The Department of Geology offers undergraduate programs leading to a degree of Bachelor of Arts in Geology and Bachelor of Science in Geology. The Bachelor of Arts degree differs from the Bachelor of Science degree principally in the number and level of non-geology courses which the student is required to take. The Bachelor of Science degree is suited to the student who intends to become a professional geologist and is required for those students intending to do graduate work in geology.

Bachelor of Science
With a Major in Geology

Admission requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College Group Requirements (see page 381) and the University General Education Requirements (see page 23), as well as the major and cognate credits listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381.

* For specific requirements, see the Wayne State University Graduate Bulletin.
Major Requirements: Students must complete at least thirty-four credits in geology exclusive of the introductory courses (1000-level) and must include the following:
1. Twenty of the thirty-four credits from advanced courses (numbered 3000 and above).
2. Geology 2130, 3160, 3300, 3400, and 5993.
3. Six credits in field mapping and field techniques, to be fulfilled by completing six credits in a summer field course. If the Geology Department at Wayne State University does not offer a summer field course in any given year, students should complete the field course requirement by attending an approved field course at another university. In certain unusual circumstances the required six credits in field mapping and field techniques may be earned through an extended field-oriented research project when this project involves extensive field mapping and is under the direct supervision of a faculty member or other qualified field geologist throughout the duration of the field work.

Cognate Requirements: The program must include a year of mathematics (MAT 1800 and 2010 or equivalent), a year of physics (PHY 2130 and 2140, or 2170 and 2180, or equivalent), and a semester of chemistry (CHM 1220 and 1230 or equivalent). A semester of biology (BIO 1500 or equivalent) is strongly recommended. Although there are no required cognate courses beyond those listed above, geology majors should consult their adviser regarding cognate courses which might be of value to their particular program. Depending on interest and future goals, additional courses in mathematics, physics, and chemistry, as well as courses in biology, computer science, civil engineering, and geography might be of particular value.

Bachelor of Arts With a Major in Geology

Admission requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College Group Requirements (see page 381) and the University General Education Requirements (see page 23), as well as the major and cognate requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381.

Major Requirements: Students must complete twenty-six credits in geology beyond Geology 1020. These must include Geology 2130, 3160, 3300, 3400, and 5993, and at least two credits in a geology field course.

Cognate Requirements: At least one college course in each of two of the following fields is required: biology, chemistry, or physics. Mathematics 1800 and satisfaction of the Foreign Language Group Requirement are also required.

Geology majors should consult their adviser regarding additional recommended cognate courses. Depending on interest and future goals, supplementary courses in mathematics, physics and chemistry, as well as courses in biology, computer science, engineering, and geography might be of particular value.

Honors in Geology

The Honors Program in Geology is open to students of superior academic ability who are majoring in geology. To be recommended for an honors degree from this department, a student must maintain a cumulative grade point average of at least 3.3. He/she must accumulate at least fifteen credits in honors-designated course work and must demonstrate the ability to do independent study and an original Honors Thesis during the senior year. For information about the requirements of the department's honors curriculum, contact the Chairperson of the Department, or the Director of the Honors Program (877-3030).

Minor in Geology

The Department offers a minor in geology for undergraduate students. The minor consists of twenty credits in geology (usually consisting of four courses). Although desirable courses for a student's minor program should be determined in consultation with Geology Department staff members, the following restrictions and recommendations should be noted: The minor must include Geology 1010 and 1020. Geology 1000 and 1050 may only be applied for credit to a minor with the permission of the student's adviser in consultation with the Chairperson of the Department. At least four credits in the minor must be completed in courses at the 3000-level or higher. All minor programs must be approved by the Department Chairperson.

Anyone wishing to complete a minor in geology should contact one of the Department faculty members, or the Chairperson, as soon as possible, so that an appropriate program can be formulated.

Assistantships and Awards

Student Assistantships: A limited number of undergraduate student assistantships are available for academically superior students after they have completed sufficient coursework to qualify (usually senior standing).

Awards: The Geology Undergraduate Student Merit Award is presented to those undergraduate students who have excelled academically and who have made significant non-academic contributions to the Geology Department and/or the University. The award consists of a bronze plaque, a Brunton compass, and the recipient's name permanently inscribed and displayed on a special display board in the office of the Department of Geology.

GEOLOGY COURSES (GEL)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

1000  Geology and the Environment. Cr. 4
Primarily for non-science majors. Geological aspects of man's use of his environment including geological hazards; water; waste disposal; occurrence, use and depletion of natural resources. (T)

1010  (PS) Geology: The Science of the Earth. Cr. 4
Meets General Education Laboratory Requirement. Introduction to continental drift and plate tectonic theory, geophysics and structure of earth's crust and interior; rocks and minerals; igneous and volcanic geology; work of running water, glaciers and ground water; geologic time; oceanography. One day field trip. Lecture and required laboratory. Material fee as indicated in the Schedule of Classes. (T)

1020  Interpreting the Earth. Cr. 4
Prereq: GEL 1010 with grade of C or better recommended. Sedimentary rocks, sedimentary structures and fossils as tools for interpreting the history of the earth. Paleocology of the geologic past and the structure of the earth are emphasized. (Y)

1050  Oceanography. Cr. 4
Introductory course in oceanography; includes origin of the ocean basins; ocean currents, waves and tides; life in the oceans and marine ecology; food, mineral and energy resources of the sea. (Y)
1370 Meteorology: The Study of Weather. Cr. 3
Weather theory including cloud types, cloud formation; types and formation of winds; rain, snow, other precipitation. Storm theory; formation of and dangers in thunderstorms, hurricanes and tornadoes. Atmospheric phenomena: aurora, rainbows, the mirage, twinkling of stars, twilight crepuscular rays; weather forecasting, instruments, maps. (F)

2130 Mineralogy. Cr. 4
Prereq: one course in high school or college chemistry recommended. External morphology and internal arrangement of minerals. Identification of minerals by sight and simple physical and chemical properties. Properties and occurrences of major mineral groups. Material fee as indicated in the Schedule of Classes. (I)

3160 Petrology. Cr. 4
Prereq: GEL 1020, 2130, consent of instructor. Origin, occurrence, alterations, classification, methods for determination of important rocks based on megascopic and microscopic characteristics. Material fee as indicated in the Schedule of Classes. (F)

3300 Structural Geology. Cr. 4
Prereq: GEL 1020 and high school trigonometry or equiv. recommended. Description and interpretation of features which result from the origin or deformation of rock masses. Material fee as indicated in the Schedule of Classes. (W)

3400 Principles of Sedimentology and Stratigraphy. Cr. 4
Prereq: GEL 1020 and 2130. Processes which produce sediments, environments of deposition, changes after deposition. Relationship between tectonics and sedimentation. Origin of sedimentary strata. Facies and correlations. Material fee as indicated in the Schedule of Classes. (F)

3600 Special Topics in Geology. Cr. 3
Prereq: GEL 1010. Subjects of general interest to geology majors. Topics may include: soil and groundwater pollution; petroleum geology; engineering geology; geochronology; gems and minerals. (W,S)

3990 Directed Study. Cr. 1-6 (Max. 10)
Prereq: consent of instructor, adviser, and chairperson. (T)

4200 Geomorphology. Cr. 4
Prereq: GEL 1020. Principles underlying development of landforms by geologic agents. Material fee as indicated in the Schedule of Classes. (W)

4860 Research. Cr. 3-4 (Max. 8)
Prereq: consent of instructor, adviser, and chairperson. Primarily for honors students. Independent laboratory and field work. (T)

5000 Geological Site Assessment. (HWM 5000) Cr. 4
Prereq: GEL 1010; 1000 recommended. Classification of landforms and analysis of surficial geologic processes. Geophysical methods for subsurface analysis of soil and groundwater pollution. Application of remote sensing techniques in resource management. (Y)

5030 Earth Science for Educators. Cr. 4
Review of all major earth science concepts including: physical geology, oceanography, meteorology and astronomy. Material fee as indicated in the Schedule of Classes. (Y)

5080 Environmental Isotope Geochemistry. (HWM 5080) Cr. 3
Prereq: CHM 1070 and CHM 1080 or equiv.; PHY 2130 and PHY 2140, or PHY 2170 and PHY 2180, or equivs. Introduction to fundamentals of radiochemistry measurement techniques; survey of various applications of radionuclides in environmental science; brief discussion of the use of stable isotopes (O, C and H). (Y)

5120 Environmental Geochemistry. Cr. 4
Prereq: GEL 1010 and two semesters of college chemistry or equivalent. Survey of some of the geochemical interactions which take place in Earth environments (water, soils, atmosphere, etc.) brought about by natural and human-induced chemical processes. Material fee as indicated in the Schedule of Classes. (W)

5150 Soils and Soil Pollution. Cr. 4
Prereq: GEL 1010, CHM 1220 and 1230, CHM 2280 and 2290, or consent of instructor. Physical, chemical and mineralogical properties and classification of soils. Behavior of pollutants in soils and methods for reclamation. (Y)

5200 Oceanography for Educators. Cr. 4
Open only to middle- or high school teachers. Origin of the ocean basins; ocean currents, waves and tides; life in the oceans and marine ecology; marine resources and pollution. (S)

5400 Physical Geology for Educators. Cr. 4
Prereq: open only to middle-school and high school teachers. Origin and classification of minerals and rocks; theory of plate tectonics; landforms and surficial processes; earth interior; mountain building and structures. Material fee as indicated in the Schedule of Classes. (S)

5450 Hydrogeology. Cr. 4
Prereq: GEL 1010; or consent of instructor. Characteristics and behavior of groundwater in earth materials. Groundwater geology of southeastern Michigan. Water well technology and methods for exploration. (Y)

5993 (WI) Writing Intensive Course in Geology. Cr. 0
Prereq: junior standing; satisfactory completion of English Proficiency Examination; consent of instructor; coreq: GEL 3160 or 3300 or 3400 or 3450. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of faculty member. Must be selected in conjunction with course designated as corequisite. See section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement. (T)

6400 Geochronology. Cr. 4
Prereq: introductory courses in physics, chemistry, and geology. Introduction to various physical and chemical age dating methods used in geology. (F)

6500 Economic Geology. Cr. 4
Prereq: GEL 2130, 3160, 3300, 3400. Geology of metallic and nonmetallic mineral deposits, including important hydrocarbon deposits and their different tectonic settings. (Y)
HONORS PROGRAM

Office: 2311 Faculty/Administration Building; 577-3030
Director: Jerry Herron; 2311 Faculty/Administration Building; 577-3030
Adviser: Karen M. Gumey; 2136 Helen Newberry Joy Student Services Center; 577-2680
Web: http://www.cla.wayne.edu/honors

The Honors Program is designed for highly motivated students with superior abilities. Undergraduates in any college or department may, if eligible, take honors courses. Typically, honors classes are small and are taught by members of the regular faculty.

Eligibility: To enroll in honors courses, students must have at least a 3.3 cumulative grade point average at Wayne State University. Entering freshmen should have a high school grade point average of at least 3.5, and students transferring from a community college a 3.3 g.p.a. (Freshmen may substitute acceptable ACT or SAT scores for the g.p.a.) Continuing students with a 3.3 g.p.a. or better for twenty-four successive credits are also eligible to enter the Honors Program. Students may take as few as or as many honors courses as they wish, all courses are so noted on the transcript. Qualified students may elect: Honors Program courses, honors sections of departmental courses, departmental courses open only to honors students, honors thesis or essay or project courses, honors-option courses, courses with an honors component, and honors directed studies. Students normally will earn many of their honors-designated credits in courses that also fulfill University General Education Requirements (see page 23).

Honors Degrees
Students seeking a degree with Departmental Honors must contact their major department or the Honors Program Office for specific requirements (see the appropriate departmental section of this Bulletin). However, all departmental honors programs require (1) at least twelve credits in honors-designated course work, including (2) a senior essay or thesis or project done in the student’s major department, and (3) at least one 4200-level seminar offered through the Honors Program (HON 4200-4280). A g.p.a. of 3.3 (higher in some departments) is required for graduation as well, together with a 3.3 g.p.a. in Honors work. Any honors-designated course work may be included in the twelve honors credits.

Students pursuing a degree with University Honors will follow a course of study consisting of (1) at least twenty-four credits in honors-designated course work, including (2) a senior thesis or essay or project, and (3) one 4200-level seminar offered by the Honors Program (HON 4200–4280). A g.p.a. of 3.3 or higher is required for graduation, together with a 3.3 g.p.a. in Honors work. Any honors-designated course work may be included in the twenty-four honors credits.

A student who satisfactorily completes a Departmental Honors curriculum or University Honors will receive the appropriate Honors designation on both the diploma and the academic transcript. Approval of the Honors Program is necessary for graduation with Departmental or University Honors.

Additional Benefits of the Honors Program: Other features of the Honors Program include special faculty advising, guest lectures, participation in regional and national meetings of the National Collegiate Honors Council, an Honors Student Lounge (2311 Faculty/Administration Building), an Honors Group Study Room in the Undergraduate Library, and the opportunity to participate in Honors student groups such as the newsletter staff and the social activities committee. Honors majors may also receive research awards to support their senior theses or projects.

Honors Sections and Departmental Courses
The following departmental courses either have honors sections or are open only to honors students. These courses (when scheduled) will be listed under the Honors Program in the University Schedule of Classes. All departmental honors thesis or essay courses are listed under the respective departmental headings in this Bulletin and the Schedule of Classes. Full descriptions of courses in the following partial list may be found in the appropriate Departmental sections of this Bulletin.

ANT 2100 -- (SS) Introduction to Anthropology: Cr. 3-4
ANT 3110 -- Detroit Minorities: Arabs, Hispanics, African Americans: Cr. 3-4
ANT 4999 -- Honors Research and Thesis: Cr. 3-6
A H 1120 -- (VP) Renaissance through Modern Art Survey: Cr. 3-4
BIO 1030 -- (LS) Biology Today: Cr. 3-4
BIO 1050 -- (LS) An Introduction to Life: Cr. 3-4
BIO 1500 -- Basic Life Diversity: Cr. 4
BIO 1510 -- (LS) Basic Life Mechanisms: Cr. 3-4
BIO 6990 -- Honors Directed Study in Biology: Cr. 1-2
BIO 6997 -- Senior Seminar: Honors Program: Cr. 2
BIO 6999 -- Terminal Essay: Honors Program: Cr. 2
CHM 1410 -- (PS) Principles I: General and Organic: Cr. 6
CHM 1420 -- Principles II: Organic: Cr. 6
CHM 5998 -- Honors Thesis Research in Chemistry: Cr. 2-4
CLA 1010 -- (PL) Classical Civilization: Cr. 3-4
CLA 2000 -- Greek Mythology: Cr. 3-4
CLA 2100 -- Classical Origins of Western Thought: Cr. 3
CRJ 4998 -- Honors Thesis in Criminal Justice: Cr. 3-6
CSR 4999 -- Honors Thesis: Cr. 3-6
ECO 2010 -- (SS) Principles of Microeconomics: Cr. 3-4
ECO 2020 -- (SS) Principles of Macroeconomics: Cr. 3-4
ECO 4997 -- Senior Honors Seminar: Cr. 4
ENG 1050 -- (BC) Freshman Honors: English I: Cr. 4
ENG 2050 -- (IC) Freshman Honors: English II: Cr. 4
ENG 4990 -- Directed Study: Honors Program: Cr. 3-6
ENG 4991 -- Honors Seminar: Cr. 3-6
ENG 4992 -- Honors Project: Cr. 3
FRE 2700 -- (PL) Anguish & Commitment: European Existentialist Lit: Cr. 3-4
GER 2700 -- (PL) Anguish & Commitment: European Existentialist Lit: Cr. 3-4
GPH 4990 -- Directed Study: Honors Program: Cr. 2-12
HIS 1200 -- (HS) Medieval World: Cr. 3-4
HIS 1300 -- (HS) Europe and the World: 1500-1945: Cr. 3-4
HIS 1400 -- (HS) The World Since 1945: Cr. 3-4
HIS 3250 -- The Family in History: Cr. 3-4
HIS 5995 -- Honors Seminar: Cr. 3
HUM 2200 -- (PL) Sophomore Hon. Colloquium in Humanities: Cr. 4
HUM 3030 -- Music-Theatre-Cinema: Cr. 3
ITA 2700 -- (PL) Anguish & Commitment: European Existentialist Lit: Cr. 3-4
MAT 2010 -- Calculus I: Cr. 4
MAT 2020 -- Calculus II: Cr. 4
MAT 2030 -- Calculus III: Cr. 4
NFS 2210 -- Human Nutrition: Cr. 3-4
NFS 5990 -- Honors Directed Study: Cr. 1-4
PHI 1020 -- (PL) Honors Intro. to Philosophical Systems: Cr. 3-4
PHI 1040 -- (PL) Honors Intro. to Philosophical Problems: Cr. 3-4
PHI 1860 -- Honors Introductory Symbolic Logic: Cr. 3
PHI 2320 -- (PL) Introduction to Ethics: Cr. 3-4
PHI 3550 -- (PL) Metaphysics: Cr. 3
PSY 3600 -- Space, Time and the Philosophy of Physics: Cr. 3
PSY 4870 -- Honors Directed Reading: Cr. 4
PSY 4890 -- Honors Proseminar: Cr. 4
PHY 1040 -- (PS) Einstein, Relativity and Quanta: Cr. 3-4
P S 1010 -- (AI) American Government: Cr. 4
P S 4995 -- Senior Honors Paper: Cr. 4
PSY 1010 -- (LS) Introduction to Psychology: Cr. 4
PSY 2600 -- Psychology of Social Behavior: Cr. 4

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Honors-Option Coursework

The Honors Option allows a student in any course above the 1000 introductory level taught by a regular faculty member to elect honors type work, provided the instructor agrees to furnish commensurate extra instruction. If a grade of 'B' or above is earned in the course and in the additional work, the student will receive honors credit for the course on the transcript. Application forms for the Honors Option are available in the Honors Program Office. The application form must be signed by the instructor and departmental honors adviser and should be returned to the Honors Program Office by the end of the third week of classes. The completed form must then be returned to the Honors Program Office at the end of the semester.

HONORS COURSES (HON)

The following courses, numbered 0900-6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 481.

2100 (CLA 2100) (PL) Classical Origins of Western Thought. Cr. 3
Prereq: for HON students: minimum 3.3 cumulative g.p.a. (3.5 g.p.a. for entering freshmen). Classical foundations of contemporary Western Thought. Topics include: relations between the sexes, democracy, slavery, war, social criticism, rationality, relations between parents and children, literature and the performing arts. (Y)

4200 (PL) Seminar in Philosophy and Letters. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of meanings given to human experience through study of philosophy or letters. Honors variant of an approved PL course in General Education Program. (Y)

4210 (SS) Seminar in Social Sciences. Cr. 3
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of major institutions in society and their roles in those institutions. Honors variant of an approved SS course in General Education Program. (Y)

4220 (LS) Seminar in Life Science. Cr. 3
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of aspects, methods, and important issues in various areas of the life sciences. Honors variant of an approved LS course in General Education Program. (Y)

4230 (PS) Seminar in Physical Science. Cr. 3
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of modern theory and data, implications and possibilities in the physical sciences. Honors variant of an approved PS course in the General Education Program. (Y)

4240 (VP) Seminar in Visual and Performing Arts. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Analysis of ways the visual or performing arts may be appreciated, evaluated, and criticized. Honors variant of an approved VP course in the General Education Program. (Y)

4250 (HS) Seminar in Historical Studies. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Studies of periods of history in which there has been major transition or change. Honors variant of an approved HS course in General Education Program. (Y)

4260 (FC) Seminar in Foreign Culture. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Humanistic or social science investigation of peoples and institutions in other cultures. Honors variant of an approved FC course in General Education Program. (Y)

4270 (AI) Seminar in American Society and Institutions. Cr. 3 (Max. 9)
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. Study of American society, its institutions and social change. Honors variant of an approved AI course in General Education Program. (Y)

4280 General Honors Seminar. Cr. 3
Prereq: junior or senior standing; minimum 3.3 cumulative g.p.a. In-depth exploration of important concepts and approaches in liberal studies. Topics to be announced in Schedule of Classes. (Y)

4990 Directed Study. Cr. 2-4 (Max. 16)
Prereq: 3.3 g.p.a. and written consent of director. (T)

4998 University Honors Thesis. Cr. 3-6
Prereq: junior or senior standing and consent of University Honors Program Director. Open only to University honors students. For students not concurrently in departmental/college Honors program. (T)
Bachelor of Arts
With a Major in Linguistics

Admission Requirements for this program are satisfied by the requirements for general undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 23), the College Group Requirements (see page 381), and the following major requirements. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381.

The bachelor of arts program consists of a basic core of general linguistics courses which all majors must complete. In addition to the core courses, the student is to pursue one of the following concentrations: (a) linguistics and a language, (b) syntax and semantics, (c) language variation and change, (d) language acquisition and processing, (e) sociolinguistics and discourse/pragmatics, and (f) individualized program.

Programs are to be planned in consultation with the linguistics program adviser. A student must complete a minimum of twenty-eight credits in core and concentration courses to satisfy the major requirements.

CORE COURSES
LIN 5700 -- Introduction to Linguistic Theory: Cr. 3
LIN 5290 -- Phonology: Cr. 3
LIN 5300 -- Syntax: Cr. 3

CONCENTRATIONS:

(a) Linguistics and a Language
The student must complete at least nine credits in advanced language skills or in the linguistics of the chosen language. The nine credits in advanced language skills should be planned in consultation with the adviser.

(b) Syntax and Semantics
Students must elect at least nine credits from the following, in consultation with the adviser:
LIN 1850 or LIN 1860
-- Introductory Symbolic Logic: Cr. 3
-- Honors Symbolic Logic: Cr. 3
LIN 5720 -- Topics in Language: Semantics: Cr. 3
LIN 5720 -- Topics in Language: Morphology: Cr. 3
LIN 5720 -- Topics in Language: Typology: Cr. 3
LIN 5730 -- Traditional Grammar: Cr. 3
LIN 6710 -- Psycholinguistics: Cr. 3

Students may select from the following electives:
LIN 2730 -- Languages of the World: Cr. 3
LIN 2750 -- African American English: Cr. 3
LIN 3080 -- Cognitive Psychology: Cr. 3
LIN 5050 -- Advanced Symbolic Logic: Cr. 4
LIN 5200 -- Modal Logic: Cr. 4
LIN 5230 -- Structure of Arabic: Cr. 3
LIN 5570 -- Philosophy of Language: Cr. 4

(c) Language Variation and Change
Students must elect at least nine credits from the following, in consultation with the adviser:
LIN 2730 -- Languages of the World: Cr. 3
LIN 2750 -- African American English: Cr. 3
LIN 5720 -- Topics in Language: Historical Linguistics: Cr. 3
LIN 5720 -- Topics in Language: History of English: Cr. 3
LIN 5720 -- Topics in Language: Typology: Cr. 3
LIN 5720 -- Topics in Language: Language Variation: Cr. 3

* For specific requirements, see the Wayne State University Graduate Bulletin.

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The Linguistics Program invites academically superior majors to petition for admission to the ‘AGRADE’ (Accelerated Graduate Enrollment) Program. ‘AGRADE’ procedures enable qualified seniors to enroll simultaneously in the undergraduate and graduate programs in Linguistics and to apply a maximum of fifteen credits toward both a bachelor’s and a master’s degree. Students admitted to the Linguistics Program office: 313-577-8642; or by e-mail at: linguistics@wayne.edu

Minor in Linguistics
A minor consists of the three core courses (LIN 5700, 5290, 5300) plus nine additional credits in the Linguistics program. Programs should be planned in consultation with an adviser.

LINGUISTICS COURSES (LIN)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

1700 (ENG 1700) English Grammar. Cr. 3
An intensive course in the rules of English grammar, especially those rules needed for written work in college. Explication of the linguistic principles inherent in the rules of usage.

1850 (PHI 1850) Introductory Symbolic Logic. Cr. 3
The logic of propositions; the general logic of predicates and relations.

1860 (PHI 1860) Honors Symbolic Logic. Cr. 3
Open only to Honors students. See LIN 1850.

2720 (ENG 2720) (PL) Basic Concepts in Linguistics. Cr. 3
Prereq: ENG 1020 or equiv. Analysis of the structure and use of language, focusing on English, from the standpoint of current linguistic practice. Topics include: phonetics and sound structure, word structure, syntax, semantics, language origin and history, dialects, language learning and animal communication, and language in social interaction.

2730 (ENG 2730) Languages of the World. Cr. 3
Prereq: ENG 1020. Survey of structure of major language families of the world, western and non-western; interrelationships of language and culture; universals and variations of universals in language and culture.

2750 (SLP 2750) African American English. Cr. 3
Structure, content, use, and history of African American English (also known as Ebonics) from its origins to the present.

3080 (PSY 3080) Cognitive Psychology: Fundamental Processes. Cr. 3
Prereq: PSY 1010 or equiv. Fundamental theories, concepts, and empirical findings in study of human cognition. Topics include: thinking, problem solving, language comprehension and production, memory and attention.

5050 (PHI 5050) Advanced Symbolic Logic. Cr. 4
Prereq: junior, senior, or graduate standing. Formal, extensive treatment of first-order predicate logic with emphasis on the notions of a formal logical language and truth in a model; the logic of identity; definite descriptions; brief introductions to set theory and the meta-theory of propositional and first-order logic; some additional advanced topics to be selected by the instructor.

5080 (SLP 5080) Phonetics. Cr. 3
Multisensory study of sounds in the English language, emphasizing acoustic, physiologic, kinesiologic approaches. Material fee as indicated in the Schedule of Classes.

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5200 (PHI 5200) Modal Logic. Cr. 4
Prereq: PHI 1850 or PHI 1860 or consent of instructor. The logic of necessity, possibility, and other modal notions as they occur in epistemic and deontic contexts. (B)

5210 (ARB 5210) Arabic Sociolinguistics. (N E 5210) Cr. 3
No knowledge of Arabic required. Arabic dialectology; Arabic as a minority language in contact. Theories and techniques developed outside Arabic, and their applicability to Arabic situations. (F)

5230 (ARB 5230) Structure of Arabic. (N E 5230) Cr. 3
No knowledge of Arabic required. Survey of historical constitution and theoretical structure of Arabic. (Y)

5290 (ENG 5710) Phonology. Cr. 3
Prereq: LIN 5700. The sound systems of a variety of human languages compared and contrasted in an introduction to the diversity and similarities in human sound systems. Theories of the nature of sound systems and methods of analysis in phonology and morphophonology will be presented. (B)

5300 (ENG 5740) Syntax. Cr. 3
Prereq: LIN 5700. The theory of grammatical systems examined through analysis of sentence and word formation in a variety of human languages. Diversity and universals in grammar and theories of syntax. (B)

5310 (ANT 5310) Language and Culture. Cr. 3
Prereq: ANT 2100 or ANT 5200 or SOC 2010 or consent of instructor. Interconnections of language and culture in distant and local communities, in contexts where languages are declining or developing anew, and in life cycle and ordinary contexts of daily life. Students explore their own language and cultural backgrounds and those to which they are drawn. (F)

5320 (ANT 5320) Language and Societies. Cr. 3
Contemporary linguistic anthropologists see language as a form of social action. How this understanding of language in society has evolved: classic works in linguistic anthropology and contemporary studies. Research in language in society. (W)

5360 (SLP 5320) Normal Language Acquisition and Usage. Cr. 3
Language development in children and the associated areas of emotional and motor development; language stimulation techniques and programs. Material fee as indicated in the Schedule of Classes. (Y)

5570 (PHI 5570) Philosophy of Language. Cr. 4
Prereq: PHI 1850 or PHI 1860 or any philosophy course from the Philosophical Problems group or graduate student in linguistics or consent of instructor. Intensive investigation and discussion of philosophical problems concerning meaning, truth, and the nature of language. (B)

5700 (ENG 5700) Introduction to Linguistic Theory. Cr. 3
Introduction to the scientific study of language and methodologies of linguistic analysis: phonetics and phonology, morphology, syntax, semantics, sociolinguistics, and pragmatics. Introduction to selected disciplinary and interdisciplinary topics: typology and universals, communication systems, psycholinguistics, sociolinguistics, historical linguistics, anthropological linguistics. (T)

5720 (ENG 5720) Topics in Language. Cr. 3 (Max. 12)
Topics such as morphology, semantics, pragmatics, historical linguistics, history of English, pidgins and creoles, language variation, to be announced in Schedule of Classes. (T)

5730 (ENG 5730) Traditional Grammar. Cr. 3
Comprehensive analysis of English sentence structure and parts of speech using the terminology and descriptive approach of traditional grammar. (T)
MATHEMATICS

Office: 1150 Faculty/Administration Building; 577-2479
Chairperson: Lowell J. Hansen
Associate Chairperson: Daniel Frohardt
Academic Services Officer: Mary Klamo
Web: http://www.math.wayne.edu

Professors

Associate Professors
John C. Breckenridge, Sarah Ferguson, David W. Jonah, John Klein, Peter Malcolmson, Stephen A. Williams

Assistant Professors
Po Hu, Sheng Zhang

Lecturers
Leonard Boehm, Patricia Bonesteel, Christopher Nazelli, Donald Sherry

Adjunct Associate Professor
Lance K. Heilbrun

Degree Programs
BACHELOR OF ARTS with a major in mathematics
BACHELOR OF SCIENCE with a major in mathematics
*MASTER OF ARTS with a major in mathematics
*MASTER OF ARTS with a major in mathematical statistics
*MASTER OF ARTS in Applied Mathematics
*MASTER OF ARTS in Teaching College Mathematics
*DOCTOR OF PHILOSOPHY with a major in mathematics and concentrations in pure mathematics, applied mathematics and mathematical statistics

The courses offered by the Department of Mathematics serve several purposes; they supply the mathematical preparation necessary for students specializing in the physical, life or social sciences, in business administration, in engineering, and in education; they provide a route by which students may achieve a level of competence to do research in any of several special mathematical areas; they allow students to prepare themselves for work as mathematicians and statisticians in industry and government; and they give an opportunity to all inquisitive students to learn something about modern mathematical ideas. Consult the department website for latest information: http://www.math.wayne.edu

Mathematics Placement Exam
All students, including transfer and guest students, who plan to take MAT 0995, 1050, 1110, 1120, 1500, 1800, or 2010 as their first mathematics course at Wayne State, must take the Mathematics Placement Exam. Results of the examination are used in conjunction with other measures, such as ACT scores, to determine into which course the student is placed. Students intending to take MAT 0993 need not take the examination.

All students take the same exam, although there is one part that is required only of those students seeking placement into MAT 2010. Passing at the first level allows entry into MAT 0995 or 1050. Passing at the second level allows entry into MAT 1110, 1120, 1500, or 1800. Passing at the third level allows entry into MAT 2010.

Mathematics 0995 and 1050: Students qualify by having achieved one of the following within the previous two semesters: a) satisfactory score on the Mathematics Placement Exam, or b) a grade of at least ‘C’ minus in MAT 0993. For placement at this level, students should have a command of arithmetic and beginning algebra corresponding approximately to one year of high school algebra.

Mathematics 1110 and 1500: Students qualify by having achieved one of the following within the previous two semesters: a) satisfactory score on the Mathematics Placement Exam, or b) a grade of at least ‘C’ minus in MAT 0995 or 1050, or c) a grade of ‘S’ in MAT 0995. For placement at this level, students should have a grade of at least ‘C’ minus in MAT 0993. For placement at this level, students should have a command of algebra and basic geometry, corresponding approximately to three years of college-preparatory mathematics.

Mathematics 1120: Students qualify by having achieved one of the following within the previous two semesters: a) a satisfactory score on the Mathematics Placement Examination, or b) a grade of at least ‘C’ minus in MAT 1110 taken at W.S.U.

Mathematics 1800: Students qualify by having achieved one of the following within the previous two semesters: a) a satisfactory score on the Mathematics Placement Examination, or b) a grade of at least ‘C’ minus in MAT 1050. For placement at this level, students should have a command of algebra and basic geometry, corresponding approximately to three years of college-preparatory mathematics.

Mathematics 2010: Students qualify by having achieved one of the following within the previous two semesters: a) a satisfactory score on the Mathematics Placement Examination; or b) a grade of at least ‘C’ minus in MAT 1800. For placement at this level, students should have a command of algebra, geometry, trigonometry, and elementary functions corresponding approximately to four years of college-preparatory mathematics.

Examination Periods: The Mathematics Placement Exam is administered prior to the beginning of each semester. No placement exams will be given for the current semester after the start of classes. A student may take the Examination only once during an examination period. Consult the Testing and Evaluation Office, 698 Student Center (313-577-3400), for details.

Time Limitation: Scores on the Mathematics Placement Exam will be honored for only two semesters: the semester immediately following the testing period and the subsequent semester. For the purpose of counting, there are three semesters: Fall, Winter, and Spring/Summer.

Studying for the Exam: Students should review thoroughly before taking the exam. Review materials are available at: http://www.math.wayne.edu/courses.html

BACHELOR’S DEGREES

Admission Requirements for the College are satisfied by the general requirements for undergraduate admission to the University; see page 15. Undergraduates will be accepted as mathematics majors only after an interview with a departmental adviser. After a student's
acceptance as a major, a student should consult a departmental adviser at least once a year to verify progress.

Degree Requirements
Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College Group Requirements (see page 381) and the University General Education Requirements (see page 23), as well as the major requirements of one of the following programs. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381.

Bachelor of Arts: The candidate must complete one of options A, B, C, D, or E as described below.

Bachelor of Science: The candidate must complete:
1. Option A (see below) or one of Options B, C, D, or E plus MAT 5600. (A candidate for the B. S. degree in another department who wishes to include mathematics as a second major may complete Option B, C, D, or E without the addition of MAT 5600.) All majors must take MAT 5420 and MAT 5993 concurrently.
3. Computer Science 1100.
4. One course elected from the following: BIO 1510, CHM 1220/1230, GEL 1010, NFS 2210, and PSY 1010.

The Department recommends that the Group Requirement in Foreign Language be satisfied by the election of French, German, or Russian.

Grade Point Average: For majors, the cumulative grade point average in mathematics (MAT) courses must be at least 2.0 (A = 4.0).

Curricular Alternatives
Combined Curriculum for Secondary Teaching (CCST): Under the Combined Curriculum (see Teacher Preparation Curricula, page 388), it is possible to earn a bachelor’s degree in mathematics concurrent with a secondary teaching certificate. Students in CCST may satisfy the mathematics part of their degree requirements by any of the degree options specified below. Though Option C is specifically designed for such purposes, students are not restricted to Option C. It is recommended but not required that CCST students take MAT 2860, 5000, and 6140.

Computer Science Concentration: Mathematics and computer science are so closely related that a great many students who major in mathematics pursue careers or graduate study in computer science. A mathematics degree, being more than just welcome in the field, is highly regarded. For students who would like to complete a double major in mathematics and computer science or a major in mathematics with a minor in computer science, the Department offers a specially designed program described under Option D. Under this option, students can take certain courses that satisfy both mathematics and computer science requirements simultaneously. Specifically, MAT 5100 can be used as a computer science elective and one of CSC 5860, 5870, 6500, 6620, or 6991 (depending on the topic) can be used as a mathematics elective.

Actuarial Science Concentration: Students embarking on a career as an actuary will be expected to pass certain exams administered by the profession. Option E provides the coursework covered by the first several exams: Calculus, Linear Algebra, Probability and Statistics, Numerical Analysis and Operations Research. The Department also offers MAT 3310, a problem-solving review course in Calculus and Linear Algebra that is designed to prepare students for the first actuarial science examination.

Option A
This option is recommended for students who plan to pursue graduate study in mathematics.
1. The Basic Sequence (MAT 2010, 2020, 2030, 2250, and 2350).
2. Advanced Calculus (MAT 5070).
3. Algebra I (MAT 5420/MAT 5993).
4. Analysis I (MAT 5600).
5. Probability (MAT 5700).
6. Algebra II or Analysis II (MAT 5430 or 5610).
7. One course elected from the following: MAT 5230, 5430, 5520, 5530, 5610, and 5800.
8. One additional course elected from (a) mathematics courses numbered above 5000, excluding MAT 5005, 5120, 5130, 6170, 6180, and 6200; or from (b) CSC 6500, 6620, or 6991 (depending on the topic).

Option B
This option is for students interested in a broad range of topics.
1. The Basic Sequence (MAT 2010, 2020, 2030, 2250, and 2350).
2. MAT 5070.
3. MAT 5420/5993.
4. MAT 5700.
5. (MAT 5600 is required for the B. S. degree. It is not required for the B. A. degree.)
6. Three additional mathematics courses numbered above 5000, excluding MAT 5005, 5120, 5130, 6170, 6180, and 6200; or two such courses and one elected from the following: CSC 6500, 6580, 6620, and 6991 (depending on the topic). Only one (at most) of the courses may be selected from MAT 5890 or MAT 5990.

Option C — Concentration in Secondary Teaching
This option is recommended for students in the Combined Curriculum for Secondary Teaching.
2. MAT 2210 and 2860.
3. MAT 5000.
4. MAT 5070.
5. MAT 5420.
6. MAT 5100.
7. MAT 5120.
8. (MAT 5600 is required for the B. S. degree. It is not required for the B. A. degree.)
9. One additional mathematics course from among MAT 5400, 5520, 5600, and 6180, or one computer science course numbered above 5100.

Option D — Concentration in Computer Science
This option is available only to students who complete a second major or a minor in computer science. Students should consult the Computer Science Department for their major and minor requirements.
2. MAT 2210 and 2860.
3. MAT 5000.
4. MAT 5070.
5. MAT 5100.
6. MAT 5420/5993.
7. (MAT 5600 is required for the B. S. degree for students completing a minor in computer science. It is not required for students completing a double major in mathematics and computer science, nor is it required for the B. A. degree.)
8. Two additional mathematics courses numbered above 5000, excluding MAT 5005, 5120, 5130, 6170, 6180, and 6200; or one such
course and one course elected from: CSC 5860, 5870, 6500, 6620, and 6991 (depending on the topic). At most, one of these courses may be selected from MAT 5890 or MAT 5990.

NOTE: The Computer Science Department accepts MAT 5100 as a computer science elective.

Option E — Concentration in Actuarial Science
This Option is for students interested in a career as an actuary.
2. MAT 5070.
3. MAT 5100.
4. MAT 5420/5993.
5. MAT 5700.
6. MAT 5770.
7. MAT 5800.
8. (MAT 5600 is required for the B. S. degree. It is not required for the B. A. degree.)
9. MAT 2350 or one additional mathematics course numbered above 5000, excluding MAT 5005, 5120, 5130, 6170, 6180, and 6200; or one computer science course numbered above 5100.

Honors Program
In order to graduate with honors in mathematics, students must satisfy the following criteria:
1. Completion of the requirements for a Bachelor of Science degree.
2. An overall grade point average of 3.3 or above at graduation.
3. Completion of at least fifteen credits in honors-designated course work, including at least one 4000-level Honors Program seminar (see Honors Program, page 414).
4. Completion of a Senior Task, for which a student registers under MAT 4990, Directed Study: Honors Program. These MAT 4990 honors credits count toward the fifteen-credit requirement.

Honors Sections in the Basic Sequence: Honors sections in MAT 2010 and 2030 are taught in the fall semester and in MAT 2020 are taught in the winter semester. A 3.0 or higher grade point average in Basic Sequence courses already taken is required for admittance. (See also ‘Emerging Scholars Program,’ below.)

Emerging Scholars Program
The Emerging Scholars Program is a special honors program at the levels of MAT 1800, 2010, and 2020, that features a challenging problem-solving workshop attached to the regular class. The program seeks dedicated, hard-working students who want to excel in mathematics. Students who place into the level below MAT 1800 are encouraged to enroll in MAT 1050 PREP as preparation for the Program. Contact the Department for further information.

‘AGRADE’ Program
The Department of Mathematics participates in the College ‘AGRADE’ (Accelerated Graduate Enrollment) Program, in which qualified students can obtain a master’s degree within one year of receiving the bachelor’s degree. For more details about the ‘AGRADE’ Program, contact the Director of the College’s Honors Program (577-3030), the Department Chairperson, or the Graduate Office of the College (577-2960).

Minor in Mathematics
The requirements for a Minor in Mathematics consist of MAT 2010, 2020, 2030, 2250, and either (a) three mathematics courses numbered above 5000, or (b) MAT 2150 or 2350 or 2210 or 2860 or 5000; and two mathematics courses numbered above 5000. If MAT 2210 is elected, MAT 5700 may not be used to meet the requirement. In both (a) and (b), the courses MAT 5005, 5120, and 5130 do not satisfy mathematics minor requirements. A cumulative grade point average of 2.0 or better must be maintained in these courses. A student who is considering a minor should consult a departmental adviser.

Scholarships and Awards
Department of Mathematics Outstanding Undergraduate Award: A monetary award open to graduating seniors majoring in mathematics.

Department of Mathematics Undergraduate Scholarship: Scholarships are available to entering freshmen and current undergraduates who are either majoring in mathematics or planning to major in mathematics, or who have successfully participated in the Department’s Honors Program or Emerging Scholars Program.

Wayne State University Math Corps Scholarship: Scholarships are available to entering freshman and current undergraduates who were members of the WSU Math Corps in Middle School or High School.

Advanced Courses for Non-Majors
Because of the fundamental role that mathematics plays in all types of scientific and technical endeavor, the advanced course offerings of the Mathematics Department must serve a group considerably larger than those preparing for a career in mathematics exclusively.

Economics, Business Administration and Computer Science: The following basic subjects are recommended to master’s degree candidates as preparation for work in their profession; they also provide a solid background for students who intend to pursue doctoral studies after completion of the master’s program:

Numerical Methods: MAT 5100
Algebra: MAT 5420
Operations Research: MAT 5770
Probability Theory: MAT 5700
Statistical Methods, Applied Time Series & Design of Experiments: MAT 5800, 5830

Engineering and Physical Applications: The Mathematics Department has several sequences in applied mathematics that provide experienced engineers and scientists from industry and government the means to acquire and maintain the technical competence needed to work at the frontiers of their fields:

Numerical Methods: MAT 5100
Applied Analysis: MAT 5220, 5230
Probability Theory and Random Processes: MAT 5700, 7700, 7710
Graph Theory and Combinatorial Mathematics: MAT 6400, 6410
Differential Geometry: MAT 5530

Students who feel that they eventually would like to pursue mathematical studies beyond the level of the above sequences should make every effort to take the mathematics sequences that begin with MAT 5600, and 5420, respectively, and MAT 6600. These courses will help them to understand and work with abstract concepts in advanced courses.

Statistics
Beginning students are referred to Statistics (STA) 1020 or MAT 2210. Those whose work demands a good foundation in mathematical statistics are referred to MAT 5700 and 5800. MAT 5830 is useful for students interested in applied statistics.

In addition to the interdepartmental course listed in the Courses of Instruction section below, several specialized advanced courses in statistics are offered by individual departments:

ECO 4100 -- Economics and Business Statistics: Cr. 3
ECO 5100 -- Introductory Statistics and Econometrics: Cr. 4
ECO 6100 -- Introduction to Econometrics: Cr. 4
ECO 7100 -- Econometrics I: Cr. 4
ECO 7110 -- Econometrics II: Cr. 4

College of Science 421
MAT 2210 -- Elementary Probability and Statistics: Cr. 4
MAT 5700 -- Introduction to Probability Theory: Cr. 4
MAT 6830 -- Design of Experiments: Cr. 3
MAT 7700 -- Advanced Probability Theory I: Cr. 3
MAT 7710 -- Advanced Probability Theory II: Cr. 3
MAT 7870 -- Topics in Statistics: Cr. 3-4
PSY 3010 -- Statistical Methods in Psychology: Cr. 4

For descriptions of these courses and others, see the respective departmental sections of this bulletin.

## UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

**NOTE:** A minimum grade of ‘C-minus’ is required in every prerequisite course.

## MATHEMATICS COURSES (MAT)

### Courses Open Only to Undergraduates

**0991** (MC) Basic Concepts in Mathematics. Cr. 3
Prereq: ENG 1020; failure in mathematics proficiency test. Offered for S and U grades only. No degree credit. Introduction to the study of algebra, geometry, probability and statistics. (Former MAT 1080.)

**0993** (MC) Beginning Algebra. Cr. 3
Offered for S, M, and U grades only; no degree credit. Review of integers, fractions, decimals, percents, ratios. The Real number system: the basic operations and their properties. Geometry: basic objects and terminology.

**0995** Intermediate Algebra. Cr. 3
Prereq: within previous two semesters a grade of S in MAT 0993, taken at WSU; or satisfactory score on math placement exam. Offered for S, M, and U grades only; no degree credit. Exponents and radicals, solving polynomial and other types of equations and inequalities, graphs and systems of linear equations, introduction to functions, elementary geometry.

**1050** Algebra With Trigonometry. Cr. 5-7
Prereq: one of the following within previous two semesters: satisfactory score on placement exam or grade of S in MAT 0993, taken at WSU; mathematics, mathematics education, science, and engineering majors should elect should elect the seven-credit version of this course, MAT 1050 PREP, which includes problem solving and elements of Precalculus and Calculus. If elected for 5 credits, only 2 credits apply toward degree; if elected for 7 credits, only 3 credits apply toward degree. Algebra: properties of the real number system, equations and inequalities, lines, graphs, introduction to functions, exponents, logarithms. Geometry and trigonometry: basic concepts, introduction to trigonometric functions, solving right triangles.

**1800** Elementary Functions. Cr. 4
Prereq: within previous two semesters a grade of C-minus or better in MAT 1050, taken at WSU; or satisfactory score on math placement exam. Only two degree credits after MAT 1500. Basic definition and concept of function. Definitions, properties and graphs of polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions.

**1990** Precalculus Workshop. Cr. 2
Coreq: designated section of MAT 1800. Offered for S and U grades only. Open only to students in Emerging Scholars Program. Students work cooperatively in groups to solve challenging problems related to precalculus. Learning is through discovery rather than by lecture.

**2010** Calculus I. Cr. 4
Prereq: within previous two semesters a grade of C-minus or better in MAT 1800, taken at WSU; or satisfactory score on math placement exam. No credit after MAT 1510. Calculus as the study of change. Definitions, concepts, and interpretations of the derivative and the definite and indefinite integrals; differentiation, integration, applications.

**2020** Calculus II. Cr. 4

**2030** Calculus III. Cr. 4
Prereq: MAT 2020. Multivariable calculus with applications. Vectors and vector functions in two and three dimensions; functions of several variables; differentiation; integration; vector calculus.

**2110** Calculus Workshop I. Cr. 2
Coreq: designated sections of MAT 2010. Offered for S and U grades only. Open only to students in Emerging Scholars Program. Students work cooperatively in groups to solve challenging problems based on MAT 2010. Learning is through discovery rather than by lecture.

**2120** Calculus Workshop II. Cr. 2
Coreq: designated sections of MAT 2020. Offered for S and U grades only. Open only to students in Emerging Scholars Program. Students work cooperatively in groups to solve challenging problems based on MAT 2020. Learning is through discovery rather than by lecture.

**2150** Differential Equations and Matrix Algebra. Cr. 4
Prereq: MAT 2030 or equiv. Only one degree credit after MAT 2350. Differential equations and applications; basic operations of matrices from linear algebra.

**2210** (MAT 6150) Probability and Statistics for Teachers. Cr. 4
Prereq: grade of C or better in MAT 1800; 2010 recommended. No credit after MAT 5700. Counting techniques, discrete sample spaces and probability, random variables, mean and variance, joint distributions, the binomial and normal distributions, the central limit theorem, estimation and hypothesis testing.

**2250** Elementary Linear Algebra. Cr. 3

**2350** Elementary Differential Equations. Cr. 3
Prereq: MAT 2030 or equiv. No degree credit after MAT 2150. Topics include: first order equations, higher order linear equations, Laplace transforms, linear systems. Applications presented throughout the course.

**2860** (MAT 6130) Discrete Mathematics. Cr. 3

**3310** Actuarial Mathematics. Cr. 1
Prereq: MAT 2030 and 2250. Problem solving course based on material covered on first Actuarial Exam. Subjects include: differential and integral calculus, multivariate calculus, elementary linear algebra.
Honors Topics in Mathematics. Cr. 3
Prereq: admission to University Honors Program, consent of instructor. Special topics in a branch of pure or applied mathematics, explored in depth. (Y)

Directed Study: Honors Program. Cr. 1-4 (Max. 8)
Prereq: admission to Honors Program by Undergraduate Committee. (I)

Courses Open to Undergraduates and Graduates

Fundamental Concepts of Mathematics and Proof Writing. Cr. 3
Prereq: MAT 2250 or 2860 or consent of instructor. Not considered a 5000+ level course for undergrad. degree requirements in mathematics; no credit towards graduate degree in mathematics. Fundamental concepts: basic logic, basic set theory, functions, equivalence relations. Proof: methods of proof, structures of proofs, proof-writing in a variety of mathematical subjects. (F,W)

Proof-Writing Workshop. Cr. 1
Coreq: MAT 5000 or consent of instructor. Not considered a 5000+ level course for undergrad. degree requirements in mathematics; no credit towards graduate degree in mathematics. Students work in groups, writing proofs in a variety of mathematical subjects. (S)

Statistical Computing and Data Analysis. Cr. 3
Prereq: MAT 2210 or equiv., 2250 or equiv. Computational aspect of statistics for advanced undergraduate and beginning graduate students. Computation of various statistical quantities by use of known statistical packages such as SAS, SPSS or BMD and the interpretation of their output. (B)

Advanced Calculus. Cr. 4
Prereq: MAT 2030, and 2250 or 2350. The real numbers; limits; continuity; sequences and series of functions; uniform convergence; power series; Fourier series; basic properties and topology of Euclidean n-space; transformations, the Jacobian; implicit and inverse function theorems; improper integrals and functions defined by improper integrals; Lagrange multipliers. (T)

Numerical Methods I. (SCP 7200) Cr. 3
Prereq: MAT 2030, 2250 and CSC 1020 or familiarity with a programming language. Topics include: numerical errors, solutions of nonlinear equations, interpolation, approximation, numerical integration and differentiation, and matrices and systems of linear equations. (Y)

Partial Differential Equations and Boundary Value Problems. Cr. 4
Prereq: MAT 5070. Boundary value problems of mathematical physics; Sturm-Liouville problems; eigenvalues and eigenfunctions; Green’s functions; variational principles; the Rayleigh-Ritz method. (B)

Complex Variables and Applications. Cr. 4
Prereq: MAT 5070. No credit after MAT 6600. Cauchy-Riemann equations; elementary functions; mappings by elementary functions; the Cauchy integral formula; Morera’s theorem; Taylor series; Laurent series; residues and poles; conformal mappings; the Schwarz-Christoffel transformations; potential theory; Fourier and Laplace transforms and applications in differential and integral equations. (B)

Methods of Differential Equations. Cr. 3
Prereq: MAT 2350. Linear nth order differential equations; linear systems of differential equations (constant and periodic coefficients); oscillation and comparison theorems for second order differential equations; boundary value problems; stability theory (Liapunov’s direct method and frequency domain stability criteria); asymptotic solutions; autonomous non-linear systems; classification of singularities. (B)

(Phi 5350) Logical Systems I. Cr. 4
Prereq: PHI 1850 or 1860 or 5050 or MAT 5600 or MAT 5420 or consent of instructor; for philosophy graduate students: satisfaction of elementary logic requirement. Metaresults concerning formal systems of sentential and first-order logics; soundness, completeness; independence of axioms; introduction to recursive functions; formalization of elementary arithmetic; discussion of Godel’s incompleteness theorem and Church’s Theorem. (B)

Elementary Theory of Numbers. Cr. 3
Prereq: MAT 2030 and 2250. Unique factorization theorem; order of magnitude of arithmetic functions; congruences, quadratic residues, law of reciprocity; continued fractions. (Y)

Applied Linear Algebra. Cr. 4
Prereq: MAT 2030 and 2250, or consent of instructor. Gaussian elimination, vector spaces, orthogonality, least squares approximation, Householder orthonormalization, definite and semidefinite matrices, Rayleigh’s quotient. Applications such as differential equations, Markov processes, linear programming, networks, game theory. (B)

Algebra I. Cr. 4
Prereq: MAT 2030 and 2250. Only two credits apply after either MAT 6170 or 6180; no credit after both MAT 6170 and 6180. Abstract concepts: sets, mappings, equivalence relations, induction, general methods of proof. Group theory: groups, subgroups, cyclic groups, direct products, cosets, Lagrange’s Theorem, quotient groups, homomorphisms, permutation groups. Rings and fields (basic definitions) and vector spaces: basis, dimension, linear transformations. (T)

Algebra II. Cr. 4

Introduction to Topology. Cr. 3
Prereq: MAT 2030 and MAT 5000 (or former 4010) or consent of instructor. No credit toward graduate degree in mathematics or statistics. An introduction to topology, mostly through an intuitive approach. Topics chosen from among: topological equivalence and topological properties, complexes, Euler characteristic, connectedness, compactness, continuity, Brouwer’s Fixed Point Theorem, vector fields, Hairy Ball Theorem, n-dimensional spaces, classification of surfaces, cut and paste techniques, the Mobius band, orientability, the fundamental group. (Y)

Elementary Differential Geometry and its Applications. Cr. 3
Prereq: MAT 2030 and 2250. Introduction to the differential geometry of curves and surfaces in three-dimensional spaces, together with selected applications, such as computational geometry, mathematical elements of computer graphics, as chosen by instructor. (I)

Introduction to Analysis I. Cr. 4
Prereq: MAT 5070 or consent of instructor. Completeness, convergence, compactness and continuity in the context of Euclidean spaces; applications to differential and integral calculus. (T)

Introduction to Analysis II. Cr. 3
Prereq: MAT 5600. Point-wise and uniform convergence of sequences and series of functions; power series; introduction to analytic functions; Fourier series; possible additional topics. (T)

Introduction to Probability Theory. Cr. 4
Prereq: MAT 2030, 2250 or 2350. Only two credits after MAT 2210 or MAT 6150. Probability spaces, combinatorial analysis; independence; discrete and continuous random variables; expectations; nor-
5710  Introduction to Stochastic Processes. Cr. 3
Prereq: MAT 5700 or consent of instructor. Non-measure-theoretic introduction to the theory of stochastic processes and its applications, with emphasis on Markov processes and stationary processes with both discrete and continuous parameters. (B)

5740  The Theory of Interest. Cr. 3
Prereq: MAT 2020 and 2250. Concrete problems used to explore concepts in the theory of interest, including measurement of interest, annuities, yield rates, amortization, bonds, and stochastic approaches. Students prepare for certain professional actuarial examinations. (Y)

5770  Mathematical Models in Operations Research. Cr. 3
Prereq: MAT 5700, 2250, and 2210 or 5700 or consent of instructor. Mathematical models (deterministic and/or probabilistic) applied to dynamic programming; games; queues and inventories. (B)

5800  Introduction to Mathematical Statistics. Cr. 4
Prereq: MAT 5700. A one-semester course for senior undergraduate and master’s degree students. Introduction to basic mathematical theory of statistics. Topics include sample distributions, estimation theory, data analysis and sample statistics, testing hypothesis, two sample cases, analysis of variance, regression analysis, Bayesian inference. (Y)

5830  Applied Time Series. Cr. 3
Prereq: college courses in statistics and calculus, or consent of instructor. Time series models; statistical analysis in the time domain and examples; statistical analysis in the frequency domain and examples. (B)

5870  Methods of Optimization. Cr. 3
Prereq: MAT 2350. Introduction to basic mathematical theory and computational methods of optimization; optimality conditions in various optimization problems and numerical methods of optimization. (Y)

5890  Special Topics in Mathematics. Cr. 3-4 (Max. 12)
Prereq: MAT 2030, and 2250 or 2350. Material currently of interest to students and faculty. Topics to be announced in Schedule of Classes. (I)

5990  Directed Study. Cr. 1-4 (Max. 8)
Prereq: written consent of adviser and chairperson (and of graduate officer for graduate students). Undergraduates who elect this course must be mathematics majors of honors caliber. Content will vary to satisfy needs of individual student. (T)

5992  Teaching Mathematics in College. Cr. 1
Required of all graduate teaching assistants in Mathematics Department. Prereq: mathematics graduate student or major with senior standing. Offered for S and U grades only. Preparation for first semester of teaching in developmental-level mathematics course. Content presentation, test-writing, grading, classroom management, use of technology. Students are videotaped and critiqued. (F)

5993  (WI) Writing Intensive Course in Mathematics. Cr. 0
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor, MAT 2030 and 2250; coreq: MAT 5420 or 6170. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a course designated as a corequisite. See section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing-Intensive Course in the Major requirement. (T)

6130  Discrete Mathematics. (MAT 2860) Cr. 3

6140  Geometry: An Axiomatic Approach. Cr. 3
Prereq: MAT 5000 or consent of instructor. Foundations: logic, axiom systems, models; Hilbert’s axioms; the parallel postulate; Euclidean geometry; non-Euclidean geometries; hyperbolic geometry; philosophical questions. (Y)

6150  Probability and Statistics for Teachers. (MAT 2210) Cr. 4
Prereq: grade of C or better in MAT 1800; 2010 recommended. No credit after MAT 5700. Counting techniques, discrete sample spaces and probability, random variables, mean and variance, joint distributions, the binomial and normal distributions, central limit theorem, estimation and hypothesis testing. (T)

6170  Algebra: Ring Theory Through Exploration, Conjecture, and Proof. Cr. 4
Prereq: MAT 5000 (or former 4010) or consent of instructor. Only two credits after MAT 5420; no credit after MAT 5430. Rings: basic definitions; properties; examples including the integers, rationals, reals, and complex numbers; ideals; homomorphisms; and divisibility. Connections to high school algebra. Students will be involved in the mathematical processes of exploration, conjecture, and proof. (Y)

6180  Algebra: Group Theory Through Exploration, Conjecture, and Proof. Cr. 3
Prereq: MAT 5000 (or former 4010) or consent of instructor. Only one credit after MAT 5420. Groups: basic definitions, properties, examples, subgroups, cyclic groups, permutation groups, homomorphisms, quotient groups. Connections to high school algebra. Students will be involved in the mathematical processes of exploration, conjecture, and proof. (Y)

6200  Teaching Arithmetic, Algebra and Functions from an Advanced Perspective. (MAE 6200) Cr. 3
Prereq: MAT 5120, 6170, or 6180 or consent of instructor. Students gain profound understanding of K-12 mathematics. Concepts underlying K-12 topics and procedures; connections to higher mathematics. Teaching with Simplicity; applying mathematical understanding to teaching practices. (Y)

6210  Teaching Geometry, Probability and Statistics, and Discrete Mathematics from an Advanced Perspective. (MAE 6210) Cr. 3
Prereq: completion of a major in mathematics or secondary mathematics education. Historical perspectives, common conceptions and misconceptions, applications, technology, and mathematical connections relative to teaching geometry (including trigonometry), probability and statistics, and discrete mathematics in secondary school. (Y)

6400  Graph Theory. Cr. 4
Prereq: MAT 5420 or consent of instructor. Basic concepts of graphs and directed graphs; trees; cycles and circuits; connectivity; traversability; planarity; colorability. Further topics from among factorization, line-graph, coverings and independence, graphs and matrices, automorphism groups, enumeration, Ramsey theory, hypergraphs, packing theory, network flows. (B)

6410  Combinatorics. Cr. 4
Prereq: MAT 5420 or consent of instructor. Enumeration: the classical theory, principle of inclusion and exclusion, generating functions, the Mobius function; combinatorial designs including Latin squares, difference sets, projective geometries, Hadamard matrices, construction problems; transversal theory; Ramsey’s theorem; coding theory; partial orders; lattices. (B)
6500  Topology I. Cr. 4
Prereq: MAT 5610 or consent of instructor. Topological spaces and continuous functions; connectedness; compactness; product and quotient spaces; metric spaces; Urysohn's lemma; Tietze extension theorem; homotopy; covering spaces and path lifting; the fundamental group and examples; Brouwer fixed point theorem and applications.

6600  Complex Analysis. Cr. 2-4
Prereq: MAT 5610 or consent of instructor. Offered for two credits only if student has taken MAT 5230. Complex differentiation; elementary functions; Cauchy's integral theorem; power series; Laurent expansions; singularities; residue theorem; entire and meromorphic functions; Riemann mapping theorem.

6830  Design of Experiments. Cr. 3
Prereq: MAT 5800. Randomized blocks; Latin and Graeco-Latin squares; factorial designs; confounding; split plot; fractional replication; balanced incomplete blocks.

6840  Linear Statistical Models. Cr. 3
Prereq: MAT 5800 or equiv. Introduction to theory of linear statistical models; for advanced undergraduate or beginning graduate students.

Service Courses

1110  Mathematics for Elementary School Teachers I.
(MAE 5050) Cr. 3
Undergrad. prereq: one of following within previous two semesters: satisfactory score on placement exam; or at least C-minus in MAT 1050 or grade of S in MAT 0995; post-baccalaureate prereq: satisfy the undergraduate placement or completion of college math course at level of pre-Calculus or above. Undergrads. and post-baccalaureate students must register for MAT 1110, not MAE 5050; grad. students must register for MAE 5050, not MAT 1110, with consent of instructor. No degree credit in Colleges of Science or Liberal Arts. Open only to students in teacher preparation curricula. Whole numbers, integers, geometry.

1120  Mathematics for Elementary School Teachers II.
(MAE 5060) Cr. 3
Prereq: one of the following within the previous two semesters (including Spring/Summer): satisfactory score on the Mathematics Placement Exam or at least C-minus in MAT 1110 taken at WSU. Undergrad. and post-baccalaureate students must register for MAT 1120, not MAE 5060; grad. students must register for MAE 5060, not MAT 1120. No degree credit in Colleges of Science or Liberal Arts. Open only to students in teacher preparation curricula. Rational numbers, geometry, probability, statistics, number theory.

1500  Finite Mathematics for the Social and Management Sciences. Cr. 3
Prereq: one of following within previous two semesters: satisfactory score on placement exam; or at least C-minus in MAT 1050; or grade of S in MAT 0995. Only one degree credit after MAT 1800. Finite mathematical methods for model building in the social and management sciences. Polynomial, exponential, and logarithmic functions, matrices, and linear programming.

3430  Applied Differential and Integral Calculus. (E T 3430) Cr. 4
Prereq: MAT 1800. No degree credit in Colleges of Science and Liberal Arts. Limits, derivatives, applications of derivatives, definite integrals and their applications, and trigonometric functions.

3450  Applied Calculus and Differential Equations. (E T 3450) Cr. 4
Prereq: MAT 3430. No degree credit in Colleges of Science and Liberal Arts. Continuation of MAT 3430, including logarithmic and exponential functions, first and second order ordinary differential equations, vectors, polar coordinates, Laplace transforms, Taylor series, and Fourier series.

5120  Number Theory and Abstract Algebra for Middle School Teachers. (MAE 5120) Cr. 3
Prereq: MAT 1120 or MAE 5060, and MAT 1800. No credit towards major in mathematics or secondary mathematics. MAE 5120 may be taken for undergraduate or graduate credit; MAE 5120 may be taken for undergraduate credit only. Topics from elementary theory of numbers and abstract algebra underpinning middle school mathematics curriculum.

5130  Problem Solving for Middle School Teachers. (MAE 5130) Cr. 3
Prereq: MAT 1120 or MAE 5060, and MAT 1800. No credit towards a mathematics major or secondary mathematics education major; MAE 5130 may be taken for undergraduate credit only. Development of mathematical problem solving in middle grades mathematics education; study of non-routine problems; problem solving strategies; historical connections; connections to selected mathematics content and to topics in other disciplines.

5180  Geometry for Middle School Teachers. (MAE 5100) Cr. 3
Prereq: MAE 5060 or MAT 1120. No credit toward a major or minor for secondary mathematics teaching. MAE 5100 may be taken for graduate or undergraduate credit; MAT 5180 may be taken for undergraduate credit only. Development of Euclidean geometry as a mathematical system; related historical topics; introduction to other geometries; selected topics such as transformations and tessellations.

5190  Number Theory for Middle School Teachers. (MAE 5110) Cr. 3
Prereq: MAT 5610 or consent of instructor. Topology; homotopy; covering spaces and path lifting; the fundamental group and examples; Brouwer fixed point theorem and applications. MAE 5190 may be taken for undergraduate credit only. Study of non-routine problems; problem solving strategies; historical connections; connections to selected mathematics content and to topics in other disciplines.

5100  Geometry for Middle School Teachers. (MAE 5100) Cr. 3
Prereq: MAT 1120 or MAE 5060, and MAT 1800. No credit toward a major or minor for secondary mathematics teaching. MAE 5100 may be taken for graduate or undergraduate credit; MAT 5180 may be taken for undergraduate credit only. Development of Euclidean geometry as a mathematical system; related historical topics; introduction to other geometries; selected topics such as transformations and tessellations.

5190  Number Theory for Middle School Teachers. (MAE 5110) Cr. 3
No credit toward a major or minor for secondary mathematics teaching. MAE 5110 may be taken for graduate or undergraduate credit; MAT 5190 may be taken for undergraduate credit only. Prereq: MAT 1800, MAE 5060, or MAT 1120. Elementary functions and their applications; analytical geometry; intuitive concepts of differential and integral calculus; computer applications in middle and junior high school mathematics.

STATISTICS (STA)

1020  Elementary Statistics. (SOC 5280) Cr. 3
Prereq: one and one-half years high school algebra. Not to be counted as a mathematics course by mathematics majors. Descriptive statistics, correlation and regression, notions in probability, binomial and normal distributions, testing hypothesis.
NUTRITION and FOOD SCIENCE

Office: 3009 Science Hall; 577-2500
Web: http://www.science.wayne.edu/~nfs
Chairperson: David M. Klurfeld
Academic Services Officer: Laura Lee Birnie-Lindemann

Professors
Mary Jane Bostick (Emerita), David M. Klurfeld, K.-L. Catherine Jen, Leora A. Shelef

Assistant Professors
Nikhil V. Dhurandhar, Thomas V. Fungwe, Ahmad R. Heydari, Pramod Khosla

Lecturers
Tonia Reinhard, Mary E. Width

Degree Programs
BACHELOR OF ARTS with a major in nutrition and food science
BACHELOR OF SCIENCE with a major in nutrition and food science
BACHELOR OF SCIENCE in Dietetics
POST BACHELOR CERTIFICATE in Dietetics
*MASTER OF ARTS with a major in nutrition and food science
*MASTER OF SCIENCE with a major in nutrition and food science
*DOCTOR OF PHILOSOPHY with a major in nutrition or food science

The courses offered by this department are designed for students in three distinct groups: (a) those majoring in nutrition and food science who are interested in entering either the nutrition or the food science profession; (b) those interested in entering the dietetics field; and (c) those majoring in nutrition and food science with the intention of entering non-technical positions in a variety of food businesses.

BACHELOR’S DEGREES

Admission Requirements: See the general requirements for undergraduate admission to the University, page 15. Students contemplating a major program in Nutrition and Food Science should consult with the assigned undergraduate departmental adviser as soon as possible, and no later than the beginning of the sophomore year. Transfer students should consult with the assigned undergraduate departmental adviser during the semester prior to their transfer.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits of course work including satisfaction of the College Group Requirements (see page 381) and the University General Education Requirements (see page 23), as well as the major requirements of one of the following programs. All course work must be completed in accordance with the academic regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381.

Bachelor of Arts with a Major in Nutrition and Food Science

This curriculum allows students to major in nutrition and food science while following a broader program in liberal arts, science, and business. The degree requires a less rigorous background in chemistry and other natural science courses than is required for the B.S. degree in this discipline. Employment opportunities include sales, customer relations, university or school food services, industrial and commercial food service systems, hospitals, nursing homes or extended care food service operations.

Admission Requirements: See above under ‘Bachelor’s Degrees.’
DEGREE REQUIREMENTS: See above under ‘Bachelor’s Degrees.’
Major Requirements: Course requirements for this bachelor’s degree consist of courses offered by Wayne State University and courses available from local community colleges on a dual enrollment basis with the University. Requirements are as follows:

UNIVERSITY CORE COURSES
Nutrition and Food Science 2130, 2140, 2210, 2220, 5130, 5140, 5230, 6160, 6850 and an additional six credits in upper division
NFS courses
- Biological Sciences 1510
- Chemistry 1220, 1230, 1240, 1250, 2220
- Economics 2010
- Psychology 1020
- Management 4530
- Statistics 1020

COMMUNITY COLLEGE COURSES
Candidates for the degree may complete one course in each of the following areas: sanitation, food management, quantity food purchasing, and quantity food production. As many as twelve credits from these courses can be applied to the degree either by transfer from previous community college work or by concurrent enrollment with a local community college. For an approved list of courses from area institutions, consult the Department.

Bachelor of Science with a Major in Nutrition and Food Science

This program is designed for science-oriented students who are interested in the various food and nutrition professions. Students are prepared for these professions by the integration of chemistry and the biological sciences with courses in food science and nutrition. Employment opportunities may be found in various phases of food processing, research and development, public health, and community education, as well as in positions in state and federal regulatory agencies dealing with food products. The program provides good preparation for medical school application. Students should consult an adviser for program planning.

Admission Requirements: See above under Bachelor’s Degrees.
DEGREE REQUIREMENTS: See above under Bachelor’s Degrees.
Major Requirements: Students must complete seventy-six credits in science courses of which at least thirty-one must be in the major subject, nutrition and food science:

CORE COURSES
Nutrition and Food Science 2130, 2140, 2210, 2220, 5130, 5140, 5230, 5250, 6160, 6850 and an additional three credits of upper division
course work in Nutrition and Food Science.
- Biological Sciences 1500, 1510, 2200, 2870
- Chemistry 1220, 1230, 1240, 1250, 2220, 2230, 2280, 2290
- Mathematics 1800
- Physics 2130, 2131, 2140, 2141
- Statistics 1020

* For specific requirements, see the Wayne State University Graduate Bulletin.

426 College of Science
Bachelor of Science in Dietetics

The coordinated program in dietetics is designed to prepare registration-eligible generalist practitioners. The special body of knowledge for the profession is the science of nutrition; skills for delivery of nutritional care encompass a number of closely-allied fields, such as food science, business, management, psychology, social sciences, economics, and communication. The strong base in science and other areas is developed through selection of relevant prerequisite and supporting cognate courses, and in the professional courses. Students apply the knowledge gained in supervised practice settings in food service, community and clinical dietetics. Graduates of the program receive a Bachelor of Science in Dietetics degree and are eligible to write the national registration examination for professional certification without the need for a separate internship. The dietetics program is currently granted accreditation status by the American Dietetic Association Commission on Accreditation for Dietetics Education, a specialized accrediting body recognized by The Council on Post-secondary Accreditation and the United States Department of Education.

Admission Requirements: Admission to this program is competitive and open only to students with at least junior standing in the College after completion of the core courses indicated below by an asterisk (*). Program application should be made during the winter semester preceding the fall semester of anticipated entry into the program. Transfer and post-baccalaureate students must meet the pre-professional science requirements (see core courses, below) before acceptance into the program. Transferability of credit must be verified by the College advisers and dietetics faculty. Additional costs relating to the professional component of the program (uniform, liability insurance, physical examination, transportation) are the responsibility of the student.

CORE COURSES:
Nutrition and Food Science: 2130*, 2140*, 2210*, 2220*, 5130, 5140, 5220, 5230, 5250, 5350, 6850
Anthropology 2100* or Sociology 2000*
Biological Sciences 1510*, 2200*, 2870*
Chemistry 1220*, 1230*, 1240*, 1250*, 2220*
Economics 2100*
Psychology 1020*
Statistics 1020*
Management 4530 *

DEGREE REQUIREMENTS: Candidates for this degree must complete at least 120 credits including the above core courses, the following sequence in dietetics, as well as any remaining courses necessary to satisfy the College Group Requirements and the University General Education Requirements (see page 381 and page 23).

DIETETICS SEQUENCE
Nutrition and Food Science 4100, 4205, 4210, 4220, 5200, 5360

Honors Program

Admission: A minimum grade point average (g.p.a.) of 3.3 is required for enrollment in the Department of Nutrition and Food Science Honors program. Prospective Honors students should consult with an adviser in the Department during the freshman year. Transfer students or others with a Nutrition and Food Science g.p.a. of 3.5 may be accepted into the program without having taken the NFS 2210 Honors section.

Honors Requirements:
1. Enroll in the Honors section of Nutrition and Food Science 2210.
2. Complete at least one 4000-level Honors Program seminar.
3. Complete at least three credits in an independent research project (NFS 5990).
4. Complete at least fifteen credits in honors-designated course work, including the above. The additional course work may be obtained in this department by taking an Honors option of upper-level NFS courses, or in any other department of the College.

Students must have an overall grade point average of 3.3 and maintain an overall grade point average of at least 3.0 in the major to be awarded the Honors Degree.

Minor in Nutrition and Food Science

Completion of the minor in Nutrition and Food Science requires a minimum of eighteen credits in Nutrition and Food Science courses as follows:
Nutrition and Food Science 2130, 2140, 2210, 2220, and an additional ten credits in upper division NFS courses

‘AGRADE’ —Accelerated Graduate Enrollment

Qualified seniors in Nutrition and Food Science having not less than a 3.5 g.p.a. may enroll simultaneously in the undergraduate and graduate program and apply a maximum of fifteen credits towards both the bachelor's and master's degrees in nutrition and food science. Students may apply for the Program as soon as they complete ninety credits towards the undergraduate degree. Graduate courses taken as part of the ‘AGRADE’ Program are assessed undergraduate rate tuition. Contact the Department for further information.

Post Bachelor Certificate in Dietetics

This program is available to students admitted to the Coordinated Program in Dietetics (CPD) who already have an undergraduate degree. Completion of the CPD makes graduates of the program eligible to take the National Registration Examination for Dietitians, which, when successfully completed, confers the legal designation of Registered Dietitian.

Admission Requirements: Students who have received an undergraduate degree from Wayne State University should contact the department for application procedures. Students who have received an undergraduate degree from another institution must complete the Application for Undergraduate Admission and have transcripts of previous work sent directly to the Office of Admissions. Application to the CPD is separate from that to the University (CPD applications should be obtained from the department office), and applications are accepted only once yearly; deadline is February 15 for program entry the following fall semester.

CERTIFICATE REQUIREMENTS: Students with a dietetics degree generally will have fulfilled all prerequisite course requirements; see Core Courses for the Bachelor of Science in Dietetics degree, above. Any courses in which the student had received a grade of ‘D’ or below must be repeated; any dietetics courses in which the student has received a grade of ‘C-PLUS’ or below must be repeated. Dietetics courses include Foodservice Management, Medical Nutrition Therapy (also called Clinical Nutrition or Diet Therapy), and Community Nutrition. Following successful completion of all Core Courses in the undergraduate degree program, the student will elect the Core Courses for the Post Bachelor Certificate in Dietetics.

Students who possess an undergraduate degree that is not in dietetics do not need to obtain a second undergraduate degree in dietetics, but they must complete all Core Courses for the Bachelor of Science in Dietetics, or their equivalents at other universities. Students in this category should consult with a dietetics adviser at their earliest
opportunity. Following successful completion of all Core Courses in the undergraduate degree program, the student will elect the Core Courses for the Post Bachelor Certificate in Dietetics.

CORE COURSES

NFS 4100, 4120, 4205, 4210, 4220, 5200, 5360, 6850

NUTRITION and FOOD SCIENCE COURSES (NFS)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

2030  (LS) Nutrition and Health. Cr. 3
Meets General Education Laboratory Requirement only when taken concurrently with coreq: NFS 2220. Food as a carrier of nutrients; food availability; nutrient utilization including digestion, metabolism and excretion. Patterns of food consumption based on biological, psychological and social needs; and anthropological findings. (F,W)

2130  Introductory Food Science. Cr. 3
Prereq: one college-level chemistry course. Chemical, physical and biological properties of foods which affect their keeping quality, nutritional and organoleptic values. For students interested in the scientific study of foods. (F,W)

2140  Introductory Food Science Laboratory. Cr. 1
Coreq: NFS 2130. Experimental study of principles discussed in NFS 2130. For students interested in the scientific study of food. Material fee as indicated in the Schedule of Classes. (F,W)

2210  Human Nutrition. Cr. 3-4
Prereq: CHM 1030, BIO 2870. Students in honors section elect for four credits. Principles of the science of nutrition. Emphasis on physiological requirements of nutrients for human growth, development and maintenance within the life cycle. Honors students participate in additional reading, discussion and presentations. (F,W)

2220  Nutrition Laboratory. Cr. 1
Coreq: NFS 2030 or 2210. Laboratory course for introductory nutrition. Material fee as indicated in the Schedule of Classes. (F,W)

3270  (PSY 3270) Eating Disorders. Cr. 3
Prereq: PSY 1010 or 1020 or consent of instructor. Causes and treatments of anorexia nervosa, bulimia nervosa, binge eating, and overeating, from biological, psychological, and social perspectives. (W)

4100  Nutrition Care Process I. Cr. 1
Prereq: NFS 2210; coreq: NFS 5220, 5350. Interpretation of lab values in assessing patients, review of medical records, medical terminology. (F)

4120  Nutrition Care Process II. Cr. 1
Prereq: NFS 4100, 5220, 5350; coreq: NFS 5250. Nutritional assessment, documentation in the medical record, planning therapeutic diets. (W)

4205  Nutritional Assessment. Cr. 2
Open only to students in coordinated dietetics program. Introduction to the practice of dietetics including coordinated education, role components, the nutrition care process, and medical terminology. Practice in basic skills in dietetics; interviewing, diet analysis including use of computers, and anthropometric measurement and analysis. (Y)

4210  Dietetic Practice I. Cr. 0
Prereq: NFS 5230, 5250; coreq: 4200, 5220. Open only to students in coordinated dietetics program. Supervised practice in specialty and critical care areas and in community settings; experiences in developing, implementing, evaluating and documenting care plans for individuals needing specialized nutrition support and nutrition education programs for health promotion and for high risk groups. Material fee as indicated in the Schedule of Classes. (F)

4220  Dietetic Practice II. Cr. 0
Prereq: NFS 4210. Open only to students in coordinated dietetics program. Near entry-level practice experience in management of nutritional care and nutrition services in the three areas of dietetic practice: food service and clinical and community dietetics. Material fee as indicated in the Schedule of Classes. (W)

4990  Directed Study. Cr. 1-4
Prereq: consent of instructor. (T)

5130  Food Chemistry. Cr. 3
Prereq: NFS 2130 or equiv., CHM 2220. Study of the chemical constituents of foods, their relationship to the biological and physical properties, and overall food quality. (W)

5140  Laboratory Techniques in Nutrition and Food Science. Cr. 4
Prereq: NFS 2130 and 2210 or equiv.; CHM 2220 or equiv. Basic modern and classical analytical techniques and instruments in nutrition and food science. Background theory to principles of instrumental assays. Procedures for evaluation of macro and micro food components analysis. Physiological functions relevant to nutrition. Material fee as indicated in the Schedule of Classes. (W)

5200  Advanced Dietetics. Cr. 3
Prereq: NFS 4205, 5230, 5250. Recommended for students in coordinated dietetics program. Development and refinement of dietetic practitioner skills through applications in critical care and specialty practice areas and in community agencies; theoretical basis for individual counseling and group process. (F)

5220  Community Nutrition. Cr. 3
Prereq: NFS 2130, 2140, 2210, 5230, 5250. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Introduction to management of nutritional care in healthy and at-risk persons throughout the lifespan. Identifying problems and planning interventions to meet population nutritional problems and to reduce nutrition-related health risks in community settings. Community assessment; organization and function of community agencies; interventions appropriate to small and large groups, including nutrition education. (F,W)

5230  Nutrition and Metabolism. Cr. 4
Prereq: NFS 2210, BIO 2870 or equiv. The physio-biochemical properties of nutrients and their biounctional interrelationships at the cellular and sub-cellular level. Carbohydrate, protein, and lipid metabolism and the role of vitamins and minerals in these metabolic processes. (F)

5250  Nutrition and Disease. Cr. 4
Prereq: NFS 5230. Application of the principles of biochemistry and physiology in the study of nutrient metabolism as altered by disease. The physio-biochemical basis for diet in the treatment of disease. May include some field experiences or clinical assignments. Units on team approach to patient care also included. (W)

5350  Organization and Management of Food Service Systems. Cr. 4
Prereq: NFS 2130, 2140, 2210. Survey of food service systems; factors affecting their successful operation. Components of quality assurance supporting well-being of target markets. Identification of operative management skills. (F)
5360 Management of Nutritional Care and Services. Cr. 3
Prereq: NFS 4200; coreq: 4220. Recommended for students in coordinated dietetics program. Application of management theory and principles in the three areas of dietetic practice; career planning and professional role development. (W)

5990 Honors Directed Study. Cr. 1-4 (Max. 6)
Prereq: undergraduate College honors standing; 3.3 g.p.a. (T)

5992 Supervised Field Experience. Cr. 2-4
Prereq: consent of instructor. Supervised field experience designed to correlate classroom theory with practical work. (T)

5996 Research in Food Science and Nutrition. Cr. 1-4 (Max. 6)
Prereq: consent of instructor. Minimum of 3 hours of lab research for each credit. Research projects under direction of faculty active in research. (T)

6020 Nutrient Gene Interaction. Cr. 3
Prereq: NFS 5230, 5130, 5140, or equiv. Introduction to molecular genetics concepts, terminology and molecular methodologies, with emphasis on nutrition and food science. Overview of nutrition and gene interaction in onset and progression of disease, cancer, and aging. (B)

6130 Food Preservation. (CHE 6130) Cr. 4
Prereq: BIO 2200, NFS 2130, and NFS 5130 or equiv. Fundamentals of food preservation: refrigeration, freezing, thermal processing, dehydration and concentration, salting and smoking, chemical preservation, radiation preservation, fermentation. Material fee as indicated in the Schedule of Classes. (B)

6160 Food Laws and Regulations. Cr. 3
Prereq: NFS 2210. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). State, federal and international food law; interpretations of regulatory food standards and determination of conformity of food products to them. Methods of food inspection. Role of the food law in assuring food safety, wholesomeness and nutritional quality. (F,W)

6210 Nutrition through the Life Cycle. Cr. 3
Prereq: NFS 2030 or 2210. Biological growth and nutritional requirements from fetal stages of development through aging. Nutritional standards in light of current epidemiological data and scientific research. (I)

6230 Nutrition and Physical Performance. (NFS 7230) Cr. 3
Prereq: NFS 2030 or 2210. How nutrients affect physical fitness and physical performance: how physical performance can be improved by adopting optimal dietary practice and how exercise and optimal nutrition can prevent human diseases. (B)

6270 Eating Behavior and Body Weight Regulation. (PSY 6270) Cr. 3
Prereq: BIO 2870. Central and peripheral regulation of food intake, normal and abnormal eating behavior, physiological and psychological regulation of body weight, different models of obesity, etiology of treatment of obesity. (B)

6280 Physiology and Nutrition. Cr. 4
Open only to middle- or high-school teachers. Prereq: teaching certificate; mathematics through algebra. Physiological processes and nutritional bases for health and disease. (F)

6850 (WI) Controversial Issues. Cr. 2
Prereq: consent of instructor; senior standing. Topics to be announced in Schedule of Classes. (W)

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**PHYSICS and ASTRONOMY**

*For specific requirements, see the Wayne State University Graduate Bulletin.*

**Office:** 135 Physics Research Building; 577-2721
Web: [http://www.physics.wayne.edu](http://www.physics.wayne.edu)

**Chairperson:** Lowell E. Wenger

**Associate Chairperson:** Jogindra M. Wadehra

**Academic Services Officer:** J. Scott Payson

**Professors**

**University Professor**
John D.G. Rather

**Associate Professors**
Giovanni Bonvicini, David A. Cinabro, Karur R. Padmanabhan, Claude A. Pruncau, Sergei Voloshin

**Assistant Professors**
Sean Gavin, Robert F. Harr, Peter M. Hoffmann, Boris Nadgorny, Alexey A. Petrov, Stephen F. Takach

**Adjunct Professors**
Gregory W. Auner, Xiaoyan Han

**Degree Programs**

**BACHELOR OF ARTS with a major in physics**

**BACHELOR OF SCIENCE in Physics with concentrations in general physics, applied physics and pre-medical physics**

*MASTER OF ARTS with a major in physics*

*MASTER OF SCIENCE with a major in physics*

*DOCTOR OF PHILOSOPHY with a major in physics*

Physics is the science that describes the behavior of the physical world. It is the most basic of all sciences and as such is responsible for the interpretation of fundamental physical processes which support many other scientific disciplines. The study of physics involves many of the significant ideas that have shaped Western civilization, and the excitement of ongoing scientific challenges. Currently physicists conduct research into the basic laws of nature and also make use of these ideas to design and develop new technologies. Thus, training in physics offers a variety of opportunities. Careers are possible in research laboratories, in academic teaching capacities, in hospitals, the military, power plants, museums, patent law firms, computer companies, and in a host of other areas.

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College of Science 429
Faculty members in this Department are devoted to teaching and research and hold national and international reputations in their areas of specialization, which include: high energy physics, nuclear physics, atomic physics, the physics of condensed matter, material science, mathematical physics, applied physics, and quantum field theory. They organize and participate in conferences, publish extensively, and receive numerous outside grants, contracts and fellowships. In addition, they engage in many collaborations with scientists in both foreign and American universities and national laboratories.

Physics Colloquium: The department colloquium is normally held Thursday afternoons. Advanced undergraduates are invited to attend.

BACHELOR’S DEGREES

Admission Requirements: Admission to various programs is contingent upon admission to the College, requirements for which are satisfied by the general undergraduate admission requirements for the University; see page 15.

DEGREE REQUIREMENTS: A candidate for the bachelor’s degree must complete at least 120 credits in course work, including satisfaction of the College Group Requirements (see page 381) and the University General Education Requirements (see page 23), as well as the additional requirements pertaining to the bachelor’s program selected. Note: In some cases the requirements of a specific program will increase the number of credits above 120. All course work must be completed in accordance with the regulations of the University and the College governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 381.

The University requirement for a writing intensive (WI) course in the major field is satisfied (1) for the general physics and applied physics options of the Bachelor of Science in Physics degree, through PHY 6850; (2) for the Bachelor of Arts degree and the pre-medical physics option of the Bachelor of Science in Physics degree, through PHY 5600. It should be noted in each case that the requirement is satisfied by an additional writing project beyond the normal course requirements.

Students should consult with the undergraduate physics adviser in the Physics Research Building for more detailed information concerning the various degrees and options outlined below.

Bachelor of Science in Physics

The Bachelor of Science program offers several options. Each option is designed to meet the needs of a particular group of students although each is flexible enough to avoid limiting the student to a particular future program. Students take a logically-developed sequence of physics courses on a broad range of topics. The introductory sequence uses calculus, and later courses investigate single areas in greater depth, using more advanced mathematics. In advanced laboratory courses the physics student uses sophisticated equipment and sometimes has an opportunity to join a research team.

— General Physics Option

This option is primarily for students who intend to go on to graduate study in physics. It also satisfies the requirements of industrial and governmental employers who demand a traditional education in physics.

Additional requirements beyond the basic ones listed above:
1. PHY 6200, 6300, 6500, 6600, 6800, and the Modern Physics laboratory course PHY 6850 (total eighteen credits).
2. MAT 5070 and 5220 (total eight credits).

Typical General Physics Sequence 1
— including University and College Group Requirements

Freshman Year

Fall Semester
Chemistry 1220/1230: Cr. 5
Mathematics 2010: Cr. 4
University Group Req.: Cr. 3-4
English (BC): Cr. 4
UGE 1000 (GE): Cr. 1
Total credits: 17-18

Winter Semester
Physics 2170/2171: Cr. 5
Mathematics 2020: Cr. 4
University Group Req.: Cr. 3-4
English (IC): Cr. 3-4
Total credits: 15-17

Sophomore Year

Fall Semester
Physics 2180/2181: Cr. 5
Mathematics 2030: Cr. 4
(2) for the Bachelor of Arts degree and the pre-medical physics option of the Bachelor of Science in Physics degree, through PHY 5600. It should be noted in each case that the requirement is satisfied by an additional writing project beyond the normal course requirements.

Students should consult with the undergraduate physics adviser in the Physics Research Building for more detailed information concerning the various degrees and options outlined below.

Bachelor of Science in Physics

The Bachelor of Science program offers several options. Each option is designed to meet the needs of a particular group of students although each is flexible enough to avoid limiting the student to a particular future program. Students take a logically-developed sequence of physics courses on a broad range of topics. The introductory sequence uses calculus, and later courses investigate single areas in greater depth, using more advanced mathematics. In advanced laboratory courses the physics student uses sophisticated equipment and sometimes has an opportunity to join a research team.

— Basic Requirements for All Options

1. Physics 2170, 2171, 2180, 2181, 3300, 3310, 5200, 5600 (total 21 credits).
3. Chemistry 1220 and 1230 (five credits).
4. Satisfaction of all University and College group and competency requirements.

1. Not including the required oral communication (OC) course and/or a critical thinking (CT) course.
Senior Year

Fall Semester
Physics 6500: Cr.4
Physics 6800: Cr.3
College Foreign Lang. II: Cr.4
Total credits: 11

Winter Semester
Physics 6500: Cr.4
Physics 6800: Cr.3
College Foreign Lang. III: Cr.4
University Group Req.: Cr.3-4
Total credits: 13-14

— Applied Physics Option
The B.S. degree in the Applied Physics option is intended to provide the interdisciplinary training that is required for a variety of applied fields, while still providing an understanding of the physical foundations of those fields. Programs are designed to combine fundamental physics courses with engineering and other science courses, in order to prepare students for careers in industry (particularly engineering fields) as well as graduate programs in these areas. There is sufficient flexibility in this program that a set of courses can be designed to match a student's interest in such areas as semiconductor physics, material physics, computational physics, biophysics, optics and laser physics, and other areas. Students interested in enriching their education with on-the-job experience may apply for internships with cooperating research laboratories by contacting the departmental undergraduate adviser.

Additional requirements beyond the basic ones listed above:
1. PHY 6300, 6500, and the laboratory courses PHY 5620 and 6850 (total 14 credits).
2. A total of at least twenty-four additional credits in physics, mathematics, or other science/technical courses.
3. MAT 5070 is not required but is recommended for those interested in graduate study in physics (four credits).

Typical Applied Physics Sequence

— including University and College Group Requirements

Freshman Year
Fall Semester
Chemistry 1220/1230: Cr.5
Mathematics 2010: Cr.4
English (BC): Cr.4
UGE 1000 (GE): Cr.1
University Group Req.: Cr.3-4
Total credits: 17-18

Winter Semester
Physics 2170/2171: Cr.5
Mathematics 2020: Cr.4
English (IC): Cr.3-4
Applied Elective: Cr.4
Total credits: 16-17

Sophomore Year
Fall Semester
Physics 2180/2181: Cr.5
Mathematics 2030: Cr.4
(LS) Elective: Cr.4

1. Not including the required oral communication (OC) course and/or a critical thinking (CT) course.

University Group Req.: Cr.3-4
Total credits: 16-17

Senior Year
Fall Semester
Physics 6500: Cr.4
Physics 6850: Cr.2
Applied Electives: Cr.5
University Group Req.: Cr.3-4
Total credits: 13-14

Junior Year
Fall Semester
Physics 5600: Cr.4
Applied Elective: Cr.4
Foreign Lang. I: Cr.4
Univ. Group Req.: Cr.3-4
Total credits: 15-16

Winter Semester
Physics 5200: Cr.3
Applied Electives: Cr.7
Foreign Lang. II: Cr.4
Univ. Group Req.: Cr.3-4
Total credits: 17-18

Suggested Applied Electives for Various Options

Semiconductor / Materials Physics: Twenty-five credits
B E 1300/1310; ECE 4570, 4600, 5500 (or MSE 5010), 5510; PHY 6450
(or PHY 5350), 6600.
Optics and Laser Physics: Twenty-seven credits
B E 1300/1310; ECE 4570, 4600, 5870; PHY 5350, 6350, 6600.
Biophysics: Twenty-nine credits
BIO 1500, 1510, 3400, 3410, 6020, 6160; PHY 5350, 6500.
Computational Physics: Twenty-five credits
CSC 2000, 2110, 2200, 4110; PHY 6860; MAT 5070.

— Pre-Medical Physics Option
This option is specifically designed for students who wish to go on to medical school. It provides a background enabling the physician to use the full potential of modern medical instrumentation. In addition to required courses in the fundamentals of physics, the student may elect to take courses which will directly benefit his/her intended medical specialty. For example, a prospective ophthalmologist can study optics; an orthopedic surgeon, mechanics; a radiologist, atomic physics and radiation.

Additional requirements beyond the basic ones listed above:
BIO 1500, 1510, 3070 and one additional course in biology; CHM 1240, 1250, 2220, 2230, 2280, and 2290 (which fulfill current medical
school requirements); PHY 5620 and at least six additional credits in physics at the 5000-level or above. Students should consult the University Advising Center for possible changes in premedical requirements outlined in the following suggested curriculum.

**Typical Pre-Medical Physics Sequence**

**of Science and Mathematics Courses**

University and College Group Requirements must also be satisfied; consult with the Undergraduate Adviser, Physics Research Building.

**Freshman Year**

**Fall Semester**

Chemistry 1220/1230: Cr.5
Mathematics 2010: Cr.4

**Winter Semester**

Chemistry 1240/1250: Cr.5
Mathematics 2020: Cr.4
Physics 2170/2171: Cr.5

**Sophomore Year**

**Fall Semester**

Physics 2180/2181: Cr.5
Biology 1500: Cr.4
Mathematics 2030: Cr.4

**Winter Semester**

Physics 3300/3310: Cr.4
Physics 5200: Cr.3
Biology 1510: Cr.4
Mathematics 2350: Cr.3

**Junior Year**

**Fall Semester**

Physics 5600: Cr.4
Chemistry 2220/2230: Cr.5
Biology 3070: Cr.4

**Winter Semester**

Physics 5620: Cr.5
Chemistry 2280/2290: Cr.5

**Senior Year**

**Fall Semester**

Physics Elective: Cr.3-4
Biology Elective: Cr.4

**Winter Semester**

Physics Elective: Cr.3-4

**Bachelor of Arts**

**With a Major in Physics**

This program is intended to meet the needs of several kinds of students:

(a) students wishing to major in physics who have transferred to Wayne State University after one or two years at a community college, but whose background in physics and mathematics does not complement the content, level, or scheduling of remaining course requirements well enough to permit completion of the Bachelor of Science degree curriculum in a reasonable time;

(b) students who wish to pursue a general course of education in the sciences with physics as an area of concentration. Those who undertake such a program are sometimes interested in the study of physics as an integrated part of a broad educational background;

(c) students who decide relatively late in their college careers (for example, during the sophomore year) that they wish to major in physics.

It should be emphasized that completion of the Bachelor of Arts program instead of the Bachelor of Science program does not preclude later graduate work in physics. In most cases, it will mean that the student will spend part or all of his/her first year in graduate school making up deficiencies in his or her physics and mathematics background. Generally speaking, such deficiencies may be determined by consulting the suggested course sequence of the Bachelor of Science degree in physics, presented earlier.

**DEGREE REQUIREMENTS:**

1. Physics 2170, 2171, 2180, 2181, 3300, 3310. A student may present credits in Physics 2130, 2140 or equivalent, in lieu of Physics 2170 and 2180, with the consent of the Departmental Undergraduate Adviser.

2. At least seventeen additional credits in physics at the 5000 or 6000 level including 5200 and 5600.


(b) Intermediate Mathematics Course: MAT 5070.

4. Chemistry 1220 and 1230 (five credits).

5. Satisfy all University and College Group Requirements and Competency Requirements.

**Advanced Placement**

Advanced placement college credit in physics may be obtained by earning a score of 5 in the calculus-based Advanced Placement (AP) physics ‘C’ qualifying examination. Credit is awarded for PHY 2170 and 2171 if a score of 5 is received in the mechanics portion of the AP physics exam. Also, credit is awarded for PHY 2180 and 2181 if a score of 5 is received in the electricity and magnetism portion of the AP physics exam. Students may enroll in all the subsequent courses provided all the prerequisites for those courses are met.

**Minor in Physics**

The Department of Physics and Astronomy offers a minor in physics to qualified students from other departments. The requirement for a minor consists of Physics 2170, 2171, 2180, and 2181 (or Physics 2130, 2131, 2140, and 2141) plus Physics 3300/3310 and at least two other physics courses at the 3000 level or above. Students should consult the Departmental Undergraduate Adviser for approval of the minor prior to undertaking the program.

**Courses for Non-Science Majors**

The Department of Physics and Astronomy offers several courses designed primarily for non-science majors for which only minimal high school mathematics preparation is needed. The courses are AST 2010, PHY 1020, 1040, 2020, and 3100. The laboratories connected with AST 2010, PHY 1020, and PHY 3100 satisfy the natural science laboratory group requirements.

**Scholarships and Awards**

**Vaden W. Miles Undergraduate Award:** A monetary award is given to a graduating senior(s) majoring in physics with the most outstanding scholastic record(s).

**Department of Physics Undergraduate Scholarships:** Scholarships of $500 and $1000 are available to entering freshmen and current full-time undergraduates who are majoring in physics. Selection is based primarily on scholastic achievement and secondarily on the basis of financial need. One scholarship is awarded to an incoming freshman physics major, and depending upon satisfactory progress of the recipient, will be renewed annually up to four years. Another scholarship is open to all full-time undergraduate physics majors with a minimum grade point average of 3.0 or above. For further information, contact the Department of Physics and Astronomy, 135 Physics Building.
UNDERGRADUATE COURSES

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

ASTRONOMY COURSES (AST)

2010  (PS) Descriptive Astronomy. Cr. 4
Lecture course that introduces the concepts and methods of modern astronomy, the solar system, stars, galaxies, and cosmology; recent discoveries about planets, moons, the sun, pulsars, quasars, and black holes. (T)

2011  Descriptive Astronomy Laboratory. Cr. 1 (LAB: 2)
Coreq: AST 2010 or 5010, PHY 5010, or consent of instructor. Laboratory exercises and observations; includes two late evening viewing sessions. Satisfies General Education Laboratory requirement when taken concurrently with AST 2010. Material fee as indicated in the Schedule of Classes. (T)

5010  Astrophysics and Stellar Astronomy. (PHY 5010)
Cr. 3 (LCT: 3)
Prereq: PHY 2140 or PHY 2180, MAT 2010, or consent of instructor. Electromagnetic radiation and matter; solar characteristics; stellar distances; magnitudes; spectral classification; celestial mechanics; binary stars; stellar motions, structure and evolution; compact and variable stars; Milky Way Galaxy and interstellar medium; galaxies and clusters of galaxies; quasars; Hubble’s Law; cosmology. (B:W)

6180  (PHY 6180) Astronomy and Planetary Geology for Secondary-School Educators. Cr. 3-4
Open only to middle- or high school teachers. Prereq: PHY 2130, 2140. Material fee applies when taken for four credits (optional laboratory). Quantitative description of constituents of solar system. Required math: algebra and trigonometry. Material fee as indicated in the Schedule of Classes. (F)

PHYSICS COURSES (PHY)

All courses with a laboratory have a non-refundable materials fee and are so indicated in the Schedule of Classes.

1020  (PS) Conceptual Physics: The Basic Science. Cr. 3-4
Meets General Education Laboratory Requirement when elected for 4 credits (fee applies). Physical concepts and practical applications to everyday life of the basic principles of motion, forces, energy, matter, heat, sound, electricity, magnetism, and light. Lectures, demonstrations and optional laboratory; laboratory is strongly recommended. Material fee as indicated in Schedule of Classes. (T)

1040  (PS) Einstein, Relativity and Quanta: A Conceptual Introduction. Cr. 3-4
Open for four credits only to Honors students. Einstein and the origin of the special theory of relativity; the curvature of space; the uncertainty principle; the quantum theory; the interaction of observer and measurement; fission and fusion; the influence of modern physical theories on society and philosophy. Honors students have one additional hour per week of recitation and are required to write a major paper. (I)

1070  (PS) Energy and the Environment. Cr. 4 (LCT: 3;LAB:2)
Prereq: high school algebra. Introduction to energy production and usage, and environmental impact. Topics include: fossil fuels, electricity, pollution, nuclear power, solar power. Meets General Education Laboratory requirement. Material fee as indicated in the Schedule of Classes. (I)

2020  Science, Technology, and War. (HIS 2510) (P S 2440) (PCS 2020) Cr. 4
May not be used to fulfill natural science group requirement. Modern weapons, nuclear and otherwise, becoming increasingly available and dangerous; people with grievances eager to use them. Science and technology behind weapons development and use; impact of technologies on prospects and results of war and peace. Constraints of career, bureaucracy and society upon development, deployment and use of weapons. History of humanity and its tools of war. (W)

2130  (PS) General Physics. Cr. 3
Prereq: high school algebra and trigonometry; coreq: PHY 2131. Satisfies General Education laboratory requirement only when taken concurrently with PHY 2131. No credit after PHY 2170. For general Liberal Arts and Science students and for students preparing for medicine, dentistry, pharmacy and health sciences. Mechanics, thermal physics, wave motions, and optics. (T)

2131  General Physics Laboratory. Cr. 1 (LAB: 2)
Coreq: PHY 2130. Satisfies General Education laboratory requirement only when taken concurrently with PHY 2130. Laboratory experiments in mechanics, thermal physics, wave motions and optics. Material fee as indicated in the Schedule of Classes. (T)

2140  General Physics. Cr. 3
Prereq: PHY 2130; coreq: PHY 2141. No credit after PHY 2180. Continuation of PHY 2130. Electricity, magnetism and introduction to modern physics. (T)

2141  General Physics Laboratory. Cr. 1 (LAB: 2)
Coreq: PHY 2140. Laboratory experiments in electricity, magnetism and modern physics. Material fee as indicated in the Schedule of Classes. (T)

2170  (PS) General Physics. Cr. 4
Prereq: PHY 2170; coreq: PHY 2171. Satisfies General Education laboratory requirement only when taken concurrently with PHY 2171. No credit after PHY 2175. For students specializing in physics, biology, chemistry, mathematics or engineering. Statics, kinematics, dynamics, energy and linear momentum, rotational kinematics and dynamics, angular momentum, solids and fluids, vibrations and wave motion, thermodynamics. (T)

2171  General Physics Laboratory. Cr. 1 (LAB: 2)
Coreq: PHY 2170. Satisfies General Education laboratory requirement only when taken concurrently with PHY 2170. Laboratory experiments in statics, kinematics, dynamics, energy and linear momentum, rotational kinematics and dynamics, angular momentum, simple harmonic motion, optics, continuum mechanics, thermodynamics. Material fee as indicated in the Schedule of Classes. (T)

2175  (PS) General Physics. Cr. 4
Prereq: PHY 2170; coreq: PHY 2180. Open only to College of Engineering students; others by written consent of instructor. No credit after PHY 2170. For students specializing in engineering. Statics, kinematics, dynamics, energy and linear momentum, rotational kinematics and dynamics, angular momentum, solids and fluids, vibrations and wave motion, thermodynamics. (T)

2180  General Physics. Cr. 4
Prereq: PHY 2170, PHY 2180; coreq: PHY 2181. No credit after PHY 2185. Electric forces and electric fields, electrical energy, capacitance, current, resistance, direct current circuits, magnetism, induced voltage and inductance, AC circuits, electromagnetic waves, geometric and wave optics. (T)

2181  General Physics Laboratory. Cr. 1 (LAB: 2)
Coreq: PHY 2180. Laboratory experiments in electrostatics, currents and circuit elements, magnetic fields, magnetic induction, AC circuits, electromagnetic waves, interference of waves. Material fee as indicated in the Schedule of Classes. (T)
2185 General Physics. Cr. 4
Prereq: PHY 2175, MAT 2020. Open only to College of Engineering students; others by written consent of instructor. No credit after PHY 2180. Electric forces and electric fields, electrical energy, capacitance, current, resistance, direct current circuits, magnetism, induced voltage and inductance, AC circuits, electromagnetic waves, geometric and wave optics. (T)

2210 General Physics Laboratory. Cr. 1-2 (Max. 2)
Prereq: PHY 2175 or 2185 if taken for four credits or consent of instructor. No credit after PHY 2170 or PHY 2180 if taken for five credits; register for one credit per section. Laboratory for PHY 2170 and PHY 2180. Material fee indicated in the Schedule of Classes. (T)

3100 (PS) The Sounds of Music. Cr. 4
Prereq: sophomore standing. Meets General Education Laboratory Requirement. For music majors and other students interested in the physical foundations of the production, perception, and reproduction of musical sounds. Makes only limited use of simple mathematics. Includes topics such as wave properties, loudness levels and the human ear, hearing loss, tone quality, frequency and pitch, musical intervals and tuning, room acoustics, the production of sound by various musical instruments, and electronic reproduction of music. Material fee as indicated in the Schedule of Classes. (Y:F)

3300 Introductory Modern Physics. Cr. 3
Prereq: PHY 2180 or consent of instructor; coreq. for physics majors only: PHY 3310. For physics, chemistry, engineering, mathematics majors and other interested students. Introduction to relativity, quantum phenomena, atomic structure, quantum mechanics, condensed matter physics, quantum optics, nuclear physics, elementary particles, and anti-particles. (F,W)

3310 Modern Physics Laboratory. Cr. 1
Prereq: PHY 2140 or 2180; coreq. PHY 3300. Laboratory course to accompany PHY 3300. Hands-on experience in logical and rigorous analysis of phenomena of modern physics. (F,W)

3990 Directed Study. Cr. 1-3
Prereq: consent of adviser and instructor. Primarily for students who wish to continue in a field beyond material covered in regular courses, or who wish to study material not covered in regular courses, including certain research participation. (T)

5010 (AST 5010) Astrophysics and Stellar Astronomy. Cr. 3
Prereq: PHY 2140 or 2180, MAT 2010 or consent of instructor. Electromagnetic radiation and matter; solar characteristics; stellar distances; magnitudes; spectral classification; celestial mechanics; binary stars; stellar motions, structure and evolution; compact and variable stars; Milky Way Galaxy and interstellar medium; galaxies and clusters of galaxies; quasars; Hubble’s Law; cosmology. (B:W)

5030 Plasma Physics. Cr. 3
Prereq: PHY 5600, or 2180 and consent of instructor and MAT 2030. Introduction to plasma physics for students in science and engineering. Motion of charged particles in electromagnetic fields; magnetionic theory including electron conductivity and mobility; wave propagation in a plasma; plasma kinetic theory with emphasis on Boltzmann, Vlasov and Fokker-Planck equations; plasma sheaths. (B:F)

5200 Mechanical Phenomena. Cr. 3
Prereq: PHY 2180, or 2140 with consent of instructor; MAT 2030. Dynamics of particles and systems including central force motion, coupled oscillations and waves in elastic media. (W)

5350 Optics. Cr. 3-5
Prereq: PHY 2180 or 2140, MAT 2030. Only non-physics majors may take course without laboratory. Geometrical and physical optics: wave motion, interference, diffraction, refraction, dispersion, polarization. Material fee as indicated in the Schedule of Classes. (F)

5550 Basic Electronics. Cr. 4
Prereq: PHY 2140. Not open to physics majors. Basic electronics for biologists, chemists, high school science teachers and other interested students. D.C. and A.C. circuits, transistor circuits, solid state devices, amplifiers, oscillators, basic logic, and applications to measurement and instrumentation. Material fee as indicated in the Schedule of Classes. (F)

5600 (WI) Electricity and Magnetism I. Cr. 4
Prereq: PHY 2180, or 2140 with consent of instructor; MAT 2350. Electric forces, fields, potentials, Gauss’ law, electrostatics, currents, Ampere’s and Faraday’s Laws, vector potential, Maxwell’s equations. (F)

5620 Electronics and Electrical Measurements. Cr. 5
Prereq: PHY 5600 or consent of instructor. Amplifier circuits, operational amplifiers, oscillators, digital electronics, analog and digital measurements. (W)

5990 Directed Study. Cr. 1-3
Prereq: junior standing and consent of adviser and instructor. Primarily for students who wish to continue in a field beyond material covered in regular courses, or who wish to study material not covered in regular courses, including certain research participation. (T)

6050 Special Topics in Physics for Secondary-School Educators. Cr. 3
Prereq: introductory physics courses in mechanics, and in electricity and magnetism; or consent of instructor. Open only to pre-college or community college teachers. Special topics in physics designed for secondary teachers. Topics offered as needed; may include: astronomy and cosmology, meteorology, relativistic quantum theory, atomic and nuclear physics, optics. (Y)

6100 Classical Physics for Secondary School Educators. Cr. 3
Open only to middle- or high school teachers. Prereq: PHY 2130, 2140. Mechanics, electricity, magnetism: fundamentals. Applications to problem solving. Selected special topics. Required math: algebra and trigonometry. (F)

6120 Energy Generation and Consumption for Secondary-School Educators. Cr. 3-4
Open only to middle- or high school teachers. Prereq: PHY 2130, 2140. Material fee applies when elected for four credits (optional laboratory). Different sources of energy and how their use impacts the environment. Required math: algebra and trigonometry. Material fee as indicated in the Schedule of Classes. (W,S)

6160 Meteorology for Secondary-School Educators. Cr. 3-4
Open only to middle- or high school teachers. Prereq: PHY 2130, 2140. Material fee applies when elected for four credits (optional laboratory). Earth’s atmosphere and various weather processes. Required math: algebra and trigonometry. Material fee as indicated in the Schedule of Classes. (S)

6180 Astronomy and Planetary Geology for Secondary-School Educators. (AST 6180) Cr. 3-4
Open only to middle- or high school teachers. Prereq: PHY 2130, 2140. Material fee applies when taken for four credits (optional laboratory). Quantitative description of constituents of solar system. Required math: algebra and trigonometry. Material fee as indicated in the Schedule of Classes. (F,S)

6200 Theoretical Mechanics. Cr. 3
Prereq: PHY 5200 and MAT 2350. Accelerated reference frames, centrifugal and Coriolis forces, rigid body dynamics, motion of tops and gyroscopes, Lagrange’s equations, constraints, Lagrange multipliers, general central force problem, stability of orbits, relativistic mechanics. (F)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6300</td>
<td>Quantum Theory</td>
<td>Cr. 3</td>
<td>PHY 3300, MAT 5070, and MAT 5220</td>
<td>Presentation of quantum mechanics in a self-consistent manner in which basic principles are introduced. Concepts of quantum-mechanical states and amplitudes are clearly established before the introduction of wave functions. (W)</td>
</tr>
<tr>
<td>6350</td>
<td>Applied Modern Optics</td>
<td>Cr. 3</td>
<td>PHY 5350</td>
<td>Coherent radiation, laser physics and optical devices, techniques in experimental science, topics in modern optics. (B:W)</td>
</tr>
<tr>
<td>6450</td>
<td>Introduction to Material and Device Characterization</td>
<td>Cr. 4</td>
<td>PHY 7050 or ECE 5500 or ECE 5550 or equiv.</td>
<td>Introduction to analytic and measurement techniques for characterizing and evaluating materials, especially for potential applicability in sensor and integrated devices. Techniques include diffraction and microscopy methods, electron spectroscopies, and electrical, optical and magnetic measurements. (W)</td>
</tr>
<tr>
<td>6500</td>
<td>Thermodynamics and Statistical Physics</td>
<td>Cr. 4</td>
<td>PHY 3300, MAT 2030</td>
<td>Laws of thermodynamics, thermodynamic equilibrium, applications of kinetic theory of gases, basic introduction to classical and quantum statistical description of physical systems with large numbers of particles. (F)</td>
</tr>
<tr>
<td>6600</td>
<td>Electricity and Magnetism II</td>
<td>Cr. 3</td>
<td>PHY 5600 and MAT 5070</td>
<td>Electromagnetic radiation, electromagnetic waves, magnetic materials, superconductivity, potential relativity, 4-vectors, fields in bounded regions, wave guides, resonant cavities. (W)</td>
</tr>
<tr>
<td>6800</td>
<td>Atoms, Molecules and Solids</td>
<td>Cr. 3</td>
<td>PHY 5200, 5600, MAT 2350</td>
<td>Study of one-electron atoms using solutions of three-dimensional Schrödinger Equation, magnetic moments, transition rates, multielectron atoms, x-ray excitations, LS coupling, Zeeman and Paschen-Bach effects, molecules, bonds, various types of spectra, solids, conductors, semiconductors, band theory, superconductivity. (F)</td>
</tr>
<tr>
<td>6810</td>
<td>Nuclei and Elementary Particles</td>
<td>Cr. 3</td>
<td>PHY 6800</td>
<td>Basic understanding of subatomic physics. Modern ideas in nuclear and elementary particle physics; emphasis on common concepts and features. Relationships to experimental results. (W)</td>
</tr>
<tr>
<td>6850</td>
<td>(WI) Modern Physics Laboratory</td>
<td>Cr. 2</td>
<td>PHY 3300 or consent of instructor</td>
<td>Techniques and experiments in physics of atoms, atomic nuclei, molecules, the solid state and other areas that have advanced our modern understanding of physics. Material fee as indicated in the Schedule of Classes. (W)</td>
</tr>
<tr>
<td>6860</td>
<td>Computational Physics</td>
<td>Cr. 3</td>
<td></td>
<td>Introduction to computational languages and local computational environment; description of techniques in numerical analysis including linear algebra, integration, algebraic and differential equations, data analysis and symbolic algebra; optimization and parallel computing. (B:W)</td>
</tr>
<tr>
<td>6991</td>
<td>Special Topics</td>
<td>Cr. 1-4</td>
<td>consent of instructor</td>
<td>Offered for S and U grades only. Topics and prerequisites for each section to be announced in Schedule of Classes. More than one section may be elected in a semester. (Y)</td>
</tr>
</tbody>
</table>

**PSYCHOLOGY**

**Office**: Room 214, 71 West Warren; 577-2800

**Interim Chairperson**: Joseph L. Jacobson

**Associate Chairperson**: Kathryn A. Urberg

**Associate Chairperson**: R. Douglas Whitman

**Website**: [http://www.science.wayne.edu/~psych](http://www.science.wayne.edu/~psych)

**Professors**


**Associate Professors**

Douglas Barnett, George Borsocz, Rita Casey, Kenneth Davidson (Emeritus), Sebastiano Fiscaro, Winifred R. Fraser (Emeritus), Melissa G. Kaplan-Estrin, Brian Lakey, Cary M. Lichtman, Mark Lumley, Lisa Rapport, Sarah Raz, Michael M. Reece (Emeritus), Patricia Siple, Paul Toro

**Research Professor**

Sandra W. Jacobson

**Research Assistant Professor**

Scott Bowen

**Research Scientists**

Ali Naqvi, Frederika Shea

**Adjunct Professors**

Kenneth Adams, Naomi Breslau, Mitchell Rosenthal

**Adjunct Associate Professors**

Mark Ketterer, Helene Lycaki, Daphna Oyserman, Timothy Roehrs

**Adjunct Assistant Professors**


**Degree Programs**

**BACHELOR OF SCIENCE** with a major in psychology

**BACHELOR OF ARTS** with a major in psychology

*MASTER OF ARTS* with a major in psychology

*MASTER OF ARTS* in Human Development

*Also see: MASTER OF ARTS in Industrial Relations*

*DOCTOR OF PHILOSOPHY* with a major in psychology and concentrations in biopsychology, clinical, cognitive, developmental, industrial/organizational, or social psychology

*For specific requirements, see the Wayne State University Graduate Bulletin.*

**College of Science** 435
Undergraduate training offered by the Department of Psychology serves several related purposes. For the science major and the liberal arts major, the study of psychology provides an opportunity to learn the scientific approach to the study of behavior which will include material helpful in increasing self-understanding and insight into the behavior of others. For students preparing for medicine, law, education, nursing, business, and other professions, psychology provides important basic knowledge useful in these vocations. For those planning to carry on graduate study in psychology, undergraduate instruction establishes a sound foundation for entering graduate programs in psychology. For those students who plan to work as technicians or paraprofessionals in an area related to human development, psychology provides a theoretical foundation and basic skills.

During the freshman year, or as early as possible, students interested in psychology should visit the department’s undergraduate office to obtain brochures describing the various psychology programs. Students considering a major in this field should read the Bulletin for the Psychology Major before meeting with an adviser to discuss their declaration of major. The Bulletin is available from the Undergraduate Adviser of the Psychology Department, who will arrange student appointments.

Students planning to enter a Ph.D. program in psychology after graduation should have a solid background in the core areas of the field. These areas include learning, perception, abnormal, social, developmental, physiological, and cognitive psychology. In addition, all graduate programs require a background in statistics and experimental design.

**Bachelor of Science or Bachelor of Arts**

**Admission Requirements** for the College are satisfied by the general requirements for undergraduate admission to the University; see page 15.  

**Declaring a Major:** Before declaring a major in psychology, students must complete PSY 1010, Introductory Psychology, or PSY 1020. Elements of Psychology, and have at least a 2.0 overall grade point average. Although students normally declare their major during the semester in which they have will have earned sixty credits, they may declare a major in psychology prior to that time.

A student is not considered a psychology major until he/she completes the process to declare a major, the first step of which is an appointment with an adviser at the University Advising Center. The second step in the process is an appointment with a psychology adviser. The final step is delivery of the signed Declaration of Major form to the Dean’s Office of the College of Science.

**DEGREE REQUIREMENTS:** Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of College Group Requirements (see page 381) and the University General Education Requirements (see page 23), as well as the major requirements. All course work must be completed in accordance with the academic procedures of the University and the College; see sections beginning on page 23, 38, and 381.

**Major Requirements:** To graduate with a major in psychology, a student must complete satisfactorily at least thirty-three credits in the Department of Psychology beyond Introductory Psychology. Degree requirements include:

- PSY 1010 -- (LS) Introductory Psychology; Cr. 4
- PSY 3010 -- Statistical Methods in Psychology; Cr. 4

In the following curriculum, students are strongly urged to take PSY 3010 within one year after completion of PSY 1010. Transfer students are advised to take PSY 3010 in their first semester at Wayne State, or within one year of completion of PSY 1010. PSY 3010 is important in preparation for other courses, especially PSY 3050, 3070, and 3090.

**One lecture/laboratory combination chosen from the list below:**

- PSY 3040 -- Psychology of Perception: Fundamental Proc.: Cr. 3 and
- PSY 3050 -- Laboratory in Psychology of Perception: Cr. 2

- PSY 3060 -- Learning and Memory: Fundamental Processes: Cr. 3 and
- PSY 3070 -- Laboratory in Learning and Memory: Cr. 2

- PSY 3080 -- Cognitive Psychology: Fundamental Processes: Cr. 3 and
- PSY 3090 -- Laboratory in Cognitive Processes: Cr. 2

In satisfying a given laboratory course requirement, the lecture and laboratory sections can be taken concurrently or in separate semesters, but if taken separately, the lecture MUST be taken first. PSY 5993, the Writing Intensive (WI) Course in Psychology, may only be satisfied by co-registration with one of the laboratory courses above. (See course description for details.)

**Three of the following courses:**

- PSY 2400 -- Developmental Psychology: Cr. 4
- PSY 2600 -- Psychology of Social Behavior: Cr. 4
- PSY 3120 -- Brain and Behavior: Cr. 3
- PSY 3350 -- Psychology of Personality: Cr. 3
- PSY 3500 -- Psychology and the Workplace: Cr. 3
- PSY 4020 -- Research in Psychology: Cr. 3
- PSY 5050 -- Physiological Psychology: Cr. 3

- OR

Another (second) laboratory course from the selection listed above:

- PSY 3040/3050, 3060/3070, 3080/3090

No more than forty-six credits in psychology can be counted toward the total required for a degree. Transfer students must complete at least twenty credits in the Psychology Department at Wayne State University.

**The Bachelor of Science degree** requires a minimum of sixty credits in the natural sciences. Of these sixty credits a minimum of twenty-seven credits must be earned in natural science outside the field of psychology.

**The Bachelor of Arts** degree incorporates all of the College Group Requirements; see page 381.

**Preparation for Psychology Graduate Work:** While individual graduate programs in psychology have different requirements for admission, students who intend to do graduate work are advised to earn the B.A. or B.S. degree and take the following courses: Psychology 2400, 2600, 4020, 4990, and 5050. Additional courses in mathematics, computer science, biology, and sociology are strongly recommended.

**Psychology-related employment** for graduates with a bachelor’s degree has increased in recent years. Such employment, of course, has depended on the personal characteristics of the individual, on the special qualifications and training of the individual, and particularly on job opportunity.

**Honors Program**

Students with an overall grade point average of 3.3 are eligible for admission to the department’s Honors Program. Satisfactory completion of the Honors Program will lead to a degree ‘With Honors in Psychology’ on the diploma. Students interested in the program should obtain detailed information from the Academic Services Officer of the Psychology Department.

**Honors Sections** provide smaller classes, somewhat more advanced readings, and opportunities for independent work by students in the following courses: 1010 (Introductory Psychology), 2400
(Developmental Psychology), and 2600 (Psychology of Social Behavior). In addition, there is a senior Honors course (4998) in which students complete a senior thesis.

**Minor in Psychology**

All students considering psychology as a minor field of concentration may obtain an information sheet from the psychology undergraduate office.

**Minor Requirements:** For a minor in psychology, a student must complete a minimum of eighteen credits in psychology, one course of which must be Introductory Psychology (PSY 1010 or 1020). At least three of the courses must be taken at Wayne State. Psychology 4993 or 4994 (offered for S and U grades only) may not be counted in the eighteen required credits.

**Health Psychology Minor:** For this minor, a student must complete a minimum of eighteen credits in psychology. Courses must include: PSY 2410, 3310, 3120 or 5050; plus one of the following electives: PSY 2080, 2400, 2600, 3380, 5070, 6490, 4990, or 4993 (PSY 4990 and 4993 require prior approval from health psychology faculty).

Non-majors are encouraged to consult with departmental advisers regarding optimum course selections for various purposes.

**Financial Aid**


**PSYCHOLOGY COURSES (PSY)**

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

**1010  (LS) Introductory Psychology. Cr. 4**

Meets General Education Laboratory Requirement. No credit after PSY 1020. Introduction to the science of behavior. Principles, concepts, and theories of human thought and action. Selected concepts illustrated through laboratory experiments. *(T)*

**1020  (LS) Elements of Psychology. Cr. 3**

No credit after PSY 1010. Principles, theories and applications of psychological knowledge. *(T)*

**2080  Introduction to Drugs, Behavior, and Society. Cr. 3**

Introduction to drugs and their effects. Emphasis on psychoactive drugs, their effects, and the consequences of their use and misuse to the individual and society. *(Y)*

**2300  Psychology of Everyday Living. Cr. 4**

Prereq: PSY 1010 or 1020. Applications of psychological principles to everyday life. How research can be used to guide positive self-change in various contexts (e.g., stress, psychological problems, personality, persuasion, attitudes). *(T)*

**2400  Developmental Psychology. Cr. 4**


**2410  Health Psychology. Cr. 4**

Prereq: PSY 1010 or 1020. Clinical, social, developmental, and biopsychosociological theory and research on relationship of psychological and behavioral factors to physical health and well-being. Positive and negative health behaviors, stress and coping, social relations and social support, psychoneuroimmunology, patient-practitioner interaction and health utilization, management of chronic illness. *(Y)*

**2500  Psychology of Racism. Cr. 3**

Dynamics and attendant problems of racism directed toward African Americans. Lectures, class discussions, film presentations. *(Y)*

**2600  Psychology of Social Behavior. Cr. 4**

Prereq: PSY 1010 or 1020. Social behavior of the individual as influenced by the group. Particular attention given to social perception, motivation, and learning; attitudes and values; dynamics of social groups. *(T)*

**3010  Statistical Methods in Psychology. Cr. 4**

Prereq: PSY 1010 or 1020 or consent of instructor for non-psychology majors. Primarily for psychology majors. Principles and computational methods that apply to quantitative aspects of psychological procedure; elementary correlation theory and prediction, sampling problems, tests of hypotheses, elementary test theory, interpretation of results. *(T)*

**3040  Psychology of Perception: Fundamental Processes. Cr. 3**

Prereq: PSY 1010 or equiv. Fundamental theories, concepts, and empirical studies of basic sensory processes and the perception and organization of sensory phenomena. *(Y)*

**3050  Laboratory in Psychology of Perception. Cr. 2**

Prereq: PSY 1010 and 3010; prereq. or coreq: 3040. Laboratory investigations of basic perceptual phenomena and sensory processes involving vision, hearing, smell and touch. Use of different experimental paradigms including traditional psychophysical methods. This course will satisfy the Writing Intensive (WI) requirement when elected with coreq. PSY 5993. Material fee as indicated in the Schedule of Classes. *(F,W)*

**3060  Psychology of Learning and Memory: Fundamental Processes. Cr. 3**

Prereq: PSY 1010 or equiv. Fundamental theories, concepts, and empirical findings in field of learning. *(Y)*

**3070  Laboratory in Learning and Memory. Cr. 2**

Prereq: PSY 1010 and 3010; prereq. or coreq: 3060. Laboratory investigations of basic learning processes, including sensory and motor learning and complex learning processes. This course will satisfy the Writing Intensive (WI) requirement when elected with coreq. PSY 5993. Material fee as indicated in the Schedule of Classes. *(F,W)*

**3080  Cognitive Psychology: Fundamental Processes. (LIN 3080) Cr. 3**

Prereq: PSY 1010 or equiv. Fundamental theories, concepts, and empirical findings in study of human cognition. Topics include: thinking, problem solving, language comprehension and production, memory and attention. *(Y)*

**3090  Laboratory in Cognitive Psychology. Cr. 2**

Prereq: PSY 1010 and 3010; prereq. or coreq: 3080. Laboratory investigations of cognitive processes, including attention, memory, language processing and problem solving. This course will satisfy the Writing Intensive (WI) requirement when elected with coreq. PSY 5993. Material fee as indicated in the Schedule of Classes. *(F,W)*

**3120  Brain and Behavior. Cr. 3**

Prereq: PSY 1010 or 1020. No credit after PSY 5050. Introduction to the brain and its influence over behavior. Structure and function of the nervous system, neural communication, and neural mechanisms of higher nervous system functions and dysfunctions. Topics include: biological basis of sleep, sex, learning, memory, language, schizophrenia, and depression. *(T)*

**3200  Motivation, Feeling and Emotion. Cr. 3**

Prereq: PSY 1010 or 1020. Experimental findings in psychological and allied fields on topics of motivation, feeling, and emotion; evaluation of classical theories and an attempt to develop a theoretical approach based on factual knowledge. *(Y)*
3250 Psychology of Women. Cr. 3
Prereq: PSY 1010 or 1020. Scientific issues relating to the psychological understanding of women: gender identity, psychobiology, mental health, achievement motivation, role conflict, psychology of career choice. (T)

3270 Eating Disorders. (NFS 3270) Cr. 3
Prereq: PSY 1010 or 1020 or consent of instructor. Causes and treatments of anorexia nervosa, bulimia nervosa, binge eating, and overeating, from biological, psychological, and social perspectives. (W)

3310 Abnormal Psychology. Cr. 4
Prereq: PSY 1010 or 1020. Nature and causes of various forms of abnormal behavior, including schizophrenia, depression, and neurosis, viewed from psychological, biological, cultural, developmental, and historical perspectives. Diagnosis and treatment of pathological behavior. (T)

3350 Psychology of Personality. Cr. 3
Prereq: PSY 1010 or 1020. An examination of the major approaches to the study of personality. Current psychological findings in the field of personality and their implications for psychotherapy and assessment. (T)

3380 Human Sexuality. Cr. 3
Prereq: PSY 1010 or 1020. Biological, psychological and socio-cultural aspects of human sexuality. Topics include anatomy and development, sexual behavior, and cultural influences. (T)

3430 Infant Development. Cr. 3
Prereq: PSY 2400. Not open to psychology doctoral students. Development of the infant from conception through the toddler years. Physical, motor, perceptual, cognitive, language, social and emotional development. Current findings and their implications for parenting, programming, and care. (Y)

3460 Psychology of Adolescent Behavior and Development. Cr. 3
Prereq: PSY 1010 or 1020. Factors that promote the emergence of new relationships with parents, changes in peer relationships, increased independence, preparation for marriage and parenthood, and socioeconomic integration into the larger society. Biological and anthropological perspectives on sex roles. (Y)

3480 Parent-Child Interaction Across the Lifespan. Cr. 3
Prereq: PSY 2400. Theory and research on interactions between parents and children. Focus on normal development concerns, infancy through adulthood: discipline, sibling rivalry, sex-role identification, parental support. (Y)

3490 Psychology of Adult Development and Aging. Cr. 3
Prereq: PSY 1010, 2400. The adulthood and aging years from a developmental perspective, including: intelligence, memory, personality, and social behavior. (Y)

3500 Psychology and the Workplace. Cr. 3
Prereq: PSY 1010 or 1020. Psychology as applied to business and industry. Major areas of industrial psychology: selection, placement, and training procedures; human factors research. Industrial social psychology: motivational and organizational research and theory. (T)

3910 Research in Personality Psychology. Cr. 4
Prereq: PSY 3010. Advanced training in research methods relevant to personality psychology. (W)

4020 Research in Psychology. Cr. 3
Prereq: PSY 1010 or 1020. Primarily for students interested in future graduate studies in planning and evaluation of psychological research. Critical evaluation of scientific literature and the planning and development of psychological research proposals. The range of research methods and areas in psychology. (T)

4110 Psychological Testing and Measurement. Cr. 3
Prereq: PSY 1010 or 1020, and 3010. Principles of psychological measurement, development, administration, and analysis of psychological tests. Quantitative methods of assessing reliability and validity of psychological test scores. Interpretation and application of psychological testing in educational, clinical and industrial settings. (F,W)

4310 Psychological Disorders of Children. Cr. 3
Prereq: PSY 1010 or 1020. Points of view, methods of study and research findings regarding psychopathology in children. (I)

4320 Introduction to Clinical Psychology. Cr. 3
Prereq: PSY 1010 or 1020. An introduction to the methods, rationale, and empirical foundations of clinical psychology. Issues in the assessment and treatment of psychopathology. (Y)

4990 Directed Study and Research. Cr. 2-4 (Max. 9)
Prereq: psychology major; written consent of adviser and instructor. Library or laboratory study of an advanced problem in psychology under the guidance of a faculty member. (T)

4991 Honors Directed Study. Cr. 2-4 (Max. 9)
Prereq: written consent of instructor. Open only to honors majors in psychology. Honors library or laboratory study of advanced problem in psychology under guidance of a faculty member. (T)

4993 Field Study. Cr. 3 (Max. 6)
Prereq: two courses in psychology. Students must register for two semesters in order to receive credit. Offered for S and U grades only. Assignment to a hospital, clinic or other agency under faculty supervision. Term paper on observations made in the field. Agency placement contingent upon appropriate background and training in psychology. (F,W)

4994 Special Projects. Cr. 2-3 (Max. 9)
Prereq: two courses in psychology; written consent of instructor. Offered for S and U grades only. Departmental assignment to special projects such as tutoring introductory courses. (T)

4995 Special Topics in Psychology. Cr. 3 (Max. 6)
Prereq: PSY 1010 or 1020. Topics of current interest to be announced in Schedule of Classes. (Y)

4998 Senior Thesis Seminar. Cr. 3-6
Open only to majors in psychology. Pro-seminar leading to the design and execution of a senior honors thesis in psychology. (Y)

5020 Research Methods in Developmental Psychology. Cr. 3
Prereq: admission to master’s program in human development. Basic principles of research design in psychology: reliability and validity of measurement of psychological constructs, experimental design, control for confounding in correlation studies, multivariate analysis. (W)

5030 Evolutionary Psychology of the Emotions. (PSY 7030) Cr. 3
Undergrad. prereq: PSY 1010 or 1020; grad. prereq: graduate standing or consent of instructor. No credit for PSY 7020 after PSY 5020. Functional analysis of basic human emotions: their elicitors, affects, expressions, visceral changes, overt behaviors, neural bases, development, and normal and pathological variation. (W)

5050 Physiological Psychology. Cr. 3
Prereq: PSY 1010 or 1020. Physiological mechanisms underlying behavior and mental processes: sensory-motor mechanisms; integrative action of the nervous system; neuro-physiological mechanisms involved in emotional behavior; learning and memory; influences of hormones on behavior. (F,W)

5070 Bio-behavioral Bases of Drug Action. Cr. 3
Prereq: PSY 3120 or 5050 or equiv., or BIO 1020 or equiv. Physiological and behavioral bases of drug action, with emphasis on brain neu-
5080 Cellular Basis of Animal Behavior. (BIO 5080) Cr. 3
Relationship between behavior and neuroscience using a variety of animal models, each examined from the level of natural behavior progressively to the cellular level. Topics include: sensory systems, motor behavior, and learning.

5100 Applied Statistics in Psychology. Cr. 4
Prereq: PSY 3010 or equiv. or consent of instructor. General linear model, coding techniques, multiple correlation and regression, analysis of variance and covariance, planned and post hoc tests, use of statistical computer packages.

5490 The Aging Individual in Society. Cr. 3
Prereq: PSY 1010 or 1020. Biological, social, and psychological theories of aging; time-associated changes in behavior; personality changes in later life; social and personal adjustment and psychopathology in later life.

5540 Motivation in the World of Work. Cr. 3
Prereq: PSY 1010 or 1020. Relationships among motivation, satisfaction, and organizational behavior. Motivational theory and research; organizational influences on motivation and satisfaction; motivational intervention; survey and evaluation.

5680 Social Psychology of Personality. Cr. 3
Prereq: PSY 1010 or 1020. Consideration of social, structural and interpersonal determinants of personality formation, functioning and change; social learning, role theory, and cognitive approaches to personality in children and adults.

5700 (AFS 5700) The Psychology of African Americans. Cr. 4
Prereq: upper division standing. Methodological approaches to and theories of Black behavior and personality development. Topics include: race and pathology, life-span and psycho-sexual development, personality formation, social and environmental stress and adaptation.

5710 (PCS 5000) Dispute Resolution. (CRJ 5994) (P S 5890) Cr. 3
Overview of the processes and actors in the field of dispute resolution including negotiation, mediation, arbitration, and conciliation.

5993 (WI) Writing Intensive Course in Psychology. Cr. 0
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: PSY 3050, 3070, or 3090. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. Must be selected in conjunction with a course designated as a corequisite; see section listing in Schedule of Classes for corequisites available each term. Satisfies the University General Education Writing Intensive Course in the Major requirement.

6010 (ELE 6010) Family Centered Collaboration in Early Childhood Intervention. (OT 6150) (S W 6010) Cr. 3-4
Theories, concepts and practices of family centered intervention services for young children with special needs. Team-building and cross-disciplinary communication and collaboration with families.

6020 (P S 6010) Political Psychology. Cr. 3
Prereq: P S 1010 or equiv. Political attitudes and behavior of both ordinary citizens and political elites using theory and research that adopts a psychological perspective. Topics include: political socialization, ideological belief systems, role of mass media in shaping beliefs and attitudes, race and gender stereotypes and their psychological and political consequences, personality and the dynamics of political leadership.

6200 Development of Memory. Cr. 3
Prereq: PSY 3080 and 2400 or equiv.; and consent of instructor for undergraduates. Major theoretical models of memory development will be discussed and used to explore various aspects of the memory process from infancy to adulthood.
SCHOOL OF SOCIAL WORK

DEAN: Phyllis I. Vroom
Foreword

The School of Social Work at Wayne State University has as its mission the teaching of the knowledge, values, and skills of the social work profession. Graduates of the School should understand the needs of vulnerable populations and those for whom the quality of life is threatened. Through research, the faculty of the School contributes to the knowledge base of the social work profession, and the faculty and students serve the community by participating in professional societies, civic and community groups, and human service organizations.

The School of Social Work is an integral part of Wayne State University, an urban university in a culturally diverse, industrialized and technologically advanced, metropolitan area. The School is committed in its teaching, research, and service activities to address the problems of people living in this environment. Both in class and in the human service organizations that are the sites for field education, students learn how to provide effective social services and to influence social policies.

The School's activities are intended ultimately to alleviate the condition of those affected by poverty, racism, sexism, ageism, homophobia, unemployment, and those with emotional disturbances, or physical and/or developmental challenges, oppressive environmental conditions, and political oppression. Students learn methods of intervention with individuals, families, groups, communities, and organizations. Consistent with its emphasis on serving people in the Detroit metropolitan area, the School shares with the University a commitment to recruiting students of minority ethnic backgrounds.

Accreditation

The undergraduate program leading to the Bachelor of Social Work (BSW) degree and the graduate program leading to the Master of Social Work (MSW) degree are accredited by the Council on Social Work Education, the authorized accrediting body for social work education.

Programs

The School of Social Work offers opportunity for study at the undergraduate and graduate levels to prepare students for practice in the profession of social work. Its principal programs lead to the Bachelor of Social Work degree and the Master of Social Work degree.

The Bachelor of Social Work degree program prepares students for entry-level generalist practice. Course work in this program includes University-wide General Education Requirements as well as the core knowledge, values and skills — the professional foundation — for social work practice.

An individual course is also available at the freshman and sophomore levels and post-degree courses are available to those who have been awarded the bachelor's and master's degrees. The Master of Social Work degree program includes concentrations in interpersonal practice and community practice and social action. The School conducts special institutes and workshops for persons working in the fields of social work and social welfare.

Information Meetings: The School holds bi-weekly information meetings on its undergraduate and graduate programs. Potential applicants are encouraged to attend one of these meetings prior to making application. Information about the schedule of meetings may be obtained by calling the School's Office of Admissions and Student Services (313-577-4409).

Degree Programs

BACHELOR OF SOCIAL WORK

*MASTER OF SOCIAL WORK

*GRADUATE CERTIFICATE PROGRAM IN SOCIAL WORK PRACTICE WITH FAMILIES AND COUPLES

Directory, School

Dean: 201 Thompson Home; Telephone: 577-4400; Fax: 577-6555

Associate Dean: 240 Thompson Home; Telephone: 577-4401

Fax: 577-8770

General Information: 105 Thompson Home;

Telephone: 577-4409

Admissions and Student Services: 105 Thompson Home;

Telephone: 577-4409; Fax: 577-4266

Coordinator of the BSW Program:

236 Thompson Home; Telephone: 577-4433

Coordinator of the MSW Program:

237 Thompson Home; Telephone: 577-4408

Coordinator of Field Education:

144 Thompson Home; Telephone: 577-4479

Recruitment of Minority Students:

105 Thompson Home; Telephone: 577-4409

Student Organization: 21 Thompson Home; Telephone: 577-1639

National Association of Black Social Work Students:

21 Thompson Home; Telephone: 577-1639

Student Organization of Latino/a Social Workers:

21 Thompson Home; Telephone: 577-1639

Website: http://www.socialwork.wayne.edu/

Mailing address for all offices: School of Social Work, Wayne State University, Detroit, Michigan 48202

* For specific requirements, see the Wayne State University Graduate Bulletin.
Faculty and Administration

Dean: Phyllis I. Vroom
Interim Associate Dean: Ann Rosegrant Alvarez
Director of Admissions and Student Services: Janet Clerk-Joiner
Academic Services Officer: Carmen McCallum
MSW Academic Services Officer: Anwar Najor-Durack
Administrative Officer: Curtis Brahm
Assistant to Administrative Officer: Juanitta D. Hill
Assistants to the Dean: Mary Anne Cotton, Marilynn Knall

Professors
Creigs C. Beverly, Jerrold Brandell, Leon W. Chestang (Distinguished), David Moxley, Anna Santiago

Associate Professors
Ann Rosegrant Alvarez, Beverly Black, Ronald L. Jirovec, Anthony King, Durrenda Onolemhemhen, Melvyn C. Raider, Mavis M. Spencer, Eileen Trzcinski, Phyllis I. Vroom, Arlene Weisz

Assistant Professors
Margaret O. Brunhofer (clinical), Loren Hoffman (clinical), Debra Jozefowicz-Simbeni, Sheryl Pimlott-Kubiak, Isabel Rose, Poco D. Smith, Joanne Sobeck, James Tripp (clinical),

Lecturers
Cassandra Bowers, Lois J. Garriott, Sally Jo Large

Emeriti Professors
Sidney Dillick, Joseph P. Hourihan, Maryann Mahaffley, Betty Rusnack, Betty L. Welsh

Emeriti Associate Professors
Helen Francis, Theodore Goldberg, Carl Hartman, Alice E. Lamont, Edna P. Miller, Sandy G. Reid, Susan L. Whitelaw

BACHELOR OF SOCIAL WORK

The Bachelor of Social Work (BSW) degree program prepares for entry level generalist practice in social work and consists of four semesters of study in the junior and senior years. Approximately two thirds of the four semester curriculum is in professional courses in social work and about one third is in corequisite courses and electives. Field work is concurrent with class work except in the first semester of the junior year. It is required that the student enroll in the entire professional component of the curriculum during any one semester.

Usually the four-semester program of class and field work is a program of full-time study extending over two successive academic years, beginning in the fall semester. There is also a part-time, extended study option that allows students to earn the Bachelor of Social Work degree in up to eight semesters. The School also offers admission to the Bachelor of Social Work degree program each fall term to students who wish to attend classes at Macomb University Center, located on the Macomb Community College Center Campus.

Admission

Completed applications for admission to the program leading to the Bachelor of Social Work degree are given careful review in order to select those students best able to fulfill the requirements for professional education in social work. Applications may be submitted after the student has completed forty semester credits in course work or equivalent at the freshman and sophomore levels.

Each applicant must: (1) complete and forward to the Office of Admissions, Wayne State University, the form Application for Undergraduate Admission (for information on application fee, see ‘Student Fees’, in the General Information section of this Bulletin); (2) submit to the Office of Admissions, Wayne State University, directly from colleges and universities of recognized standing, official transcripts of all credits previously earned, whether in one or several educational institutions; (3) complete and forward to the School of Social Work, Office of Admissions and Student Services, the form Application for Admission, Bachelor of Social Work Degree Program; (4) have earned a minimum overall grade point average of 2.5; (5) show evidence to the Director of Admissions of the School of Social Work of suitability and fitness for the profession of social work and the ability to pursue successfully undergraduate professional education in social work.

NOTE: Students who have already attended Wayne State University should omit steps one and two above.

Applications are reviewed only when all supporting materials have been received. The priority deadline for submission of initial and all supporting materials for September admission is February 28. Students wishing to enroll in the Bachelor of Social Work degree full-time program offered at the Macomb University Center may apply for September admission, but enrollment is limited. Applications received after the closing date cannot be guaranteed processing. Applicants who begin their course of study at the Macomb University Center campus must complete their program at Macomb University Center campus. The applicant may be required to attend an individual or group interview as part of the application process. The responsibility for deciding whether a student shall or shall not be admitted rests with the School.

Once a student is admitted, admission to the BSW program is conditional until all requirements are completed. The student must present a transcript verifying completion of sixty semester credits, his or her grade point average, and prerequisites completed. The letter of admission does not constitute a contract; admission may be with-
drawn if a student fails to meet requirements following entry to the School.

Transfer of Undergraduate Credit: No more than sixty-four semester credits from two-year colleges may be used toward the BSW degree. A maximum of twelve Technical, Vocational, or Applied Practice credits (designated ‘TVA’) in the human service areas (for example, mental health, child care, gerontology, empathy training, human services and substance abuse) will count toward the degree. Any such transfer credits will be counted as general elective credit. Social work courses from programs not accredited by the Council on Social Work Education (CSWE) also will be transferred as ‘TVA’ general elective credit. See page 16 of this Bulletin for the University transfer policy.

Nondiscrimination Policies
The School is bound by and actively endorses University policies of nondiscrimination respecting all persons regardless of race, color, sex, national origin, religion, age, sexual orientation, marital status or physical or mental disability, and which expressly forbid sexual harassment or discrimination in hiring (see page 9 for these policies). The School prohibits discrimination against individuals because of political orientation. Copies of School and University nondiscrimination policies may be obtained in the Office of the Dean.

Work/Life Experience and Academic Credit
No academic credit for life experience or previous work experience will be awarded in the Bachelor of Social Work or Master of Social Work degree programs, in whole or in part, in lieu of the field practicum or of courses in professional foundation areas.

Student Leave of Absence
A student who is in good standing in the Bachelor of Social Work degree program may request a leave of absence from course and field work in the School for up to one year. In order to be considered in good standing, a BSW student must maintain grades of ‘C’ or better in classroom courses in the professional component, and marks of Satisfactory in field work. Upon his or her return from an approved leave of absence, the student’s plan of work will be based upon the time in the academic year when the leave of absence was granted. If a student leaves at or before mid-semester, then she or he will have to repeat course or field work. Specific information on the procedure for requesting a leave of absence is available in the Office of the Dean, or in the Office of Admissions and Student Services.

Withdrawal from the BSW and MSW Programs
A student who has been admitted to the Bachelor of Social Work degree program or the Master of Social Work degree program shall be considered to have withdrawn if the student is not enrolled in a course or field work during any semester of a planned program of study within the framework of the plan which has been approved. In order to terminate in good standing, students who withdraw from any degree program, for whatever reason, must formalize their withdrawal with the Director of Admissions and Student Services in the School of Social Work. A copy of the procedure for withdrawal may be obtained from the Office of Admissions and Student Services, School of Social Work.

Readmission
Students who had been enrolled in a planned program leading to the Bachelor of Social Work degree, who have withdrawn from the program and who wish to be considered for readmission to complete degree requirements, must follow regular procedures for admission to the School. Generally, students are required to complete two continuous terms of field work; readmitted students who had previously completed one term of field work in the senior year will be required to repeat this term, and may be required to enroll concurrently in a course or courses in social work practice methods or directed study in social work. Students who have withdrawn and wish to be readmitted may be required to obtain an assessment of their physical or mental health from a health professional approved or selected by the School.

Pre-Social Work Preparation
To qualify for admission to the Bachelor of Social Work program in the School of Social Work sixty semester credits (or its equivalent) at the freshman and sophomore levels must be completed. Such course work must be distributed according to one of the curricular patterns cited below. The General Education Requirements of the University must be met at the same time.

Many pre-social work courses also help satisfy the University General Education Requirements. These courses are indicated by parenthetical two-letter prefixes to their titles. For a definition of the General Education Requirements and a list of courses which satisfy each of them, see page 23.

The two patterns outlined below are available through the College of Liberal Arts and the Interdisciplinary Studies Program of the College of Urban, Labor and Metropolitan Affairs, designated Pattern ‘A’ and Pattern ‘B’, respectively. Students may also select elective credits at the freshman and sophomore levels from such professional schools as the School of Business Administration, the College of Education, the College of Nursing, and the School of Social Work.

Pattern A (College of Liberal Arts / College of Science)
Some of the following subject areas are prefixed with two-letter parthenetical codes. These codes indicate General Education categories which may be satisfied (entirely or in part) by the corresponding requirement in the pre-social work curriculum. For a definition of the General Education Requirements and a list of courses which satisfy each of them, see page 23.

A. Social Sciences: The following distribution of courses is required.
1. (SS) Anthropology—3-4 credits (Note: Physical Anthropology does not meet this requirement.)
2. (SS) Economics—4 credits (Survey of Economics, ECO 1000, recommended)
3. (HS) History—3 credits (Do not select HIS 1300)
4. (AI) Political Science—3-4 credits
5. (SS) Sociology—two courses

B. Natural Sciences: The following distribution of courses is required, including a laboratory course in one of the LS or PS areas designated below.
1. (LS) Biology—3-4 credits
2. Psychology—three courses. Field practicum courses do not meet this requirement. A course in developmental psychology is required. Introduction to Principles of Psychology will NOT satisfy the LS (laboratory) requirement.
3. (PS) One course (3-4 credits) to be selected from the following: Physics, Chemistry, Geology, Astronomy.

C. Humanities: The following distribution of courses is required.
1. (PL) Philosophy/Letters—3 credits
2. (VP) Humanities — 3 credits

D. English: The following distribution of courses is required.
1. (BC) Freshman Composition—4 credits
2. (IC) English Elective (2000 level or above)—3 credits

E. (OC) Basic Speech: 2-3 credits

F. Electives: Recommended: Select electives from General Education Requirements in Foreign Culture (FC), Computer Literacy (CL), Critical Thinking (CT), UGE 1000. Electives should be selected in conjunction with an appropriate Academic Services Officer.
Pattern B (College of Urban, Labor, and Metropolitan Affairs)

Titles of some of the following courses are prefixed with two-letter parenthetical codes. These codes indicate General Education categories which may be satisfied (entirely or in part) by the corresponding requirement in the pre-social work curriculum. For a definition of the General Education Requirements and a list of courses which satisfy each of them, see page 23.

A. Social Sciences: The following distribution of courses is required.
1. ISS 2710 — (SS) Selected Perspectives on Ethnicity: Cr. 4
2. ISS 2720 —Culture, Community, and Identity: Faces of Culture: Cr. 3
3. ISP 3480 — (SS) Theoretical and Practical Analysis of Work Organizations: Cr. 4
4. ISS 1510 or ISP 3420
   — (AI) American Political Development: Cr. 4
   — (AI) American Constitution and Judicial System: Cr. 4
5. Economics 1000— (SS) Survey of Economics: Cr. 4

B. Natural Sciences: The following distribution of courses is required.
1. IST 2010 —Health Concepts and Strategies: Cr. 3
2. IST 2020 — Changing Life on Earth: Cr. 3
3. IST 2310 — (LS) Living in the Environment: Cr. 4
4. IST 2420 — (PS) Atoms and Stars: Cr. 3
5. Two courses in Psychology (a course in developmental psychology is required): Cr. 6-8

C. Humanities: The following distribution of courses is required.
1. I H 2710 — (PL) Art and Aesthetics: Literature & Philosophy: Cr. 4
2. I H 2730 — (VP) Meaning in the Visual and Performing Arts: Cr. 3

D. English: The following distribution of courses is required.
1. ISP 1510 — (BC) Written Communication Skills: Cr. 4
2. English (IC) elective, 2000 level or above: Cr. 3

E. Basic Speech:
1. ISP 1560 — (OC) Dimensions of Oral Communication: Cr. 4

F. Recommended Electives: Select electives from General Education courses in Foreign Culture (FC), Computer Literacy (CL), Critical Thinking (CT), and UGE 1000. Electives should be selected in conjunction with an appropriate Academic Services Officer.

Degree Requirements

The Bachelor of Social Work degree requires satisfactory completion of a minimum of one hundred twenty credits. These consist of sixty credits in the freshman and sophomore years, including prerequisite courses (see Pre-Social Work Preparation, above) for admission to the professional component of the program and sixty credits in the junior and senior years, including forty-seven credits in field work and related courses and a minimum of thirteen credits in corequisite and elective courses (see below).

Grade Point Average: To be awarded a Bachelor of Social Work degree, the student must achieve a cumulative grade point average of 2.0, and a grade point average of 2.0 during the junior and senior years. A minimum of thirty credits must be earned in residence in the School of Social Work, and the student must be in residence during the final semester prior to graduation.

General Education Requirements: University-wide General Education Requirements apply to all undergraduate students seeking baccalaureate degrees from Wayne State University. These requirements include group requirements in basic disciplines, and competency requirements in written communication, mathematics, oral communication, computer literacy, and critical thinking (competency examinations in each of these areas are available). See the General Information section of this Bulletin, page 23; and consult an undergraduate adviser regarding the pre-Social Work pattern and General Education courses.

Suitability and Fitness for the Profession: Students must show suitability and fitness for the profession of social work. Any breach of the values and ethics of the profession embodied in the Code of Ethics established by the National Association of Social Workers may result in termination from the BSW or MSW program.

School of Social Work Honors Option

Social Work students of superior academic ability are eligible to participate in the University’s Honor Option, available in connection with specified social work courses during the junior and senior years. All Honors Option coursework is to be completed with a previously-approved social work professor, and will include work beyond normal course requirements. Students interested in the Honors Option must present a cumulative grade point average of 3.30 or better and develop an academic plan of work with the School of Social Work Academic Services Officer. Application forms for the Honors Option are available in the Office of Admissions and Student Services. The application form must be signed by the instructor and the Academic Services Officer and must be returned to the Office of Admissions and Student Services by the end of the second week of classes. It is the student’s responsibility to make sure that the instructor receives and turns in near the end of the semester an additional form that includes the grade for the student, in both the course and on the specific Honors-level work agreed upon. Students are required to complete a minimum of twelve credit hours under the Honors Option and maintain a cumulative grade point average of at least 3.30. The Honors Option is available in designated sections of the following courses: S W 3610, 3710, 4710, 4810, and 4997. Additional information is available from the Academic Services Officer.

Curricula

The undergraduate social work curriculum is structured to provide the knowledge, values and skills essential for entry level generalist social work practice. It is composed of five curricular areas: human behavior and the social environment, research, social work practice, social welfare policy and services, and field education. In addition, the following four themes will be found to intersect some or all curricular areas: values and ethics, social justice, oppression and discrimination, and populations at risk. The professional component of the curriculum is built upon a liberal arts foundation in the social and behavioral sciences, the humanities, English, mathematics, and the natural sciences. Students are required to enroll in selected courses in anthropology, economics, English, foreign culture, history, human biology, philosophy, political science, humanities, psychology, sociology, and speech.

Students in field education are placed in a wide variety of social service agencies and work with individuals, families, groups, organizations and communities. Emphasis is placed on working in urban areas with the poor and oppressed, persons of color, and other at-risk populations representing a variety of ethnic, racial and cultural groups. Field work stresses both amelioration and prevention of personal, interpersonal and social problems, as well as improvement of the human condition. Students are required to file an educational plan of work with the School of Social Work Academic Services Officer and to update the plan periodically.

REQUiRED PROFESSIONAL CONTENT

Junior Year

First Semester
S W 3010 — Social Work Practice Method 1: Cr. 3
S W 3110 — Diversity/Oppression and Social Justice 2
S W 3510 — Human Development and Dysfunction: Cr. 3
Second Semester
S W 3020 — Social Work Practice Method II: Cr. 3
S W 3610 — Organizational and Community Change: Cr. 3
S W 3810 — Research Meth., Data Analysis, & Pract. Eval. I: Cr. 3
S W 3998 — Field Practice in Social Work I: Cr. 5

Senior Year
First Semester
S W 4010 — Social Work Practice in the U. S.: Cr. 2
S W 4810 — Research Meth., Data Analysis, & Pract. Eval. II: Cr. 3
S W 4998 — Field Practice in Social Work II: Cr. 5

Second Semester
S W 4020 — Social Work Practice Method IV: Cr. 3
S W 4997 — (WI) Integrative Seminar in Social Work: Cr. 2
S W 4998 — Field Practice in Social Work II: Cr. 5

GENERAL EDUCATION, COREQUISITES, AND ELECTIVES
Corequisite: The corequisite for the program during the junior and senior years must be distributed as follows:
History 1300, 3 credits, to be taken no later than second semester of junior year.
Electives: Electives must be selected in consultation with the School of Social Work Academic Services Officer.

PART-TIME EXTENDED STUDY OPTION: Students interested in the part-time extended study option for the BSW program must file a plan of work with the School's Academic Services Officer. The extended study option may be elected only if approved by the Coordinator of the BSW program, or if the student is admitted to this option in the junior year.

SOCIAL WORK COURSES (S W)
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

1010 Introduction to Social Work and Social Welfare. Cr. 2-3
Survey of selected social welfare programs in the United States; history and development; focus on issues related to poverty and dependence. (Y)

3010 Social Work Practice Method I. Cr. 3
Prereq: junior standing; admission to the BSW program. First of four courses providing knowledge, skills and framework for entry level generalist practice; preparation for first field practicum experience. (F,W)

3020 Social Work Practice Method II. Cr. 3
Prereq: S W 3010; coreq: 3998. Continuation of four-course sequence. Introduction to a problem-solving guide for effecting situational change; emphases on assessment in the problem-solving process and on worker-client interactions during the middle and ending phases of service. Comparing and contrasting knowledge, skills and dynamics in work with individuals and groups. Analysis of student experience in practicum. (W,S)

3110 Diversity, Oppression and Social Justice. Cr. 2
Prereq: S W 3010, S W 3070. Diverse cultures, family structure, roles, immigration and assimilation experiences of marginalized groups; influence of dominant culture on these groups. (W)

3510 Human Development and Dysfunction. Cr. 3
Prereq: admission to the BSW program. Assessment of the phenomenon of social functioning with reference to the human life cycle and human diversity in the context of families, groups, neighborhoods, communities, organizations and society. (Y)

3610 Organizational and Community Change. Cr. 3
Prereq: junior standing; admission to BSW program. Theories of organizational and community change and social networks, neighborhoods, interorganizational and organizational behavior within a social work framework; study and simulation of change processes within human communities. (W,S)

Prereq: admission to the BSW program. History of social welfare in the United States. Basic concepts of social welfare. The profession of social work in historical perspective. Current trends and issues in social welfare and in the profession of social work. (Y)

3810 Research Methods, Data Analysis, and Practice Evaluation I. Cr. 3
Prereq: junior standing, admission to BSW program; coreq: S W 3020. Descriptive research methods for social work concepts and skills of problem formulation; research design; description and critical analysis of research studies; integration of descriptive statistics and data analysis within social work context. (W,S)

3998 Field Practice in Social Work I. Cr. 1-8
Coreq: one course in social work practice methods. Minimum of five credits must be taken over one semester (or Spring/Summer, for part-time students); open only to junior BSW students. Offered for S, M, and U grades only. The ratio of clock hours to credits is 46 to 1. Practicum of BSW professional component interrelated with courses in social work methods, human behavior and the social environment, social welfare organization and policy, and research. Field placements assigned by the Coordinator of Field Education. (T)

4010 Social Work Practice Method III. Cr. 3
Prereq: S W 3020; coreq: 3998. Continuation of four-course sequence. Utilization of systems and problem-solving approaches to plan for and apply appropriate social work interventions with emphasis on individuals, families and small groups. Analysis of student experience in practicum; use of simulation, videotapes, role-playing, and discussion. (Y)

4020 Social Work Practice Method IV. Cr. 3
Prereq: S W 4010; coreq: 3998. Continuation of four-course sequence. Emphasis on service delivery and change within organizations, neighborhoods, and communities. Learning experiences on functioning effectively in complex organizations and seeking organizational change. (F)

4710 Social Welfare in the United States: Current Programs. Cr. 2
Prereq: S W 3710; coreq: 3998. Description and analysis of major social welfare programs in the United States. (F)

4810 Research Methods, Data Analysis, and Practice Evaluation II. Cr. 3
Prereq: S W 3810; coreq: S W 3998. Continuation of S W 3810. Integration of inferential statistics and components of quantitative and qualitative designs appropriate for evaluating service delivery and related policy. (F)

4990 Directed Study. Cr. 1-4 (Max. 4)
Prereq: written consent of adviser and graduate officer. Individual direction in reading and research on selected topics. (T)

4997 (WI) Integrative Seminar in Social Work. Cr. 2
Prereq: S W 4010; coreq: S W 4998, 4020. Integration of classroom learning and field experiences to promote student’s understanding of
social work knowledge, skills and values. Assessment of knowledge and experiential bases for generalist social work practice. (W)

4998 Field Practice in Social Work II. Cr. 1-11
Coreq: one course per term in social work practice method. Open only to senior BSW students. Offered for S, M, and U grades only. The ratio of clock hours to credits is 46 to 1. Field practicum for senior-level students in the BSW program. Practicum of BSW professional component interrelated with courses in social work method, human behavior and the social environment, social welfare organization and policy, and research. Field placements assigned by the Coordinator of Field Education. (T)

5720 Social Services for the Aged. Cr. 2-3
Identification, description and analysis of the problems of the aged; development of social work services to meet their needs. (Y)

5755 Introduction to Child Welfare. Cr. 2
Issues related to children and youth in care, or those in need of protection from abusive and/or neglectful caretakers. Information on legal processes. (F)

Prereq: soc 5870. Open to PACT students; others by consent of instructor. Application of theory and intervention techniques in the family experience of maltreatment. (Y)

6010 (ELE 6010) Family Centered Collaboration in Early Childhood Intervention. (OT 6150) (PSY 6010) Cr. 3-4
Theories, concepts and practices of family centered intervention services for young children with special needs. Team-building and cross-disciplinary communication and collaboration with families. (F)

6500 Social Work and the Law. (ULM 6600) Cr. 2
Study of the relationship between law and social work practice. Emphasis on understanding the legal processes, the relationship and interdependence of law and social work practice and the knowledge and skill needed to help integrate law into social work practice. (W)

6510 Social Work and the Black Community. (AFS 6510) Cr. 2
An examination of the variety of points of view and trends within the black community as a background for social work assessment and intervention. (Y)

6535 Juvenile Delinquency: Social Functioning. Cr. 2
Causes of juvenile delinquency from an ecological perspective; assessment of delinquents and their environment as basis for social work intervention. (Y)

6540 Effects of Drugs and Alcohol on Social Functioning. Cr. 2
Prereq: senior or graduate standing. Types of substances most frequently abused, their effects on physiological, psychological and social functioning, and patterns of use among different age groups and populations. (T)

6550 Social Work Issues in the Workplace. Cr. 2
The nature and causes of occupational stress and other work-related behavior; existing and needed social work services in workplace, union programs, and community social agencies. (Y)

6560 Social Work and Sexual Orientation. Cr. 2
Prereq: senior or graduate standing. Theories of human behavior that relate to sexual orientation; impact of gay, lesbian, bisexual sexual orientation on social functioning; transference and counter-transference issues and homophobia, assessment of their impact on practice and policy. (Y)

6991 Special Topics in Social Work. Cr. 2-4
For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Topics of current interest to be announced in Schedule of Classes. (F,W)

ACADEMIC REGULATIONS and FINANCIAL AID

For complete information regarding academic rules and regulations of the University, students should consult the section of this Bulletin beginning on page 5. The following additions and amendments pertain to the School of Social Work.

Students in the School of Social Work are responsible for informing themselves of all rules, regulations and requirements, complying with all official procedures, and fulfilling all course and degree requirements in proper sequence with satisfactory scholarship. In case of doubt regarding any matter, the student should consult the School’s Academic Services Officer. The primary responsibility rests with the student. All students are urged to file a plan of work with the School’s Academic Services Officer, and to update the plan periodically. Electives should be selected in consultation with the School’s Academic Services Officer.

The faculty of the School of Social Work has the responsibility to require a student to withdraw at any time prior to receipt of the degree when, in its judgment, the student fails to do satisfactory work. Such decisions may be based on deficiencies in performance in class or field or in personal fitness for the profession. The faculty has adopted a set of criteria and procedures for academic termination, copies of which may be obtained in the Dean’s office.

Every effort is made to assist students whose work suffers as a result of conditions beyond their control such as personal illness, serious illness in the immediate family, or similar emergencies.

Attendance and Residency
Students are expected to attend all sessions of courses for which they are registered and to notify the instructors or their secretaries prior to the class session, if possible, when absence is necessary due to illness or similar emergency. Absence from the field practicum must be reported prior to the scheduled time, both to the agency and the faculty adviser. Consistent absence or tardiness in classes or the field practicum may have an adverse effect on the student’s grade and may result in termination from the BSW program.

A student must complete thirty semester credits in the School of Social Work and must be in residence during the final semester prior to graduation.

Maximum Hours
A student engaged in full-time or part-time study in the School of Social Work should plan a program in consultation with the Academic Services Officer, limiting it within a framework of required courses and electives in order to maintain a standard of scholarly attainment and academic excellence.

Field Education
All students enrolled in S W 3998 or 4998, Field Practice in Social Work I and II, are required to carry professional liability insurance as a condition of field placement.

The Field Education Manual contains a description of the field education program and the policies and procedures related to the program. Students are responsible for observing the procedures governing field work practice which are detailed in the manual. The manual is distributed to each student enrolled in S W 3998 and 4998.

Field Education Health Clearances Policy
The School may require students in field placement to obtain assessments of their physical or mental health from health or mental health professionals approved or selected by the School. The School of
Social Work reserves the right to refuse to place or direct students in field education if their physical or mental health status indicates such action is warranted in order to safeguard clients, agencies, the students themselves, other students, or the School.

Degree Application
Application for the degree must be filed in the University Records Office no later than the first day of classes for the semester in which the student expects to complete the requirements for the degree. The applicant must be recommended for the degree by the faculty. The applicant is requested and expected to attend the commencement at which the Bachelor of Social Work (BSW) degree is conferred.

Financial Aid
Scholarships, fellowships, and other forms of financial aid are available on a limited basis for those students who cannot undertake study without some financial assistance. The School expects students to utilize their own resources as much as possible to cover the costs of professional education. Financial aid through University resources should be considered as supplementary.

Applications for student aid, submitted on the appropriate form, are evaluated by the University Office of Scholarships and Financial Aid based on financial need as reflected in the information provided by the students, their families, or both. All requests for applications should be sent to the Office of Scholarships and Financial Aid, 3 West, Helen Newberry Joy Student Services Building. Information on Guaranteed Student Loans may be obtained by contacting the Office of Scholarships and Financial Aid.

When financial aid is necessary, the School of Social Work will cooperate with the University Office of Scholarships and Financial Aid (see page 20) to develop the best possible student aid plan from the various scholarships, stipends, grants, or loans available. Such financial assistance will not be assigned or awarded until the student has confirmed an intention to enroll after being notified of admission.

Some awards are administered directly by the Office of Admissions and Student Services, School of Social Work. Information and appropriate application forms may be obtained by contacting the Office of Admissions and Student Services, School of Social Work.

Loan Funds
The following funds offer loans to eligible social work students:

- Everett Beishlag Student Loan Fund, Charles Brink Loan Fund, Bette Kalichman Student Loan Fund, Elizabeth Livingston Student Loan Fund, Aaron Mendelson Memorial Trust Fund

Scholarships and Awards
For most financial aid opportunities at the School, application deadlines are: the first Monday in March for summer MSW students in advanced standing; the final Friday in April for BSW students admitted for the fall term.

Shawn Abraham Endowed Memorial Scholarship provides awards of varying amounts, dependent upon funds available. Full or part time undergraduate and graduate social work students are eligible. Recipients must be minority women (Detroit resident) with leadership skills, financial need and demonstrate scholastic achievement.

Edith N. Breher Scholarship is a manuscript competition. Students submit a seven to ten-page paper on social work values and practice to be judged by a panel of faculty and students. One award granted annually during the Winter term. The deadline is early February.

Arnette Burwell Endowed Scholarship provides awards of varying amounts, dependent upon funds available. Undergraduate and graduate students are eligible. Preference given to African-American females. The award is based on financial need, and scholastic achievement.

Fred and Freda Gentsch Scholarship of varying amounts is limited to full time undergraduate and graduate social work students who demonstrate outstanding academic achievement and financial need.

Alice Lamont Endowed Scholarship provides awards of varying amounts, dependent on funds available, to full- or part-time undergraduate or graduate students. Recipients must have a least a 2.5 grade point average at time of selection.

School of Social Work Scholarship of varying amounts is awarded to undergraduate and graduate students on the basis of scholastic achievement, character, leadership, and financial need. The application deadlines are March 5 for graduate students with advanced standing; and April 30 for all others.

School of Social Work Alumni Association Endowed Scholarship of varying amounts is awarded to undergraduate and graduate students who participate in activities that promote social work principles, have financial need and demonstrate scholastic achievement.

Maldo Talick Scholarship of varying amounts ($500-$1,000) is awarded to full-time undergraduate or graduate social work students who are in good standing with the School and have demonstrated need of financial assistance in order to continue their studies.

Shirley P. Thrasher & Cecilie Y. Dumbrigue Endowed Memorial Scholarship of varying amounts is awarded to full-time undergraduate or graduate social work students. Preference given to minority female students who demonstrate financial need and scholastic achievement.

Mary Turner Scholarship is an award of variable amount, made to full-time female students on the basis of academic achievement and financial need.

Beryl Zlatkin Winkelman Scholarship of varying amounts is awarded to full-time undergraduate or graduate students on the basis of scholastic achievement, character, leadership, and financial need.

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SCHOOL ACTIVITIES

Student Organization
The Student Organization is a vital component in the programs of the School of Social Work. In existence since 1949, it is the students’ voice in matters regarding school and profession. It is involved with School issues as well as broader educational and social issues. All students currently enrolled in undergraduate or graduate programs in the School of Social Work are members of the Student Organization.

Student Organization activities include: a student newspaper, weekly meetings, participation on curriculum and policy committees of the School, social and recreational activities, and assistance in attendance at relevant conferences. Other student activities include participation in the National Association of Social Workers.

National Association of Black Social Work Students
The School chapter of the National Association of Black Social Workers (NABSWS) involves itself in educational, research and community service activities on a year-round basis. NABSWS assists African American students in making the adjustment to the School of Social Work and provides students with supportive educational services. NABSWS also works closely with the Greater Detroit Association of Black Social Workers (GDABSW) in sponsoring forums, luncheons, conventions and fund raising events, as well as a schedule of social and leisure time activities.

Student Organization of Latino and Latina Social Workers (S.O.L.A.S.W.)
The Student Organization of Latino and Latina Social Workers (SOLASW) is an organization for students interested in Hispanic affairs. SOLASW works to increase the number of Hispanic students and faculty in the School, to integrate the Hispanic experience into the School’s program and academic settings, to link the Hispanic community needs with School resources, and to provide a Hispanic-related student forum in the University community. Membership in SOLASW is open to Hispanic and non-Hispanic students.

Coalition for Community Social Work
This group seeks to enhance the education and practice skills of its members while engaging in various community building, rebuilding and revitalization efforts. Its membership traditionally have collaborated to organize the annual WSU Take Back the Night event.

Special Interest Groups
Each year there are students with special interests who organize themselves into student activity groups. These have included the Arab/Chaldean student group, Center for Community Social Work, Gay/Lesbian/Bisexual student group, Jewish student group, and Christian student group.

Alumni Association
The Alumni Association serves to enhance School and professional identification. To this end the Association organizes promotional and interpretative activities, sponsors forums, institutes and workshops that encourage professional development, conducts special activities in support of the work of the School, and promotes fellowship among alumni, faculty and students through its social programs. It also provides scholarships and financial support to the School through fund raising efforts. Through the School’s newsletter, graduates are informed about one another and the School of Social Work.

Field Education
The following agencies and persons have worked with members of the Faculty in field instruction during the academic year 2002-03:

ACCESS: Hala Meram
ARC SERVICES OF MACOMB, INC.: Luanne DeGueisippe
ADOPTION ASSOCIATES, INC.: Jodi Griesman
ADULT WELL BEING SERVICES: Darlene Racz
ALLEN PARK PUBLIC SCHOOLS: Noreen Brohl
ALTERNATIVES FOR GIRLS: Patty Swift
AREA AGENCY ON AGING 1-B: Kathleen Sarb
BAY MEDICAL HOME CARE & HOSPICE: Kathy Fox
BEECHER SCHOOL DISTRICT: Linda Childress
BLACK UNITED FUND OF MICHIGAN, INC.: Brenda Rayford
BLUE WATER CENTER FOR INDEPENDENT LIVING: Cathy Johnson
BON SECOURS COTTAGE HEALTH SERVICES: Melissa Altmare, Christine Olezesko
BOYS AND GIRLS REPUBLIC: Thomas Mitchell
BOYSVILLE OF MICHIGAN: Rick Boone, Kevin Inman, Tiki Higgins
BRIGHTMOOR COMMUNITY CENTER: Peter Lisiecki
BULIMIA ANOREXIA NERVOSA ASSOCIATION: Mary Kaye Lucier
C.A.RE.: Brenda Szalka
CSS OF FLINT: Betty Rathfon
CSS OF OAKLAND CO. - PONTIAC: Peggy Akrigg
CSS OF ST. CLAIR CO.: Cam Gild
CSS OF WASHTENAW CO.: Lois Plantefaber
CASS COMMUNITY UNITED METHODIST CHURCH: Pam Hyles
CENTER FOR CHICANO-BORICUA STUDIES: Norma Lopez
CHELSEA COMMUNITY HOSPITAL: Douglas Dault, Teresa Leppanen
CHILD ABUSE & NEGLECT COUNCIL: Judith Hoeffler
CHILD’S PLACE (THE): Mary Poole
CHILDREN’S CENTER OF WAYNE CO.: Tanya Brown, Catherine Lentz, Terri Mial, Winifred Powers, Gwendolyn Pettway, Floyd Robinson, Karri Sellers, Jean Wend
CHILDREN’S HOME OF DETROIT: Andrea Bledsoe
CHILDREN’S HOSPITAL OF MICHIGAN: Dorothy Strong-Stokes
CHIPPEWA VALLEY SCHOOLS: Beth Gleason, Charlene McGunn
CITIZENS FOR BETTER CARE: Nida Donar
CITY OF DETROIT: Stephanie Hunter
CLARKSTON COMMUNITY SCHOOLS: Jim Butzine
CLARKSTON DIALYSIS FACILITY OF DAVITA: Leslie Thompson
COMMUNITY SERVICES OF OAKLAND: John Erich
CONGRESSMAN LEVIN: Heather Miller
CORNELL CENTER: Jane Diehl
CORRECTIONAL MEDICAL SERVICES: Laura Hogan
COVENANT HEALTH CARE - COOPER CAMPUS: Karen Gaffney
CROSSROADS FOR YOUTH: Carol Teachworth
DMC - CHILDREN’S HOSPITAL OF MICHIGAN: David Allasio, Danna Merritt, Vicki Meyrin

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DMC - REHABILITATION INSTITUTE: Stacie Blair, Patrick Donnellon
DMC - SINAI/GRACE HOSPITAL: Eugene Breman
DOT CARING CENTER: Laurie Tobin
DEARBORN HGTS. SCHOOL DISTRICT #7: Barbara Nickel
DEARBORN PUBLIC SCHOOLS: Lara Ruffing
DETROIT ACADEMY OF ARTS & SCIENCES: Arlene Hunter
DETROIT BOARD OF EDUCATION: Kathy Abler, Brenda Jones, Faustina Loper, Belinda Smoll, Kenneth Warren
DETROIT CENTRAL CITY MENTAL HEALTH, INC.: James Cass
DETROIT CITY COUNCIL: Sara Gleicher
DETROIT EDISON PUBLIC SCHOOL ACADEMY: Tracey Grose
DETROIT INSTITUTE FOR CHILDREN: Deborah Springfield
DEVELOPMENT CENTERS, INC.: Steven S. Nims
DON BOSCO HALL: Jo-Anne S. Woodard
DOWNRIVER COMMUNITY SERVICES, INC.: Patricia Dixon
EAST CHINA TOWNSHIP SCHOOL DISTRICT: Donna Galbraith
EASTER SEALS: Sherri Brandon
EASTWOOD COMMUNITY CLINIC: Don Healy
ELEONORE HUTZEL RECOVERY CENTER: Diane Gordon, Terry Everette
ELMHURST HOMES INC. - TARGET CITIES: Ed Kayden
ENNIS CENTER FOR CHILDREN: Ursula R. Ahart, Kami Longucki, Maratha Williams
EVANGELICAL HOME: Carrie Eriksen
EVERGREEN CHILDREN'S SERVICES: Patty Smith, Tom McCol-lum
FIA - ST. CLAIR COUNTY: Marilyn Bauman
FIA - WAYNE COUNTY: Veronica Madrigal, Stephanie Laughlin, Cassandra Bowers, Ellen Devine, Anna Genus, Sharon Pontillo
FAMILY INDEPENDENCE AGENCY: Patricia Smith
FAMILY SERVICE AND LEARNING CENTER: Sue Branfterner
FAMILY SERVICES INCORPORATED: Carl Herrell
FAMILY YOUTH INTERVENTIONS: Jolyne Baarck
FIRST STEP: Judith Ellis
FOREVER FAMILIES, INC.: Jean M. Stenzel
FRIEND OF THE COURT-3RD JUDICIAL CIRCUIT: Winston Brewster, Carol Dix, Angela Evans, Justine Hughes, David Manville, Thomas Reason, Ruth Usher
FRIENDSHIP HOUSE: Sharon A. Buttry
GARDEN CITY HOSPITAL: Margaret Sasena
GILDA'S CLUB METRO DETROIT: Joe Perry
GLOBAL ONE CONSULTING, INC.: Jeff Freiburger
GROSSE ILE TOWNSHIP SCHOOLS: Mary Gergel
GROSSE POINTE PUBLIC SCHOOLS: Tom Beach Patricia Curtin
GUIDANCE CENTER, THE: Jackie Conn-Carmickle, Jackie Gant, Carol Oleksiak, Carrie Reaume, Joe Rostekowski, Sue Yeghissian
GUIDANCE CENTER, THE: Ron Weems
HAVEN: Janis Wilson
HARBOR (THE): Sally Currie
HAVENWYCK HOSPITAL: Lisa Mychajluk, Karen Rogers
HEARTLAND HEALTH CARE CENTER: Dianne Bauer
HEARTLAND HOSPICE: John Mananto, Terry Swanson
HEGIRA PROGRAMS, INC.: Patsy Schwartz
HEMACARE: Gina Sikon
HENRY FORD BEHAVIORAL SERVICES: Nanette Colling, Dave Moore, Millie Murdock, Kathy Ransome
HENRY FORD HEALTH SYSTEMS - HOSPICE: Diana Tomezak
HENRY FORD HOME HEALTH CARE: Beth Newman
HENRY FORD HOSPITAL: Lisa Greathouse, Vershawn Finner, Michele Krest, Teri Sahn-Silver
HENRY FORD RETIREMENT VILLAGE: Leslee Crindwell
HIGHLAND PARK COMMUNITY JR/SR HIGH: LeVan Townsel
HIGHLAND PARK SCHOOL DISTRICT: Odevia Brown
HOSPICE INTEGRATED HEALTH SERVICES: Sharon Klein
HOSPICE OF MICHIGAN: Mary Foeg
HUNGER ACTION COALITION: Bridget Nelson
HURON VALLEY SCHOOLS: Karen K. Kerr
JARC: Klein Randee
JEWISH FAMILY SERVICE: Phyllis Schwartz
JEWISH FEDERATION APARTMENTS: Andrea Rosner Najer
JEWISH HOME AND AGING SERVICES: Shirley Jarcaig
JOB CORPS: Joe Szynkowski
KADIMA: Vivian Moore
KARMANOS CANCER INSTITUTE: Linda Diehl
KEPHERA COUNSELING SERVICES: Cathleen Taylor
LIVONIA PUBLIC SCHOOLS: Janice Gonzalez, Stephanie Smith
LULA BELLE STEWART CENTER: Charlla Allen
LUTHERAN CHILD & FAMILY SERVICES OF MICH: Kris Frederick, Roger Pickering, Christie Vaghy, Patricia Walsh
LUTHERAN SOCIAL SERVICES OF MICHIGAN: Renee Peters, Viola Wagner, George Winn
MACOMB FAMILY SERVICES: Laura Henderson
MACOMB INTERMEDIATE SCHOOLS: Nadine Lovell
MAXEY TRAINING SCHOOL: Charles Graham
MERCY NETWORK - CENTRAL: Marti Hurford
MERIDIAN PUBLIC SCHOOLS: John Wurdock
METRO EMERGENCY SERVICES: Cynthia Reynolds
MICHIGAN WOMEN'S FOUNDATION: Margaret Taiburt
MIDLAND-GLADWIN CMH SERVICES: Michael DuRussell
MIGRANT HEALTH PROMOTION: Sara Skinnen
MT. CLEMENS GENERAL HOSPITAL: Angel Marsiglio
NSO - NEIGHBORHOOD SERVICE ORGANIZATION: Ronald Riggs
NSO - NEIGHBORHOOD SERVICE ORGANIZATION: LaNeice Jones
NEW PASSAGES: Georgia Godin
NORTH EAST DROP-IN CENTER: David E. Gallagher
NORTHEAST GUIDANCE CENTER: Deana Fisher, Sherry McRill, Maria Putman, Angela Wathal
NORTHVILLE PSYCHIATRIC HOSPITAL: Dave Firlit, Lona Sweitzer
OLHSA - OAKLAND LIVINGSTON HUMAN SERV AG: Ethel Mertz
OAKLAND CO. CHILDREN'S VILLAGE: Theresa Kroczyk, Jody Overall
OAKLAND FAMILY SERVICES: Gail Babb, Barbara Campbell
OAKLAND FAMILY SERVICES: Rose Couzeure, Richard Silber
ORCHARDS CHILDREN’S SERVICES: Dawn Dwyer
P.O.W.E.R., INC.: Carol Burrell-Jackson
PARENTS AND CHILDREN TOGETHER - P.A.C.T.: Canna Hack, Amy Park, Christine Strukel
PONTIAC OSTEOPATHIC HOSPITAL: Fran Hiteshew
PONTIAC SCHOOLS - WISNER CENTER: Dr. Clyde Alexander
PORT HURON AREA SCHOOL DISTRICT: Dennis Bilina
PORT HURON HOSPITAL: James King
PROFESSIONAL, PREVENTIVE, RESTORATION: Odeather Allen Hill
PROMISE VILLAGE: HOME FOR CHILDREN: Dr. Tim Coldiron
PROVIDENCE CANCER INSTITUTE: Bonnie Patrick
QUALITY BEHAVIORAL HEALTH, INC.: Naveed V. Syed, Shealah Treece
RAPE COUNSELING CENTER: Althea M. Grant, Debbie Kaminskas
RESOURCE CENTER, THE: Sybil Atwood
ROSEVILLE COMMUNITY SCHOOLS: Liz Andrzejewski, Nicole Stacey
S.A.F.E. HOUSE: Elizabeth Barr, Lore Rogers
SAGINAW CO. CMH: Mary Beth Keenan-Reams
SAGINAW PUBLIC SCHOOLS: Alvin Schexwaildre, Gwenda Porterfield
SALVATION ARMY DENBY CENTER: Maureen Northrup
SALVATION ARMY, THE: Kay Merritt
SANCTUARY, THE (COMMONGROUND): Barbara Broesamle
SERVICES TO ENHANCE POTENTIAL: Patrick Houlihan, John Smith
SEXUAL ASSAULT CRISIS CENTRE OF ESSEX CO: Janet Brown
SHUMARD COUNSELING, PC: Barbara Shumard
SINAI-GRACE HOSPITAL: Rosemary Bell
SOUTHFIELD PUBLIC SCHOOLS: Pat Ballinger
SOUTHFIELD PUBLIC SCHOOLS - SOCIAL WORK: Karen Weiner
SOUTHGATE COMMUNITY SCHOOL DISTRICT: Beverly A. Baroni-Yeglic, Barbara Gniwek
SOUTHWEST COUNSELING AND DEVELOPMENT: Graciela Villalobos
SPaulding FOR CHILDREN: Ann Funchess, Kris Hennemann
SPECTRUM HUMAN SERVICES: Shirley Titus, Nancy Calley
ST. CLAIR CO. CMH: Sandra Kammer
ST. FRANCIS FAMILY SERVICES: Valicia T. Wiggins
ST. JOHN DETROIT RIVerview HOSPITAL: Sheliah Boone, Sari Abromovich, Judy Carter
ST. JOHN HEALTH SYSTEM HOME SERVICES: Victoria Parr
ST. JOHN HOSPITAL: Deborah Sloss
ST. JOHN MACOMB HOSPITAL CENTER: John Dobat, Maryann Woodard
ST. JOSEPH MERCY HOSPITAL: Bonnie Dalriggo, Kathleen Strader
ST. VINCENT/SARAH FISHER CENTER: Nancy Swain
STARFISH FAMILY SERVICES: Lyn Fox, Michelle Foy, Mary Ellen Rehse
STARR COMMONWEALTH: Steven Hebestreit, Linton Matthews
STARR VISTA CMO: Sherry Atkins
TAYLOR SCHOOL DISTRICT: Sandra Whaley
TODD-PHILLIPS DEVELOPMENT CENTER, INC.: Cheryl K. Seay
TRAINING & TREATMENT INNOVATIONS INC.: Juliane Stitz, Wendy Taggart
TROY SCHOOL DISTRICT: Sheryl Butzine
TURNING POINT INC.: Adrienne Gasperoni, Victoria Olekinski
UNIVERSITY PSYCHIATRIC CENTER: Elese Hairston
UNIVERSITY PUBLIC SCHOOL: Roxanne Clover
UTICA COMMUNITY SCHOOLS: Diane Redmond, Dorothy Sommers
UTICA COMMUNITY SCHOOLS: Bev Solomon
VA MEDICAL CENTER-DETROIT: Michayl Bethune, Crystal Lindsay, Jessie Martin-Ford, Buckley Reynolds
WALLED LAKE PUBLIC SCHOOLS: Glennis Dale, Patricia Magas
VANTAGE POINT - NCADD: Linda Woodward
VET CENTER READJUSTMENT COUSSELING SERVICES.: Corey Buckley
VISITING NURSE ASSOCIATION: Sue Pobanz
WASHTENAW CO. CMH: Deb Pippins
WATERFORD SCHOOL DISTRICT: Karen Gomez, Sara Gedda, Heather Wiley
WAYNE CENTER: Ron Hockins
WAYNE CO. DEPT. OF COMMUNITY JUSTICE: Jeriel Heard
WAYNE CO. JUVENILE DETENTION FACILITY: Debra Love
WAYNE COUNTY FAMILY CENTER - LSSM: Cynthia Haberman
WEST BLOOMFIELD SCHOOLS: Diana York
WESTWOOD COMMUNITY SCHOOL DISTRICT: Annette Wolski
WINDSOR REGIONAL CANCER CENTER: Sharron Mailloux
WINDSOR REGIONAL HOSPITAL: Christine Loftt
WOMEN’S JUSTICE CENTER: Karen Weatherford
YUMA, INC.: Yvonne Gillespie
YPSILANTI SCHOOL DISTRICT: Cynthia Wheeler
COLLEGE OF URBAN, LABOR and METROPOLITAN AFFAIRS

DEAN: Alma H. Young
Foreword

The College of Urban, Labor and Metropolitan Affairs was approved by the Board of Governors, effective Fall Term 1987. The primary mission of the college is to promote, stimulate and engage in pure and applied urban-oriented research and scholarship; to provide instructional programs (credit and non-credit curricula) in urban and labor affairs; and to develop and conduct programs of service to public and private institutions and to individuals, consistent with the overall mission of the University. The major context of the college’s work is the urban setting of metropolitan Detroit. Utilizing an interdisciplinary and interdepartmental approach, the college draws upon numerous departments in the University for its programs of study, research, and public service.

The College of Urban, Labor and Metropolitan Affairs includes the Center for Chicano-Boricua Studies; the Center for Peace and Conflict Studies; the Department of Geography and Urban Planning; the Department of Interdisciplinary Studies; the Labor Studies Center; the Douglas A. Fraser Center for Workplace Issues; the Center for Urban Studies; the Archives of Labor and Urban Affairs; the University Professors for Labor Studies; the Skillman Center for Children; and the Detroit Orientation Institute. The State Policy Center is also located in the College.

The College is responsible for the administration of the Bachelor of Arts in Labor Studies; the Bachelor of Interdisciplinary Studies; the Bachelor of Technical and Interdisciplinary Studies; graduate programs in Geography, Industrial Relations, and Urban Planning; the Master of Arts Certificate Program in Economic Development; the Graduate Certificate Program in Dispute Resolution; and the Co-Majors in Urban Studies and Chicano-Boricua Studies, and Peace and Conflict Studies. (For information on the Bachelor of Arts program in Geography, consult the College of Liberal Arts section of this bulletin.) For further information, contact the Office of Instructional Programs, College of Urban, Labor and Metropolitan Affairs, 1622 Faculty Administration Building; 577-6092.

Archives of Labor and Urban Affairs

Walter P. Reuther Library; 577-4024

The Archives of Labor and Urban Affairs, College of Urban, Labor and Metropolitan Affairs, was established in 1960 to collect, preserve and make available to qualified researchers records of the American labor movement and related social, economic and political reform groups, and twentieth-century urban America. The Archives has since become the official depository for the inactive files of the Conference of Industrial Organizations, the United Auto Workers, the American Federation of Teachers, The Newspaper Guild, the United Farm Workers, the American Federation of State, County and Municipal Employees, the Airline Pilots Association, the Association of Flight Attendants, the Industrial Workers of the World and many state and local labor organizations. Files have also been gathered from such groups as the Citizens’ Crusade Against Poverty, the American Civil Liberties Union, the National Association for the Advancement of Colored People, the United Community Services of Detroit, and New Detroit, Inc. Many individuals who played leading roles in labor and urban affairs have also placed their papers in the Archives. Correspondence, minutes, clippings, notes, newspapers and other written records, as well as films, tapes and photographs, are available for research. The Archives Newsletter is published periodically to describe recent acquisitions, research in progress and other topics.

University Archives

Walter P. Reuther Library; 577-4024

The University Archives, College of Urban, Labor and Metropolitan Affairs, was established in 1958 to collect, preserve, organize and make available to qualified researchers those University records which have research value. The Archives also collects the records of student organizations, professional associations and personal papers of faculty members who have contributed to the development of the University and higher education. The collections include manuscripts, photographs, publications, tape recordings, Board of Governors Proceedings, catalogs, schedules of classes and an extensive vertical file. The Archives currently holds over 500 newsletters and publications including Wayne Report, The South End, and less commonly known titles such as Crumbs and Ravelings, Gabriel’s Horn and Short Circuit.

Graduate Study in Industrial Relations

Office: 1262 Faculty Administration Building; 577-6092

This graduate program provides a curriculum leading to the M.A. degree in Industrial Relations (MAIR). MAIR is inter-college, as well as interdisciplinary, and is administered by the College of Urban, Labor and Metropolitan Affairs.

MAIR is jointly sponsored by the Departments of Economics and Psychology in the College of Liberal Arts, and Management in the School of Business Administration. Policy direction is provided by an Advisory Committee comprised of one representative of each sponsoring department.

MAIR is designed to provide professional preparation for a career in industrial relations with a focus on the substance and process of collective bargaining. Students will be prepared for industrial relations positions in government, business and union organizations, and MAIR intends to assist in the appropriate job placement of its graduates. MAIR will also provide knowledge and skills for persons who contemplate entering or who are already engaged in self-employment involving industrial relations, such as labor arbitration.

For further information, consult the Wayne State University Graduate Bulletin.

Degree and Certificate Programs

BACHELOR OF INTERDISCIPLINARY STUDIES

BACHELOR OF TECHNICAL AND INTERDISCIPLINARY STUDIES

BACHELOR OF ARTS with a major in labor studies (The Bachelor of Arts with a Major in Geography degree is awarded by the College of Liberal Arts; see page 261.)

POST-BACCALAUREATE CERTIFICATE in Nonprofit Sector Studies

*MASTER OF ARTS with a major in geography (in moratorium)

*MASTER OF ARTS in Dispute Resolution

*MASTER OF ARTS in Industrial Relations

*MASTER OF INTERDISCIPLINARY STUDIES

*MASTER OF URBAN PLANNING

*GRADUATE CERTIFICATE in ECONOMIC DEVELOPMENT

*GRADUATE CERTIFICATE in DISPUTE RESOLUTION

Co-Major Programs

Degrees with co-majors in the following areas are granted in the College of Liberal Arts and the College of Fine, Performing and Communication Arts in conjunction with the College of Urban, Labor and Metropolitan Affairs:

Chicano-Boricua Studies
Peace and Conflict Studies
Urban Studies

* For specific requirements, see the Wayne State University Graduate Bulletin.
Bachelor’s Degree Requirements

Credits
Candidates for the Bachelor of Arts degree must complete at least 120 credits. Certain curricula may require additional credits above this minimum. (See ‘Restrictions on Credit,’ below.)

Group Requirements
University-wide general education requirements and College-wide group requirements are designed to enhance students’ basic skills and the diversity of their intellectual background. These requirements assure minimal competence in those skills needed to succeed in college and professional life and provide a selective introduction to the increasingly broad range of academic disciplines represented at the University. They serve to emphasize the fundamental means and essential knowledge required for continuing self-education and intellectual growth.

Beginning with the Fall semester of 1987, all first-semester freshmen entering the College of Urban, Labor and Metropolitan Affairs and all Urban, Labor and Metropolitan Affairs students who transfer twelve or fewer credits into the College are required to satisfy both the University General Education Requirements (see page 23) and the College of Liberal Arts Group Requirements (see page 223). While these two sets of requirements substantially overlap and complement each other, the College Group Requirements, in several respects, supplement and modify the University program by requiring additional course work or restricting the use of certain courses to satisfy these requirements.

University Requirement In American Government for students enrolled prior to Fall Term 1987: See General University Information, page 27.

Proficiency in English and Mathematics
All undergraduate students who register for the first time at Wayne State University in Fall Semester 1983 or thereafter will be required to demonstrate proficiency in English and mathematics by the time they have earned sixty semester credits towards a bachelor’s degree. For full particulars, as well as the requirements applicable to registrants at the University prior to Fall 1983, see the General Information section of this Bulletin, page 24.

Major and Co-Major Requirements
A major or co-major is a program of concentrated study in a department or area within the College. Specific course requirements for majors are listed in this bulletin under each of the departments or areas of the College. Students are expected to select areas of concentration during their sophomore year and to declare in the subject or field of choice by the beginning of their junior year. Students must complete all courses in their majors with an overall average of ‘C’ (2.0).

Declaration of Major: To declare a major, the student should consult a departmental adviser well in advance of a formal declaration, since the acceptance of the declaration of major is subject to the advice of the department concerned. An up-to-date cumulative record of the student’s work should be obtained by the student from the Records Office and delivered to the department for its files. At the time of formal declaration, the student must obtain the signature of the department chairperson or the designated representative on the major declaration form and file the form in the Office of Instructional Programs, College of Urban, Labor and Metropolitan Affairs. All courses elected or changed by the student after the declaration of a major should be approved by the department adviser.

The major must include at least twenty credits in one subject, exclusive of the introductory courses and inclusive of some advanced work. No more than forty-six credits in the major subject (including introductory courses) may be counted toward a degree.

Within the above limits, each major program has specific requirements, which may be modified from time to time; therefore, it is the student’s responsibility to obtain the current requirements from the major department.

For interdepartmental or field majors, the rule regarding minimum credits required in one subject is waived.

For majors which require intensive study in a particular subject, more than forty-six credits are allowed.

The major completed is part of the degree designation on the diploma.

Restrictions on Credit
The College imposes the following restrictions on credit:

Maximum Credits in One Subject: Students may not count toward a degree more than forty-six credits in any one subject except for special curricula which specified additional courses in the curriculum outline.

Over-age Credits: Students attempting to complete majors after a protracted interruption in education, or those attending the University on a part-time basis over an extended period of time, may find that some early course work is out of date. In such cases, a department may require refresher work or a demonstration that the student is prepared for advanced courses in the department.

Restrictions on Transfer Credit — Two-Year Colleges: No more than sixty-four semester credits may be transferred from two-year colleges.

— Labor School: A maximum of ten hours of elective credit may be granted students who have been certified as having completed the Labor School curriculum, have a letter of recommendation from the Director, and have earned sixty credits with a grade point average of at least 2.0.

Restricted Courses: Degree credit is not given for elections in restricted courses which exceed the approved limit specified below.

Professional Courses
Students may elect a maximum of sixteen credits as cognate work from elected courses offered for degree credit by the several professional schools and colleges within the University. Eight of these credits may be elected with the approval of an academic adviser prior to the declaration of a major, and eight additional credits may be chosen with the approval of the major department. Where academic advisers have approved fewer than eight credits, the major department may approve credit up to the sixteen maximum credits allowed.

In curricula which specifically require professional courses in excess of the maximum, additional credits may be elected.

Specialized Courses
Unless a curriculum specifies otherwise, the maximum amount of degree credit which may be earned in certain specialized areas is limited as follows:

Dance (approved courses) — 16 credits maximum
Health — 8 credits maximum
Applied Music (including limitation stated in paragraph below) — 16 credits maximum
Physical Education (approved courses) — 4 credits maximum
A total of not more than four credits from the following list of courses may be counted toward a degree unless a curriculum specifically requires more extensive elections:
MUA 2800 -- University Bands: Cr. 1
MUA 2810 -- University Symphony Orchestra: Cr. 1
MUA 2820 -- Jazz Lab Band: Cr. 1
MUA 2830 -- Men's Glee Club: Cr. 1
MUA 2840 -- Choral Union: Cr. 1
MUA 2850 -- Concert Chorale: Cr. 1
MUA 2870 -- Women's Chorale: Cr. 1
MUA 2880 -- Chamber Music and Special Ensembles: Cr. 1
COM 2240 -- Forensics Practicum: Cr. 1-3

Repeated Subjects
It is understood that degree credit will not be granted for course work in which credit has already been granted. Since similar courses may have different names at different times and at different colleges, students are advised to make sure they do not offer repeated work as credit towards a degree.

Extra Credits
Extra credits are credits taken in excess of the normal load of eighteen credits. Students with 3.0 (or above) grade point averages may take more than eighteen credits when their proposed programs carry the written approval of the adviser and the Dean.

Advanced Courses
At least fifteen credits in courses numbered 3000 or above must be earned.

Combined Degrees: Courses taken in the first year of professional school may be applied toward the required fifteen credits in advanced courses.

Grade Point Average
All students are required to maintain an over-all grade point average of 'C' (2.0) for all degree work elected. See 'Grade Point Average' in the General Information section of this Bulletin, page 43.

Residence
To qualify for a baccalaureate degree in the College of Urban, Labor and Metropolitan Affairs, a minimum of thirty credits must be earned at Wayne State University. In addition, the last thirty credits applicable to the degree, not including credit by special examination, must be completed at the University. Credit by special examination may not be counted as residence credit, but such credit, if earned during a semester in which the student is registered, will not be considered an interruption of residence.

In special circumstances, senior residence may be interrupted with the approval of the student's major department and the approval of the Dean; however, when the candidate has fewer than the minimum thirty credits of residence at Wayne State University, no such exceptions are permitted.

Academic Regulations

For complete information regarding academic rules and regulations of the University, students should consult the General Information Section of this bulletin, beginning on page 5. The following additions and amendments apply to the College of Urban, Labor and Metropolitan Affairs.

Recommended High School Preparation
The College of Urban, Labor and Metropolitan Affairs strongly supports the University's recommendations concerning academic preparation. See page 15.

Attendance
Regularity in attendance and performance is necessary for success in college work. Attendance requirements will be announced by instructors at the beginning of each course.

Normal Program Load
The requirements for graduation are based upon an average program of fifteen credits per semester for eight semesters. A normal load should not exceed eighteen credits.

Because two hours of outside preparation are normally expected for each class hour, a fifteen credit program calls for approximately forty-five hours of class attendance and study per week. Students who undertake such a program should expect to give it their full time and energy. A few hours of employment a week may be safely added to this program by a capable student.

Retention of Records
Term papers and examinations shall either be returned to the student or retained by the instructor for a minimum of six months. Thereafter they may be destroyed. Instructors shall retain grade books for at least five years following the end of a term, and instructors who leave the institution shall give grade books for courses conducted during the past five years to their department chairperson. Five years after the end of a course, grade books may be returned to the instructor or destroyed by the department.

Study Abroad
For more than a quarter of a century, the University has provided its students with the opportunity to study abroad for a year in order to experience the cultural, academic, and social life of a foreign country. The College of Urban, Labor and Metropolitan Affairs has initiated an Undergraduate Student Exchange in Urban Affairs with the University of Salford, England. Students in good academic standing studying in the social sciences in the University, with the approval of the major department, may apply for one or two semesters of study in Salford. Prerequisites include: a minimum 3.0 g.p.a. or departmental nomination for the program; at least twelve credits earned towards a major; and satisfactory completion of at least fifty-four credits prior to departure. Participants will register as full-time students and pay tuition at Wayne State University and will receive University credit for Salford study. Interested students should contact the Office of the Dean, College of Urban, Labor and Metropolitan Affairs; telephone: 577-5071.

College of Urban, Labor and Metropolitan Affairs students are also eligible for other opportunities to study abroad that the University provides, including the Junior Year in Munich or Freiburg Program, the Wayne at Gordes Program, and the exchange program with the Jagiellonian University in Krakow, Poland. For these and other opportunities for foreign study, see "Study Abroad," page 231; and contact the University Advising Center, 577-2680.
Phi Beta Kappa
Phi Beta Kappa, the nation’s oldest honor society, was founded at the College of William and Mary in Virginia on December 5, 1776. The one hundred and fifty-sixth chapter of the society, Gamma of Michigan, was installed at Wayne State University on January 16, 1953 under a charter granted to the College of Liberal Arts by the United Chapters. Membership in the chapter is restricted to its charter members and to those members of the junior and senior classes of the College of Liberal Arts who have been elected to membership by the chapter and who have formally accepted election and participated in initiation ceremonies of this or some other cooperating chapter. In addition, all members of the University staff who have been elected to membership by other chapters of Phi Beta Kappa automatically become affiliated members of the local chapter for the duration of their stay at the University.

Students in the College of Urban, Labor and Metropolitan Affairs are also eligible for election if they meet the chapter’s requirements and are enrolled in a degree program transferred from the College of Liberal Arts at the time the College of Urban, Labor and Metropolitan Affairs was formed or afterwards.

Election to membership is restricted to students with at least two academic years of residence in the College of Liberal Arts, and is based not only on high scholarship and integrity, but also on breadth and depth of program. Students who wish further information are urged to consult with the secretary of the chapter concerning the requirements.

Graduation With Academic Distinction
Candidates eligible for the bachelor’s degree may receive a special citation placed on their diplomas under the following circumstances: The designations of Summa Cum Laude, Magna Cum Laude, and Cum Laude will be conferred upon graduating students whose cumulative grade point averages at Wayne State University fall within approximately the upper 5%, the next 5% and the next 10% or the senior class, respectively. The grade points used to identify the lower limits for each designation will be based upon the grade points attained by seniors in the College of Liberal Arts at these percentile levels during the preceding academic year. Only students who have earned sixty or more credits at Wayne State University are eligible to graduate with one of the above distinction citations.

Academic Probation
Low Grade Point Average: Student’s whose grade point average falls below 2.0 will be placed on academic probation. If serious grade point deficiencies are incurred, the students may be required to obtain permission from the Office of the Dean before registering. Such permission will be granted only after an interview during which some assurance is given that previous causes of failure have been ameliorated.

Lack of Progress: Students whose records reveal an excessive number of ‘Withdrawal,’ ‘Incomplete’ and ‘X’ marks and who, as a result, make little or no progress towards earning a degree, will be placed on academic probation. Such students may be required to confer with an academic adviser in the Undergraduate Office in order to register. Students on academic probation are encouraged to use support services of the University.

Restriction: While on academic probation, a student may not represent the College in student activities.

Removal of Academic Probation: Probation will be removed at the end of any term in which an over-all average of ‘C’ or better for all degree work taken in the College or earned as cognate credit is achieved.

Exclusion
Low Grade Point Average: Students on academic probation who incur serious deficiencies or fail to raise their grade point averages within a reasonable length of time, may be excluded from the College. Such an exclusion will be reviewed by the Probation Committee and the Dean upon the request of the student.

Lack of Progress: After having conferred with an academic adviser, students who make little or no progress towards a degree may be excluded from the College.

Readmission: After one year of exclusion, students may apply for readmission to the College. The decision to readmit will be based upon evidence which indicates that circumstances have changed during the year and that the probability of success has increased.

Cheating and Plagiarism: The principle of honesty is recognized as fundamental to a scholarly community. Students are expected to honor this principle and instructors are expected to take appropriate action when instances of academic dishonesty are discovered. An instructor, on discovering such an instance, may give a failing grade on the assignment or for the course. Serious acts of dishonesty may lead to suspension or exclusion.

The instructor has the responsibility of notifying the student of the alleged violation and the action being taken. Both the student and the instructor are entitled to academic due process in all such cases. Information on procedures is available in the Office of Instructional Programs.

Academic Advising
Freshmen and sophomores are encouraged to consult advisers each time they register. A staff of academic advisers is available in the University Advising Center. Students should confer with advisers on all questions concerning degree requirements, academic regulations, course elections, and programs of study. It is of primary importance that students talk with an adviser when they are having difficulties in their academic work. Students may choose either to see a specific adviser or any available adviser. Freshman and sophomore students in some of the special curricula are required to consult departmental advisers or advisers in other colleges.

Juniors and seniors are assigned to advisers in their major departments, and their course elections in the last two years are arranged in consultation with these departmental advisers.

Directory
Office of the Dean
Dean: Alma H. Young
Associate Dean: Robin Boyle
Business Manager: Pamela Day
3198 Faculty/Administration Building: 577-5071
Fax: 577-8800
Web: http://www.culma.wayne.edu

Office of Instructional Programs
Academic Services Officer: Linda Johnson
1282 Faculty/Administration Building: 577-6092
Fax: 577-9969

Archives of Labor and Urban Affairs
Interim Director: Michael Smith
231 Reuther Library: 577-4024
Fax: 577-4300

Center for Chicano-Boricua Studies
Interim Director: Katalina Berdy
3324 Faculty/Administration Building: 577-4378
Fax: 993-4073

Center for Peace and Conflict Studies
Director: Fred Pearson
2319 Faculty/Administration Building: 577-3468
Fax: 577-8269

College of Urban, Labor and Metropolitan Affairs 457
Center for Urban Studies
Director: Thomas Lyke Thompson
3043 Faculty/Administration Building: 577-2208
Fax: 577-1274
Dispute Resolution
Director: Loraleigh Keashly
Research Associate: William Warters
2319 Faculty/Administration Building: 577-3221
Fax: 577-8800
Geography and Urban Planning
Chairperson: Avis Vidal
225 State Hall: 577-2701
Fax: 577-0022
Industrial Relations
Director: Michael Belzer
1262 Faculty/Administration Building: 577-6092
Interdisciplinary Studies
Chairperson: Stuart Henry
Second Floor, Academic/Administrative Building, 5700 Cass Avenue; 577-6566
Labor Studies Center
Director: Hal Stack
3168 Faculty/Administration Building: 577-2191
Fax: 577-7726
Skillman Center for Children
Associate Director: Kristine Miranne
3198 Faculty/Administration Building: 577-5225
Fax: 577-8800
State Policy Center
Director: Peter Eisinger: 577-0635
3231 Faculty/Administration Building
Fax: 577-8800
Fraser Center for Workplace Issues
Director: William N. Cooke
Reuther Library: 577-2100
Fax: 577-7599

FACULTY OF URBAN AND LABOR STUDIES
Professors
Timothy M. Bates, Michael Belzer, Diane Brown, Peter Eisinger, Michael Goldfield, Philip P. Mason, Thomas L. Thompson

Associate Professors
David Fasenfest, Heidi Gottfried, Loraleigh Keashly

University Professors
Office: 253 Reuther Library: 577-5196
David Bonier, Douglas Fraser, Jordan Rossen, Ernest Savoie

Clarence B. Hilberry Endowed Chair of Urban Affairs
George C. Galster

Coleman A. Young Endowed Chair of Urban Affairs
Alma H. Young

CHICANO-BORICUA STUDIES
Office: 3326 Faculty Administration Building; 313-577-4378
Fax: 313-993-4073
Interim Director: Katalina Berdy
e-mail: ah3826@wayne.edu

Professors
Jorge L. Chinea, Jose Cuello

Coordinate Faculty
Jorgelina Corbatta

Counselor
Rodney Lopez

Purpose
The mission of the Center for Chicano-Boricua Studies (CBS) is to transform the University, and ultimately society, by providing equitable access to a quality university education to Latina/o students in the Detroit metropolitan area, and to enhance the environment of diversity on the campus. The Center accomplishes its mission through a four-part program in (1) student services; (2) research on Latina/o and Latin American issues; (3) internal University advocacy on Latina/o perspectives; and (4) outreach to the Latina/o and larger metropolitan communities. The research and teaching specializations of the faculty associated with the Center are Mexican history, Caribbean history, South American literature, United States Latina/o history and student learning strategies in higher education.

Student Academic Self-Empowerment Program
Chicano-Boricua Studies is a comprehensive student services center. CBS recruits Latina/o students from the metropolitan area into a two-year program based on a reality-check and academic self-empowerment model. The Program is designed to enhance the transition from high school to the university. It strengthens students' abilities to analyze the university environment and improves their preparation, planning and commitment for academic, professional and life achievement. The Program serves the needs and goals of students at various levels of accomplishment, from honor students to those who need extra support in university learning skills. The goal of the Program is to educate students for more than just a job, as conceptual individuals with an appreciation for the life of the mind, a wisdom of the world and a sense of ethical responsibility to society. Students have access to the Center’s resources through graduation and as alumni.

Admission: Requirements include submission of an official Wayne State Application for Undergraduate Admission, a minimum high school grade point average of 2.0, and minimum scores of 15 on the ACT Reading, English, and Composite sections. The average g.p.a. for incoming classes is usually higher than 2.75. High achievers are encouraged to join the Program.

Chicano-Boricua Studies Co-Major
The Chicano-Boricua Studies Co-Major Program is the equivalent of a Latina/o-Latin American Studies co-major. The multi-disciplinary program of study is designed to strengthen the career preparation of students in all majors who plan to work in national and international
multicultural environments with peoples of Latin American descent. Completion of the co-major is noted on the student’s transcript.

**Admission:** Students submit a Declaration of Major Form at the beginning of their junior year. (See page 455 for instructions on declaring a major.)

**Co-Major Requirements:** Completion of the following core courses (fifteen credits) and a minimum of eighteen credits from the list of elective courses. Appropriate courses may be substituted with the prior approval of the director.

**Required Core Courses (fifteen credits)**
- CBS 2100 -- Chicano Literature and Culture: Cr. 3
- CBS 2110 -- Puerto Rican Literature and Culture: Cr. 3
- CBS 2410 -- (FC) History of Mexico: Cr. 3
- CBS 2420 -- (FC) History of Puerto Rico and Cuba: Cr. 3
- CBS 2430 -- History of Latinos in the United States: Cr. 3

**Elective Courses (eighteen credits)**
- ANT 3110 -- Detroit Area Minorities: Cr. 3
- ANT 3220 -- The Inca and their Ancestors: Cr. 3
- ANT 3540 -- (FC) Cultures and Societies of Latin America: Cr. 3
- HIS 3995 -- Special Topics in History: Latin America: Cr. 3-4
- PS 5770 -- Government and Politics of Latin America: Cr. 4
- SPA 3630 -- Survey of Spanish American Literatures: Cr. 3
- SPA 5560 -- Spanish American Cultures and Their Traditions: Cr. 4
- SPA 6600 -- Spanish American Colonial Literature: Cr. 4
- SPA 6620 -- The Spanish American Novel II: Cr. 4
- SPA 6630 -- Spanish American Poetry: Cr. 4
- SPA 6670 -- Latin American Novel to 1900: Cr. 3

**Latino En Marcha Scholarship**
CBS administers an annual scholarship fund of $150,000, available to all of the approximately 600 Latina/o students at Wayne State University. Competition is for the academic year comprising the fall and winter semesters, with an additional competition for spring-summer. Minimum requirements for continuing Wayne State students are a 2.0 or above cumulative and last-semester g.p.a. (2.5 g.p.a. for entering first-year students).

**CHICANO-BORICUA STUDIES COURSES (CBS)**
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

**1410**  **Student Success Seminar. Cr. 1 (Max. 2)**
Prereq: consent of instructor. Open only to students in Chicano-Boricua program. Developing academic skills. (T)

**2100**  **Chicano Literature and Culture. (SPA 2400) Cr. 3**
Examination of Chicano literature. Themes and figures in a social and historical context. (B)

**2110**  **Puerto Rican Literature and Culture. (SPA 2500) Cr. 3**
Examination of Puerto Rican literature. Themes and figures in a social and historical context. (B)

**2410**  **(FC) History of Mexico. (HIS 2440) Cr. 3**
Historical development of Mexico and the Mexican people from the Spanish conquest to the present. Interaction of political, social, economic and cultural influences. (Y)

**2420**  **(FC) History of Puerto Rico and Cuba. Cr. 3**
Historical development of Puerto Rico and Cuba from the pre-Columbian period to the present. Interaction of political, social, economic and cultural influences. (I)

**2430**  **History of Latinos in the United States. (HIS 2430) Cr. 3**
Historical development of people of Hispanic descent in the United States from the early nineteenth century to the present. Cultural conflict, interaction of political, social, and economic forces. (Y)

**5560**  **(SPA 5560) Spanish American Cultures and their Traditions. Cr. 3**
Prereq: SPA 4610 or SPA 4620 or consent of instructor. Panorama of Latin American civilization and culture from the pre-Colombian period to the present. (Y)
The profession of urban planning takes major responsibility in the formation and management, cartography, urban and environmental planning, and community development, including land use, economic development, and environmental concerns.

5420 (GEG 6150) Internal Structure of the City. (GPH 6150) Cr. 4
Topics include: perception of the urban environment, spatial interaction and movement, models of structure and growth, migration to and within the city, ethnic and social areas, community extension, social processes and spatial form.

5520 (GEG 6240) Industrial Geography. (GPH 6240) Cr. 4
Theory and practice of the location of industry, analysis of selected manufacturing industries and selected industrial regions. The role of industrial location in urban and regional development.

5620 (GEG 6280) Marketing Geography. (GPH 6280) Cr. 4
Factors underlying retail location and shopping center development; evaluation of population, income levels, access and competition for location decisions; techniques applicable to sales potential/rent-up/sell-out estimates for retail units, housing developments, recreation facilities, office buildings; retail impact on urban land use; crime and commercial location; considerations for the elderly in commercial locations.

5700 (GEG 5700) Urban Canada. (GPH 5700) Cr. 4
Geographic introduction to Canada; emphasis on urban topics, including: the images of the Canadian city; evolution of the urban system; internal characteristics of cities; urban regions; specific cities; comparisons between cities in Canada and the United States.

5820 (ECO 5800) Urban and Regional Economics I. Cr. 4
Prereq: ECO 2010 or consent of instructor. Introduction to the economic foundations of urban problems; land use, housing, poverty, transportation, local public finance; regional industry mix, income, growth and development; the national system of cities and location of firms.
5999  Special Topics. Cr. 1-4 (Max. 8)  
Open only to graduate students.  

6120  Planning Studies and Methods. Cr. 4  
Economic base, population, and land use studies. Discussion of approaches used to solve selected community development problems.  

6210  Urban Design Elements. Cr. 3  
Introduction to the role of urban design and the concept of design criteria, design variables, and terminology.  

6310  Housing Development. Cr. 3  
Process of urban residential development; emphasis on housing market analysis, the construction industry, and residential finance.  

6320  Quantitative Techniques I. (GEG 6420) (GPH 6420) Cr. 4  
Statistical inference with emphasis on applications including control tendency, dispersion, hypothesis testing, correlation and regression.  

6350  Housing Policy and Programs. (ULM 6400) Cr. 3  
Governmental housing policies and programs at the Federal, state and local levels. Role of community-based organizations in housing activities.  

6400  Planning Issues. Cr. 2-4 (Max. 6)  
Studies of urban policy issues as they affect land use. Social and economic determinants of the physical composition of urban areas.  

6420  Quantitative Techniques II. Cr. 4  
Multivariate analysis with emphasis on applications, including matrix algebra, vector spaces, linear and non-linear models, principal components analysis, and programming approaches. Material fee as indicated in the Schedule of Classes.  

6455  Discrimination and Fair Housing. (U S 6455) (SOC 6455)  
(P S 6455) (AFS 6455) (ECO 6455) Cr. 3  
Prereq: senior or graduate standing. Multidisciplinary investigation into the nature, motivations, consequences, and legal/public policy implications of racial/ethnic discrimination in housing and related markets in U.S. metropolitan areas.  

6510  Urban and Regional Systems. (GEG 6510) (GPH 6510)  
Cr. 4  
Theory course dealing with concepts, processes and organization of urban and metropolitan regions, primarily focusing on the western world experience. Some comparative perspective derived from non-western experiences. Primary focus on system structure and change.  

6520  Transportation Policy and Planning. Cr. 4  
Introduction to the role of transportation in the planning process involving both regional and urban considerations.  

6550  (ULM 6210) Regional, State, and Urban Economic Development: Policy and Administration. (ECO 6650)  
(P S 6440) Cr. 3  
Prereq: graduate standing. Examination of regional, state, and local economic development theory, analysis, policy and administration.  

6650  Planning and Development Law. Cr. 3  

6670  (ULM 6150) Political Economy of the Urban Ghetto.  
(ECO 6810) (SOC 6850) Cr. 3  
Prereq: graduate standing; upper division undergraduates by consent of instructor. Examination of the economic, social and political transformation of U.S. cities; particular attention to the formation, dynamics, economics and social sub-systems of urban ghettos and their relationship to broader contexts.  

6680  (ULM 6680) Neighborhood Decline and Revitalization.  
Cr. 3  
Examination of reasons for neighborhood change and how plans and policies can be specified and implemented for neighborhood improvement.  

6850  Cost-Revenue Workshop. Cr. 3  
Offered for S and U grades only. No credit after UP 6050. Evaluation of the fiscal impacts of land use projects as they affect community tax revenue. Presentation of methods for assessing costs and revenues associated with residential and nonresidential growth.
INTERDISCIPLINARY STUDIES

Office: Second Floor, Academic/Administration Building, 5700 Cass Avenue, Detroit, MI 48202
Chairperson: Stuart D. Henry
Director for Student Services: Howard Finley
Assistant to the Director for Student Services: Linda L. Hulbert
Web: http://www.clf.wayne.edu/isp

Professors
A. Ronald Aronson, Jerry G. Bails (Emeritus), Stuart D. Henry, Julie T. Klein, Clifford L. Maier (Emeritus), Richard Raspa, Francis Shor, Roland Wright (Emeritus)

Associate Professors
Sandor Agocs (Emeritus), Eric A. Bockstael, David Bowen, Mary Lee Field, Gloria House (Emerita), Moti Nissan, Daphne W. Niri, Marsha Richmond, Roslyn Abt Schindler, Roland Wacker

Assistant Professors
Peter Friedlander, Andre Furtado, Theodore Kotila (Emeritus), William Lynch, Penelope Majeske, Lisa Maruca, James Michels

Lecturer
Thomas Moeller

Adjunct Professor
Guerin C. Montilus

Academic Advisers
Darrell Brockway, Pynthia Caffee, Roberta DeMeyer, Ruthie Flowers, Frank Koscieski, Derrick White

Degree Programs

BACHELOR OF INTERDISCIPLINARY STUDIES

BACHELOR OF TECHNICAL AND INTERDISCIPLINARY STUDIES

POST-BACCALAUREATE CERTIFICATE in Nonprofit Sector Studies

*MASTER OF INTERDISCIPLINARY STUDIES

The curricula leading to the bachelors’s degrees offered by the Department of Interdisciplinary Studies (DIS), College of Urban, Labor and Metropolitan Affairs, enables students either to concentrate on a single broad theme around which they assemble courses providing relevant areas of knowledge or to explore a diversity of interests through a more eclectic selection of courses which they synthesize and apply to a specific problem or thematic issue. Instruction is presented through interdisciplinary courses that seek to demonstrate how knowledge can be integrated across the disciplines to arrive at a more comprehensive understanding of issues than afforded by single disciplinary approaches. Courses are presented using the following four teaching formats:

* For specific requirements, see the Wayne State University Graduate Bulletin.

Evening courses provide after-work classroom opportunities for students to attend lectures and exchange ideas. They meet one evening a week from 6:00 until 10:00 p.m. at a variety of on campus and off campus locations.

Online courses provide opportunities to complete most of the requirements for a course at home from their computer via the Blackboard online learning platform and through e-mail. Students taking these courses are provided with deep coaching for their writing skills and engage in interactive learning through the instructor-guided discussion feature of Blackboard.

Conference courses are held on the main campus of the University and provide special opportunities to hear a variety of speakers, including authorities on issues of vital contemporary interest. Together, students discuss and debate issues of immediate and long-term significance. Most conferences meet throughout the day on Saturday and Sunday three times each semester.

Directed Studies courses are available as group directed attachments to existing courses, enabling the students to engage in focused research on a particular topic related to a course they are taking or as individualized studies courses designed in consultation with a supervising faculty member on a topic of mutual interest to the instructor and the student.

Most Interdisciplinary Studies students are able to complete two to three courses per semester, from any of the above instructional formats, and to fulfill the requirements for a Bachelor of Interdisciplinary Studies degree in three to five years or less, or for a Bachelor of Technical and Interdisciplinary Studies degree in two or three years.

Bachelor of Interdisciplinary Studies

This is a four-year interdisciplinary general studies degree program. The curriculum, organized to maximize related course sequences, focuses on historical, contemporary, and cross-cultural issues in the humanities, social sciences, natural sciences, and technology. Courses place special emphasis on critical thinking and analysis, writing ability, and research skills. In its concern with the development of humanistic and social consciousness, as well as science and technology literacy, this program draws upon the maturity and experience of the adult student.

Admission Requirements: Students must have earned a high school diploma or completed a General Equivalency Diploma (GED), and must be at least 21 years of age or have graduated from high school at least four years previously. Students who have completed an Associate of Applied Science degree are not restricted by these requirements. Admissions exceptions may be granted by the Department Chairperson.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Interdisciplinary Studies (BIS) degree must complete 120 credits including satisfying the University General Education Requirements (see page 27 for special requirements for students enrolled prior to Fall Term 1987.) Many requirements may be fulfilled by transfer credit earned at other accredited colleges and universities for courses in the fields of social science, humanities, and science/technology. Students should consult an adviser regarding the applicability of transfer credit to these general subject areas. Students may apply a maximum of sixty-four credits transferred from a four-year college to this degree; however, no more than eighty credits can be transferred from any combination of sources.

Credit Distribution Requirements

LOWER DIVISION: In this phase students typically earn eight to nine credits per semester (students may enroll for more of fewer credits per semester). Students need not pursue lower division course work in any specified order, but it is advisable to complete the required credits in one sequence before beginning another. Some courses have specified prerequisites, so it is important to consult with an adviser before confirming course selections. Course sequences are
defined as groups of three courses numbered 2010-2030, 2310-2330, or 2710-2730 within any Interdisciplinary Studies course.

ISP 2030 -- Interdisciplinary Studies Seminar: Cr. 3
Social Science Electives (ISS): Cr. 20
Humanities Electives (IH): Cr. 20
Science and Technology Electives (IST): Cr. 20

**UPPER DIVISION:** In this phase students typically earn ten to eleven credits per semester. These are Interdisciplinary Studies courses and are part of the residency requirement for which NO transfer credit is applicable.

ISP 3991 -- Interdisciplinary Core Seminar: Cr. 4
Advanced Interdisciplinary Studies Courses (ISP above 3000-level)): Cr. 14
Seminar or Essay/Project (ISP 4760/4860 or ISP 4991/4996): Cr. 8

**ELECTIVES (Thirty-one Credits):** Students may choose electives for career advancement, preparation for graduate school, or for personal satisfaction. Electives may be chosen from within the Interdisciplinary Studies course offerings, departmental course offerings, including Urban, Labor and Metropolitan Affairs courses, courses from other colleges of Wayne State University, or from other accredited institutions. Students must have a minimum of thirty-seven credits at the 3000-level or above in order to graduate.

No more than twenty-nine semester credits in course work taken through the School of Business Administration may be applied toward the BIS degree.

— **Capstone Program**

This program is designed to enable holders of two-year associate of applied science degrees to earn four-year degrees by providing two years of general education to supplement two years of specialized technology course work. The capstone program itself consists of sixty-four credits of interdisciplinary general education, training in fundamental skills (writing, oral communication, critical analysis, computation, and research), and opportunities for more advanced study in areas of special interest.

**Admission Requirements:** Applicants must have an associate of applied science degree from an accredited college.

**DEGREE REQUIREMENTS:** Candidates in this program leading to the Bachelor of Interdisciplinary Studies degree must complete 128 credits (of which must be earned as resident credit), with a maximum of sixty-four credits transferable from the associate degree level. Transfer credit may be allowed for requirements in social science, humanities, and science/technology, as well as for the Advanced Interdisciplinary Studies Courses, with the exception of ISP 3080, ISP 3991, and ISP 4992. The 128 credits must include satisfaction of the University General Education Requirements (see below and page 23) and the following distribution requirements.

**Capstone Program Credit Distribution Requirements**

**ASSOCIATE DEGREE TRANSFER CREDIT (Sixty-four Credits)**

**INTERDISCIPLINARY STUDIES (Forty Credits):**

ISP 3080 -- Topics in Interdisciplinary Studies: Cr. 4
ISP 1510 -- (BC) Written Communication Skills: Cr. 4
Social Science Electives (ISS): Cr. 7
Humanities Electives (IH): Cr. 7
Science and Technology Electives (IST): Cr. 7
Advanced Interdisciplinary Studies Courses (ISP above 3000-level): Cr. 7
ISP 4992 -- (WI) Senior Capstone Essay/Project: Cr. 4

**ELECTIVES (Twenty-four Credits):** Students must have a minimum of thirty-seven credits at the 3000-level or above in order to graduate. Courses may be chosen in a technical area, general studies, or a combination of these, depending on the student's particular interests.

**Bachelor of Technical and Interdisciplinary Studies**

This is a capstone program designed for graduates of two-year technical, vocational, and professional associate of applied science (or equivalent) degree programs. The curriculum provides the opportunity to enhance prior technical or professional training with advanced course work from other schools and colleges of Wayne State University.

**Admission Requirements:** Applicants to this program must have earned an associate of applied science degree or its equivalent from an accredited college.

**DEGREE REQUIREMENTS:** Candidates for this degree must complete 128 credits (of which forty must be Interdisciplinary Studies resident credit), with a maximum of sixty-four credits transferred from an associate degree program. The 128 credits must include satisfaction of the University General Education Requirements (see below and page 23) and the credit distribution requirements cited above under the Bachelor of Interdisciplinary Studies Capstone Program, with the following exception for the twenty-four elective credits: for the technical studies degree, this elective credit must be used to develop a coherent sequence of broad, cognate, or specialized courses reflective of the student's technical, vocational, or professional field, or in an applied area which enhances prior training. Students must have a minimum of thirty-seven credits at the 3000-level or above in order to graduate.

**Interdisciplinary Studies Courses Satisfying General Education Requirements**

The following courses have been approved to fulfill the University General Education Requirements:

**COMPETENCY REQUIREMENTS**

Basic Composition: ISP 1510
Intermediate Composition: ISP 3510, 4991, IH 2010
Writing-Intensive Course: ISP 4860, 4992, 4996
Oral Communication: ISP 1560
Computer Literacy: IST 2710
Critical Thinking: ISP 3260

**GROUP REQUIREMENTS**

Life Science: IST 2310
Physical Science: IST 2420
Historical Studies: ISP 3160, IH 3810
Social Science: ISP 3480, ISS 2710
American Society/Institutions: ISP 3420, ISS 1510
Foreign Culture: ISP 3600, 3610, 3620
Visual and Performing Arts: IH 2730, 3730
Philosophy and Letters: IH 2710, 3710

**NONPROFIT SECTOR STUDIES PROGRAM**

**POST-BACCALAUREATE CERTIFICATE in Nonprofit Sector Studies**

The Nonprofit Sector Studies (NPS) Program offers courses for persons who plan to work as professionals in youth, health, human services, and other nonprofit organization settings. The Program offers the Minor in Nonprofit Sector Studies for the undergraduate student, and the Post-Baccalaureate Certificate for persons who may already

**Academic Programs**

**MINOR in Nonprofit Sector Studies**

**REGIONAL STUDIES**

**Foundations of Nonprofit Sector Studies**

**The Nonprofit Sector Studies (NPS) Program offers courses for persons who plan to work as professionals in youth, health, human services, and other nonprofit organization settings. The Program offers the Minor in Nonprofit Sector Studies for the undergraduate student, and the Post-Baccalaureate Certificate for persons who may already**
work in nonprofit organizations and have already earned a bachelor’s degree. Additional possibilities exist for students with a qualifying bachelor’s degree to obtain a Master’s in Interdisciplinary Studies with a focus on nonprofit sector studies. For details of this program consult with the MIS graduate program chair. The objectives of the Program are: (1) to provide a quality learning experience for nonprofit organization professionals in a scholarly environment, and (2) to support professionalization opportunities for nonprofit organization leaders.

THE MINOR in Nonprofit Sector Studies is designed to complement a student’s matriculation in a major field of study. Requirements for admission are a successful completion of the English Proficiency Examination and junior standing. A minimum of nineteen credits, completed with a minimum grade point average of 2.0, is required for completion of the Minor. Required courses for the Minor include: NPS 3000, 3500, 4000, and 4500, plus one elective selected from an approved list of courses drawn from allied fields.

THE POST-BACCALAUREATE CERTIFICATE in Nonprofit Sector Studies is designed for persons who wish to receive certification from faculty and experts in nonprofit management. A bachelor’s degree from an accredited four-year institution is required for admission. The Certificate candidate must complete twenty-four credits in the program with a minimum grade point average of 2.5. Required courses for the Post-Baccalaureate Certificate include: NPS 3000, 3500, 4000, 4300, and 4500, plus one elective selected from an approved list of courses drawn from allied fields.

Academic Regulations

Fees: Students in the Department of Interdisciplinary Studies pay tuition according to the regular University fee schedule (see page 18).

Registration: Interdisciplinary Studies academic advisers are available on campus during normal office hours and have established dates and times when they are at WSU extension centers to see current and new students, either for advising or registration. Refer to the Interdisciplinary Studies Course Schedule and Catalog for the current semester for more information. Students can participate in Web registration, telephone registration, register at WSU extension centers, or at the Interdisciplinary Studies office in the Wayne State campus.

Orientation: During their first two semesters, new students are required to participate in student orientation conferences and/or seminars where the baccalaureate degree program is fully explained through lecture presentations, group discussions, films, and slides.

Residency Requirement: An applicant for the degree of Bachelor of Interdisciplinary Studies or Bachelor of Technical and Interdisciplinary Studies must complete at least forty credits in Interdisciplinary Studies Program courses, distributed according to specific degree requirements.

Transfer of Credit: Credit for courses taken at community colleges and other accredited institutions may be transferred as applicable to the bachelor’s degree programs, provided that (1) the student has been admitted to the program, and (2) the grades earned for courses have been satisfactory (‘C’ or better). A maximum of sixty-four semester credits or ninety-six quarter credits may be transferred from a community college. A maximum of eighty credits may be transferred from a four-year college or a combination of two-year and four-year colleges. Elective credit will be granted for successful completion of CLEP tests.

Probation: A student whose work falls below a 2.0 grade point average will be placed on probation and an academic hold will be placed on his or her academic record. The student will then be required to obtain permission from an ISP academic adviser before registering again. Such permission will be granted only after an interview.

Counseling: The academic advisors in the Division of Student Services are available to provide a broad range of information and assistance concerning University programs and various academic regulations. Students in Interdisciplinary Studies arrange programs of study and register for their courses with a counselor each semester.

Financial Aid and Honors

Financial assistance is available on a limited basis to help students meet educational expenses. Interested students should contact the ISP office, or the University Office of Scholarships and Financial Aid, 3 West, Helen Newberry Joy Student Services Building.

Interdisciplinary Studies Women’s Scholarship: An award of partial tuition, open to any woman enrolled in degree programs in the Department of Interdisciplinary Studies with demonstrated financial need and a minimum 3.0 g.p.a. who is registered for at least seven credits in the semester of the award. Application deadline for each semester is the first day of final registration for that semester.

Honors: The Dean’s List publishes the names of students who obtain high academic achievement (those registered for four to eight credits who obtain a 4.00 g.p.a., and those registered for nine credits or more who obtain a 3.7 g.p.a.). Students with ‘I’ or ‘X’ grades are not eligible.

Honor Society: Interdisciplinary Studies students who have achieved a 3.2 g.p.a. are eligible to join the National Honor Society for adult students, Alpha Sigma Lambda.

COURSES OF INSTRUCTION

The following courses, numbered 0900-6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 481.

INTERDISCIPLINARY STUDIES PROGRAM COURSES (ISP)

0510 Developmental Reading and Writing. Cr. 3
No degree credit. Offered for S and U grades only. Preliminary course designed to improve reading and writing skills of underprepared students. Emphasis on reading comprehension, grammar, spelling, vocabulary, and paragraph development and organization.

1510 (BC) Written Communication Skills. Cr. 4 (Max. 8)
Must be taken in first 36 credits in Interdisciplinary Studies Program. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). General language awareness and written communication skills emphasized; students learn to write essays for academic success.

1560 (OC) Dimensions of Oral Communication. Cr. 4 (Max. 8)
Students explore and give order to elements of their world, learn to establish a relationship with an audience, and develop skills in communicating ideas to have an effect on others.

1600 Web.edu: How Internet Courses Work. Cr. 1
Introduction to academic work over the Internet. Look and feel of Internet courses from perspective of participant. New freedoms, techniques, responsibilities, learning styles.

2030 Interdisciplinary Studies Seminar. Cr. 3
Required of all entering B.I.S. students. Interdisciplinary problem solving, critical thinking, writing to converse in a discipline and across disciplines, critical thinking in quantitative problem solving, multiple readings of academic discourse. Three-faceted inquiry for working adult returning students: nature, philosophy and history of interdisciplinary and general studies; writing to learn (writing as a mode of learning and thinking) as part of writing across the curriculum; assessment of educational objectives by developing a student portfolio.
3030  Foundations of Knowledge Conference I. Cr. 3
Prereq: upper division standing. Semester-long course with periodic weekend sessions. Selected topics, in weekend conference format, similar or related to material handout in Foundations of Knowledge Seminar courses. Dates and specific topics announced for each Fall semester. (F)

3040  Foundations of Knowledge: Directed Study. Cr. 4 (Max. 12)
Prereq: upper division standing or consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Appropriate only when other Foundations of Knowledge courses are unavailable. Materials for the course are drawn from topics developed for the Foundations of Knowledge seminars and conferences. (T)

3060  Foundations of Knowledge Seminar: Cross-Cultural Perspectives. Cr. 4
Prereq: upper division standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Cross-cultural, pluralistic approach to knowledge as a work of civilizations across space and time; critical analysis of philosophical, social, and scientific theories as the result of dynamic interaction of the human mind and nature in a varied, pluralistic world. (F,W)

3080  Topics in Interdisciplinary Studies. Cr. 4
Required of all entering B.I.S. Capstone and B.T.I.S. students. Conference; examples of interdisciplinary research demonstrating the advantages, complexities, and constraints of this approach, compared with traditional single disciplinary methods. (Y)

3130  Foundations of Knowledge Conference II. Cr. 3
Prereq: upper division standing. Semester-long course with periodic weekend sessions. Selected topics, in weekend conference format, on issues similar or related to material handled in Foundations of Knowledge Seminar courses. Dates and specific topics announced for each Winter semester. (W)

3160  (HS) World War I as a Turning Point: Historical Perspectives. Cr. 4
Prereq: upper division standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Examination of a critical period in twentieth century history; comparative analysis of human experience as shaped by historical forces: political, social, economic, intellectual, and technological. Workshop course. (T)

3260  (CT) Methods of Search and Critical Thinking. Cr. 4
Prereq: upper division standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Analysis of various techniques for generating and validating knowledge in diverse disciplines; assessment of structure and strengths of inductive and deductive forms of argument. (Y)

3340  Advanced Directed Study: Science and Technology. Cr. 2-4 (Max. 12)
Prereq: upper division standing and consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Directed study supervised by a faculty member. Appropriate if no courses of instruction are available covering desired science and technology topic area. Elective. (T)

3360  Science and Technology Advanced Studies Seminar. Cr. 4 (Max. 12)
Prereq: upper division standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Current and historical studies of issues and topics from interdisciplinary science and technology. Topics announced each semester. Elective. (T)

3420  (AI) The American Constitution and the Judicial System. Cr. 4
Prereq: ISP 1510 or equiv. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Interdisciplinary approach to phases of United States constitutional development and the relationship of the courts to American government in historical and contemporary contexts. (Y)

3440  Advanced Directed Study: Social Science. Cr. 2-4 (Max. 12)
Prereq: upper division standing and consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Advanced directed study supervised by a faculty member. Appropriate if no courses are available covering desired social science topic area. Elective. (T)

3460  Social Science Advanced Studies Seminar. Cr. 4 (Max.12)
Prereq: upper division standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Area and period studies, problems and themes in interdisciplinary social science. Topics announced each semester. Elective. (T)

3480  (SS) Theoretical and Practical Analysis of Work Organizations. Cr. 4
Prereq: ISP 1510 or equiv.; upper division standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Current social science theoretical perspectives and their practical application to study of the work place. (Y)

3510  (IC) Intermediate Reading and Writing. Cr. 4
Prereq: ISP 1510 or equiv. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Continuation of GIS 1510. Analytical reading, writing, and writing revision in the humanities, sciences and social sciences. Emphasis on research. (T)

3540  Advanced Directed Study: Humanities. Cr. 2-4 (Max. 12)
Prereq: upper division standing and consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Directed study supervised by a faculty member. Appropriate if no courses of instruction are available covering desired humanities topic area. Elective. (T)

3600  (FC) Interdisciplinary Perspectives on Foreign Culture: The Arabs. Cr. 3
Prereq: upper division standing or consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Humanistic aspects, history, socio-cultural institutions of Arab cultures; theory and methods, comparativist perspectives. (F)

3610  (FC) Interdisciplinary Perspectives on Foreign Culture: The Africans. (AFS 3610) Cr. 4
Prereq: upper division standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Humanistic aspects, history, socio-cultural institutions of African cultures; theory, methods, comparativist perspectives. (Y)

3620  (FC) Interdisciplinary Perspectives on Foreign Culture: The Chinese. Cr. 3
Prereq: upper division standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Humanistic aspects, history, and socio-cultural institutions of Chinese culture: theory, methods, comparativist perspectives. (W)

3840  General Interdisciplinary Directed Study. Cr. 2-4 (Max. 12)
Prereq: upper division standing and prior consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Elective. Directed study supervised by a faculty member. Appropriate if no courses of instruction are available covering desired interdisciplinary topic area. (I)

3860  Interdisciplinary/Integrated Advanced Studies Seminar. Cr. 4-12
Prereq: upper division standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Elective. (I)
Explorations of the theoretical implications of the basic course sequences in social science, science and technology, and urban humanities. Topics and dates announced each semester.  (I)

4996  (WI) Senior Essay Seminar II. Cr. 4
Prereq: upper division standing and consent of instructor. Study opportunities in a non-traditional setting. Students learn by experience under the supervision of a professional. Practice is integrated with appropriate research and methods, and evaluation is based on evidence of growth and mastery of specific skills. The ratio of clock hours to credits is 15 to 1.  (T)

4760  Senior Seminar I. Cr. 4
Prereq: upper division standing; ISP 2030 or 3080; ISP 3991 for all DIS students admitted Fall 1996 or after. A seminar on topics determined by the upper division faculty is designed to draw together and reassess fundamental values and themes underlying the DIS curriculum. Core readings and a substantial paper are assigned.  (T)

4770  Travel Study: Upper Division. Cr. 6-8 (Grad. Cr. 6; Undergrad. Cr. 8)
Prereq: written consent of adviser. American Southwest approved for 6 credits; West Africa approved for 8 credits. Interdisciplinary examination of cultural, political, social and/or scientific/technological aspects of the destination country by accompanying instructors or guest lecturers. Assignments, papers, and projects appropriate to upper division students.  (S)

4860  (WI) Senior Seminar II. Cr. 4
Prereq: upper division standing; ISP 2030 or 3080; ISP 3510 or equiv.; ISP 3991 for all students admitted Fall 1996 or thereafter. Lecture and consultation course; students complete a major research paper. Semester-long process of synthesis and analysis, writing, oral presentation and consultation with the instructor.  (T)

4991  (IC) Senior Essay Seminar I. Cr. 4
Prereq: upper division standing; ISP 2030 or 3080; ISP 3991 for all DIS students admitted Fall 1996 or after. Research for and development of a senior essay on a topic approved by the directing faculty adviser; culminates in an oral presentation for approval by faculty panel.  (T)

4992  (WI) Senior Capstone Essay/Project. Cr. 4
Prereq: senior level standing; ISP 3080; ISP 3510 or equiv.; ISP 3991 for all DIS Capstone students admitted Fall 1996 or thereafter. One-semester senior capstone essay/project for Bachelor of Interdisciplinary Studies-Capstone and Bachelor of Technical Studies students. Intensive research for development of essay or project on topic by directing faculty adviser. Satisfies University General Education Writing Intensive Course in the Major requirement.  (T)

4996  (WI) Senior Essay Seminar II. Cr. 4
Prereq: ISP 4991 and all ISP 4991 prerequisites. Continuation of first seminar; culmination in oral presentation before faculty panel and submission of completed major research essay or project for approval.  (T)

5000  (NPS 3000) Introduction to Non-Profit Sector Studies. Cr. 4
Prereq: passing score on English Proficiency Exam; junior standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Management in nonprofit organizations, including human service, arts, and cultural and civic organizations; overview of theory, practice and history in nonprofits.  (F,W)

5130  (AFS 5130) The Black Family. Cr. 4
Prereq: upper division undergraduate standing. Survey and analysis of historical and social forces relative to the study of the Black family.  (Y)

5200  (NPS 4200) Grantwriting and Survey of Resources for Nonprofits. (ISP 6200) Cr. 2-4
Prereq: NPS 3000. Broad understanding of potential financial support for nonprofit managers; art and science of proposal writing. Students complete actual grant proposal.  (T)

5260  (ANT 5260) The African Religious Experience: A Triple Heritage. (AFS 5260) Cr. 3
A triple heritage has contributed to the shaping of lives of African descent: the indigenous, Islamic and Christian religions. Analysis of these legacies, their specificity, interplay and significance in Africa, the Caribbean, South and North America.  (B)

5500  Selected Topics in Interdisciplinary Studies. (ISP 7500) Cr. 2-4 (Max. 8)
Prereq: written consent of adviser and instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Topics to be announced in Schedule of Classes.  (Y)

5510  End-of-Life Issues. (ISP 7510) (NUR 7515) (ANT 5430) (ANT 7430) (SOC 5020) (SOC 7020) Cr. 3-4
Physical, spiritual, legal, economic, political, cultural, and ethical issues at the end of life, examined as stories about individuals, families, and communities.  (Y)

5550  (NPS 3500) Management of Volunteer Programs. Cr. 3-4
Prereq: passing score on English Proficiency Exam; junior standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Volunteerism: planning and evaluation of volunteer programs, motivation, recruitment, selection and training of volunteers.  (W)

5660  (FPC 5660) Creativity: Building the New. Cr. 3-4
Prereq: junior standing or above, or consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Study of creativity with personal application. Investigations in artistic, scientific, social science, engineering, industrial, and other areas. Actual application and problem-solving skills.  (W)

5990  Directed Study. Cr. 1-4 (Max. 8)
Prereq: written consent of adviser and instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Directed study and individual research under faculty member on a topic mutually agreed upon.  (T)

6000  (NPS 4000) Marketing and Development for Nonprofits. Cr. 4
Prereq: NPS 3000. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Methods and techniques of fundraising and development for nonprofits, from perspectives of theory and practice.  (F)

6010  Interdisciplinary Core Seminar. Cr. 4
Prereq: admission to MIS program or consent of graduate chairperson. Must be elected only once; elect within the first two semesters. Introduction to themes, methods and objectives of advanced interdisciplinary study, and application of the interdisciplinary method to a major case study. Students will initiate an interdisciplinary research project.  (Y)

6110  Seminar in Historical and Cultural Studies. Cr. 4
Prereq: admission to the MIS program or consent of the graduate chairperson. Must be elected within first two semesters; may elect only once. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Introduction to principles of interdisci-
INTERDISCIPLINARY SCIENCE and TECHNOLOGY COURSES (IST)

0510 Practical Mathematics: Concepts and Applications. Cr. 3
No degree credit. Offered for S and U grades only. Review of concepts involving arithmetic, and algebra and algebraic equations, such as number systems, units conversions, ratio and proportion, exponents and radicals, and linear equations; word problems emphasized. Elementary geometry, interpretations of graphs, and probability. (F,W)

1510 History and Concepts of Mathematics: An Interdisciplinary Introduction. Cr. 3
Prereq: Passing grade in math diagnostic test or consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Historical and intercultural overview of development of mathematics, especially arithmetic algebra and geometry; conceptual framework behind common algorithms; influence of mathematics in scientific and technological development. (F,W)

1990 Science and Technology: Directed Study. Cr. 2-4 (Max. 12)
Prereq: consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Directed study supervised by a faculty member; appropriate if no course of instruction available in desired subject area. (T)

2010 Health Concepts and Strategies. Cr. 3
Coreq: IST 2010 recommended. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Conceptual treatment of individual and social components of well-being. Topics include: stress, addictive behavior, infectious and chronic diseases, sexuality, aging and death. (F)

2020 Changing Life on Earth. Cr. 3-4
Prereq: successful completion of English Proficiency Test or equiv.; coreq: IST 2010 recommended. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Introduction to some key biological concepts, including the nature of the scientific method, what processes and attributes define a living organism, how life evolved on Earth, cellular structure and function, and heredity and the genetic code. Material fee as indicated in the Schedule of Classes. (F)

2030 Conference on Biomedical Issues. Cr. 3
Semester-long course with periodic weekend sessions. Topics may include: aging and death; the delivery of health care; health and disease, and bioethics. Topics and dates announced each semester. (F)

2310 (LS) Living in the Environment. Cr. 4
For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Basic ecological concepts; interconnection between living things and their environment; fragility and resilience of biosphere; human populations; renewable and non-renewable resources; pollution and environmental health; environmental economics, politics and ethics; fate of humanity. (W)

2420 (PS) Atoms and Stars: A Historical Introduction to Astronomy, Physics and the Process of Scientific Discovery. Cr. 3-4
Meets General Education laboratory requirement when elected for four credits. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Historical introduction to key concepts in astronomy and physics; scientific process, ideas and methods. Lectures, discussion, videotape, laboratory experiments. (Y)

College of Urban, Labor and Metropolitan Affairs 467
5710 American Religion: An Interdisciplinary Social Science Study. Cr. 4
Prereq: senior standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Workshop. Socio-historical structure of religious beliefs and practices in American society from early migrations of European settlers to modern time. (Y)

INTERDISCIPLINARY HUMANITIES COURSES (I H)

1990 Urban Humanities: Directed Study. Cr. 2-4 (Max. 12)
Prereq: consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu) Directed study supervised by a faculty member; appropriate if no course of instruction available in desired subject area. (T)

2010 Cultural Identity and the American Experience: Writers' Responses. Cr. 4
Prereq: ISP 1510 or equiv. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Origins, ideals, symbols and substance of American culture and character. Critical analysis and writing on the distinguishing features of American thought and culture. (F)

2030 Visions of America Conference. Cr. 3
Semester-long course with periodic weekend sessions. Conference explores particular aspects of American society and culture, both as Americans and as people living in other parts of the world, past and present, have seen them. Topics and dates announced each semester. (F)

2710 Art and Aesthetics: Literature and Philosophy. Cr. 4
For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Analysis of literary works; philosophical approaches to the meaning and nature of literature, and of the criteria for its evaluation. (W)

2730 Meaning in the Visual and Performing Arts. Cr. 3
Weekend conference course: meaning and experience in the visual and performing arts from the perspectives of artist and audience. Analytical, interpretative, and evaluative approaches through case studies. (W)

3710 Significant Issues in Cultural Studies. Cr. 3-4
Prereq: upper division standing or consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Culture, including mass and popular cultures; how ideas give significance to human experience, and how they are valued and devalued. Writing of essays with emphasis on comparative method. (Y)

3730 Music and American Culture. Cr. 3
Prereq: upper division standing. Conference course. Study of cultural meaning focusing on one or more selected art forms: history of art, music, poetry, film, dance, theatre, or appropriate combinations of these media. (Y)

3810 Discovering the Past. Cr. 3-4
Prereq: upper division standing or consent of instructor. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Methodological and philosophical considerations integral to history; the act of historical inquiry. (Y)

NONPROFIT SECTOR STUDIES COURSES (NPS)

3000 Introduction to Non-Profit Sector Studies. (ISP 5000)
Cr. 4
Prereq: passing score on English Proficiency Exam; junior standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Management in nonprofit organizations, including human service, arts, and cultural and civic organizations; overview of theory, practice and history in nonprofits. (F,W)

3100 Nonprofit Leadership. Cr. 4
Prereq: junior standing; passing score on English Proficiency Examination. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Expert knowledge of Michigan and national philanthropy; builds on overview provided in NPS 3000. (T)

3500 Management of Volunteer Programs. (ISP 5550) Cr. 3-4
Prereq: passing score on English Proficiency exam; junior standing. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Volunteerism: planning and evaluation of volunteer programs, motivation, recruitment, selection and training of volunteers. (W)

4000 Marketing and Development for Nonprofits. (ISP 6000)
Cr. 4
Prereq: NPS 3000. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). Methods and techniques of fundraising and development for nonprofits, from perspectives of theory and practice. (F)

4100 Information Technology in Nonprofit Operations. Cr. 4
Prereq: NPS 3000 or successful satisfaction of intermediate writing course. Hands-on course: laboratory use of fundraising, word-processing, spreadsheet, desktop publishing software. Comparison of major nonprofit software; how information technology is used in nonprofit organizations. (F,W)

4200 Grantwriting and Survey of Resources for Nonprofits. (ISP 5200) (ISP 6200) Cr. 2-4
Prereq: NPS 3000. Broad understanding of potential financial support for nonprofit managers; art and science of proposal writing. Students complete actual grant proposal. (T)

4300 Topics in Non-Profit Sector Studies. Cr. 4 (Max. 12)
Prereq: NPS 3000. For any class designated as Web, contact online: (http://www.classschedule.wayne.edu). New and developing topics in nonprofit sector studies; timely and historical perspectives. (Y)

4450 Program Planning and Evaluation. Cr. 3
Coreq: courses numbered above NPS 4000, or electives. Program planning and evaluation as ongoing tools for effectiveness and efficiency of nonprofit organizations. Processes necessary for evaluation and continuous planning. (Y)

4500 Internship and Leadership in Non-Profit Sector Studies. Cr. 4-8
Prereq: NPS 3000; 3500 or 4000; consent of instructor. Training under professionals in a nonprofit setting; demonstration of nonprofit leadership and trainer skills at professional level. (T)
LABOR STUDIES

Office: 3178 Faculty/Administration Building; 577-2191
Director: Hal Stack
Web: http://www.laborstudies.wayne.edu

Degree Program

BACHELOR OF ARTS with a major in Labor Studies

The Labor Studies Program provides students with the opportunity to develop the critical skills necessary to analyze employment and workplace issues, with a special focus on the needs and interests of workers and their unions. An interdepartmental program, the labor studies major examines the social, political, and economic dimensions of these issues in the context of a broad liberal arts education. For labor studies, the issues to be considered are not only processes in the workplace, but outcomes; not only peace and harmony, but justice and power. Students completing the program will receive a bachelor of arts degree from the College of Urban, Labor and Metropolitan Affairs.

Labor Studies (B.A. Program)

The Labor Studies major prepares students for work with unions, private employers, and government in the areas of labor relations, personnel, and human resource management. Graduates work with unions as field representatives, organizers and research analysts; in government as labor relations specialists, mediators and policy makers; and with employers as labor relations, personnel and human resource administrators. Many graduates continue their studies in law school or graduate school. Students considering graduate study are encouraged to consult with the adviser regarding graduate school requirements.

Admission Requirements for this program are satisfied by the general requirements for undergraduate admission to the University; see page 15.

DEGREE REQUIREMENTS: Candidates for the bachelor’s degree must complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 223) and the University General Education Requirements (see page 23), as well as the core courses and specialized and applied curricula listed below. All course work must be completed in accordance with the academic procedures of the University and the College of Urban, Labor and Metropolitan Affairs governing undergraduate scholarship and degrees; see sections beginning on page 23, 38, and 456.

REQUIRED CORE COURSES (Twenty Credits)

- LBS 2500 -- Introduction to Labor Studies: Cr. 4
- LBS 4700 -- (WI) Senior Seminar: Cr. 3
- HIS 5290 -- American Labor History: Cr. 4
- PSY 3500 -- Psychology of the Workplace: Cr. 3
- P S 6050 -- Class, Race and Politics in America: Cr. 3
- P S 6070 -- Labor and American Politics: Cr. 4

Applied and Specialized Curriculum: Four courses (twelve credits) must be selected from the following lists:

RELATED COURSES (12 credits)

- LBS 4500 -- Applied Labor Studies: Collective Bargaining: Cr. 3
- LBS 4500 -- Applied Labor Studies: Labor Law: Cr. 3
- LBS 4500 -- Applied Labor Studies: New Forms of Work Organization: Cr. 3
- PSY 5710 -- Dispute Resolution: Cr. 3
- PSY 5540 -- Motivation in the World of Work: Cr. 3
- PSY 5630 -- Group Dynamics: Cr. 3
- HIS 5320 -- Black Labor History: Cr. 3
- HIS 5630 -- Socialism and the European Labor Movement: Cr. 3
- MGT 5740 -- Collective Bargaining: Cr. 3
- P S 3020 -- Political Parties and Elections: Cr. 4
- P S 3030 -- Power and Pressure Groups: Cr. 4
- P S 3040 -- The Legislative Process: Cr. 4

Students are referred to the program director for information concerning courses, directed study, internships, career information, and graduate study.

Non-Credit Offerings

In addition to the undergraduate degree program described above, the Labor Studies Center also offers a variety of non-credit courses, conferences and specially designed programs for unions and their members throughout southeast Michigan.

Non-Credit Courses: The Labor Studies Center offers a full range of short, non-credit courses on skills and issues important to unions and their members. These include courses on labor law, collective bargaining, parliamentary procedure, steward training, grievance analysis, arbitration, union administration, public speaking, new technology, occupational health and safety, and new forms of work organization. These courses typically meet for six two-hour sessions and are held both on campus and at local union halls. The courses are open to all workers regardless of previous educational background. They are not regular credit courses, and should not be confused with University credit courses identified by three-letter subject area codes and numbers.

Labor School Program: In addition to the short non-credit courses, the Labor Studies Center also offers a two-year, non-credit certificate program designed to strengthen workers’ leadership skills and increase their understanding of the complex issues confronting workers and their unions in contemporary society. Open to all workers regardless of previous educational background, the Labor School meets once a week for two and one-half hours thirty weeks each year. Students who successfully complete the Labor School program are eligible for undergraduate admission to the University regardless of previous educational background.

FIRST YEAR

Labor Perspectives — Union history and current issues.
History of Social Movements — A grass-roots history of how working people shaped our society
Power and Politics — The power structure in America and how it shapes our lives
Labor and the Media — Analysis of news reporting and the media

SECOND YEAR

Economics for Workers — Functioning of the American economy.
Leading a Diverse Union — Using workplace diversity as a source of union strength.
Union Skills — Labor law, collective bargaining, etc.
Labor Strategies — Strategies for increasing union power and effectiveness

LABOR STUDIES COURSES (LBS)

The following courses, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 481.

2500 (HUM 2500) Images of Labor in the Arts and Literature. Cr. 4

Diverse history of labor as reflected in the popular arts (films, songs, stories, and graphics).
4500  Applied Labor Studies. Cr. 3 (Max. 12)
Prereq: consent of instructor. Practical training in various labor rela-
tions specialties, such as collective bargaining or labor law. Consult
coordinator on specific topic.  (T)

4700  (WI) Senior Seminar. Cr. 3 (Max. 6)
Prereq: consent of instructor. Research, reflection, discussion and
analysis of labor relations practice.  (Y)

4990  Directed Study. Cr. 3-6 (Max. 6)
Prereq: consent of coordinator. Supervised reading and research in
labor studies.  (T)

PEACE and CONFLICT STUDIES

Office: 2320 Faculty/Administration Building; 577-3453;
Fax: 577-8269
Web: http://www.pcs.wayne.edu
http://www.mtds.wayne.edu
Director: Frederic S. Pearson

Executive Committee

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Ronald Aronson, Urban, Labor and Metropolitan Affairs
Navaz Bhavnagri, Education
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Guy Stern, German and Slavic
Frances Trix, Anthropology
Robert Vieweg, Geography and Urban Planning
William Warters, Urban, Labor and Metropolitan Affairs
Marvin Zalman, Criminal Justice
Marilyn Zimmerman, Fine Arts

Peace and Conflict Studies
(Former Program)

The Peace and Conflict Studies (PACS) Co-Major Program inte-
grates a variety of practical courses and interdisciplinary research to
allow students to combine with their own majors training, study, and
experience in peace studies and the emerging field of dispute resolu-
tion, both national and international. The curriculum deals with the
most fundamental of human concerns: how to manage or resolve
conflict constructively. Students are introduced to the causes of
human conflict and violence, as well as approaches to conflict man-
agement ranging from diplomacy, law and negotiation, to mediation
and arbitration. Questions are raised concerning the issues of social
justice, ethnicity, race, and culture.

The PACS curriculum provides a framework useful for careers in
legal, educational, governmental, business, labor, social service, and
health professions, as well as in graduate education. Students are
offered opportunity for hands-on experience, and are encouraged to
build adaptive skills useful for the future. Courses in this curriculum

470  College of Urban, Labor and Metropolitan Affairs
The program is designed around a set of core courses, which introduce the student to the field, to various approaches to conflict management and to application of conflict management methods, and finally assess the student’s overall progress in a senior research seminar. Seventeen elective credits are required, of which at least six must be upper-divisional. These may be chosen generally from the list below, or may be focused in one of seven specialty areas: race, gender and religion; peace and conflict theory; human rights; international issues of peace and conflict studies; peace and conflict studies in the United States; peace studies in human development; and dispute resolution. Some electives may also count toward satisfaction of major requirements or of college group requirements.

Students are encouraged to participate in the development of their curriculum; in addition to selecting from a wide variety of suggested PACS electives, co-majors are able to choose other elective courses with prior consent of the Director. Students are also encouraged to participate in the Peace and Conflict Studies Student Forum, which organizes speakers and other special educational programs and events on various subjects.

**CORE REQUIREMENTS**

- **PCS 2000** -- Introduction to Peace and Conflict Studies: Cr. 3
- **PCS 6000** -- Senior Seminar in Peace and Conflict Studies: Cr. 3

*plus two courses from the following:*

- **AFS 2210** -- (SS) Black Social & Political Thought: Cr. 4
- **ANT 5200** -- Social Anthropology: Cr. 3
- **ECO 5300** -- International Trade: Cr. 4
- **HIS 5130** -- American Foreign Rel. Since 1933 (HIS 7130): Cr. 4
- **PCS 2010** -- Topics in PACS 1 (P S 2830) (HIS 2520): Cr. 1-4
- **PCS 2020** -- Science, Tech. and War (HIS 2510) (P S 2440): Cr. 4
- **PCS 2050** - Non-Violence: Cr. 3
- **PCS 5100** - Advanced Special Topics 1: Cr. 3-4
- **PCS 5999** -- Special Readings/Research: Cr. 3
- **PHI 2330** -- Introduction to Social & Political Philosophy: Cr. 3
- **P S 2810** -- World Politics: Cr. 4
- **PSY 2600** -- Psychology of Social Behavior: Cr. 4
- **SOC 3300** -- (SS) Social Institutions and Social Structure: Cr. 4

*Plus one course from the following:*

- **PCS 5000** - Dispute Resolution: Cr. 3
- **PCS 5010** - Internship: Cr. 3
- **PCS 5500** - Ethnicity: Cr. 4

**ELECTIVES (Seventeen Credits)**

The University offers a large number of conflict- and peace-related courses in a variety of colleges that are suitable electives for this program. The following are appropriate for the co-major; a number of others might qualify for inclusion upon petition of the student.

**Race, Gender and Religion**

- **AFS 2210** -- (SS) Black Social & Political Thought: Cr. 4
- **AFS 2800** -- Race and Racism in America (SOC 2800): Cr. 3
- **AFS 3420** -- Pan-Africanism: Politics of the Black Diaspora: Cr. 4
- **AFS 3860** -- Race, Class & Criminal Justice Sys. (SOC 3860): Cr. 3
- **AFS 5570** -- Race Relations in Urban Society: Cr. 3
- **ANT 3110** -- Detroit Area Minorities: Arabs, Hispanics, & African Americans: Cr. 3-4
- **ANT 3530** -- Native Americans: Cr. 3
- **ANT 5240** -- Cross-Cultural Study of Gender: Cr. 3
- **ANT 5260** -- The African Religious Experience: A Triple Heritage (AFS 5260) (ISP 5260): Cr. 3
- **HIS 3150** -- The Black Experience in America II:
  - 1865 to the Present (AFS 3150): Cr. 3-4
  - HIS 5200 -- Women in American Life & Thought (HIS 7200): Cr. 3
  - HIS 5480 -- Nazi Germany (HIS 7480): Cr. 3-4
  - N E 2020 -- Survey of Jewish History & Civilization (HIS 2320): Cr. 3
  - P S 4780 -- Contemporary African Politics (AFS 4780): Cr. 4
  - P S 5030 -- African American Politics (AFS 5030): Cr. 4
  - PSY 3250 -- Psychology of Men: Cr. 3
  - SOC 4460 -- Women and Society: Cr. 3
  - SOC 5570 -- Race Relations in Urban Society (AFS 5570): Cr. 3
  - COM 4030 -- Gender and Communication (W S 4030): Cr. 3
  - COM 4040 -- Diversity in Interpersonal Communication: Cr. 3

**Peace and Conflict Theory**

- **ANT 5140** -- Biology and Culture: Cr. 3
- **CRJ 5060** -- Comparative Criminal Justice Systems: Cr. 3
- **GER 2700** -- (PL) Anguish & Commitment: European Existentialist Literature (SPA/CRE/ITA/RUS 2700): Cr. 3-4
- **HIS 3350** -- Revolution in the Modern World: 1750 - Present: Cr. 3
- **PCS 2010** -- Non-Violence (P S 2550) (SOC 2050): Cr. 3
- **PHI 3270** -- Foundations of Law: Cr. 3
- **P S 2460** -- Policy and Rationality: Dilemmas of Choice: Cr. 4
- **P S 3510** -- (PL) Law, Authority & Rebellion: Cr. 4
- **P S 3520** -- (PL) Justice: Cr. 4
- **P S 5350** -- Great Political Thinkers: Cr. 4
- **P S 5560** -- Biopolitics: Cr. 4
- **P S 5830** -- International Conflict and Its Resolution: Cr. 4
- **PSY 3040** -- Psy. of Perception: Fundamental Processes: Cr. 3
- **PSY 3080** -- Cognitive Psy. Fundamental Processes (LIN 3080): Cr. 3
- **PSY 3200** -- Motivation, Feeling & Emotion: Cr. 3
- **PSY 3310** -- Abnormal Psychology: Cr. 4
- **SOC 3820** -- Theories of Crime & Delinquency: Cr. 3
- **SOC 5870** -- Violence in the Family: Cr. 3-4

**Human Rights**

- **AFS 2600** -- Race & Racism in America (SOC 2600): Cr. 3
- **AFS 3860** -- Race, Class, & Criminal Justice Sys. (SOC 3860): Cr. 3
- **AFS 5320** -- Black Labor History (HIS 5320): Cr. 3
- **AFS 5580** -- Law & the African American Exp. (SOC 5580): Cr. 4
- **CBS 2430** -- History of Latinos in the U.S. (HIS 2430): Cr. 3
- **CLA 3100** -- Law and Ancient Society: Cr. 3-4
- **CRJ 4600** -- The Police in America: Cr. 4
- **CRJ 5720** -- Criminal Law: Cr. 4
- **ECO 5490** -- American Labor History (HIS 5290) (HIS 7290): Cr. 4
- **PHI 3270** -- Foundations of Law: Cr. 3
- **PCS 2010** -- Topics in PACS: Humanitarian Intervention (P S 2830) (HIS 2520): Cr. 3
- **P S 5120** -- Constitutional Rights & Liberties: Cr. 4
- **P S 5820** -- International Law: Cr. 4
- **SOC 2600** -- Race and Racism: Cr. 3
- **SOC 3860** -- Race, Class, and the Criminal Justice System: Cr. 3
- **SOC 5700** -- Inequality and Social Class: Cr. 3

**International Issues in Peace & Conflict Studies**

- **ANT 3100** -- Cultures of the World: Cr. 3-4
- **ANT 3540** -- (FC) Cultures & Societies of Latin America: Cr. 3
- **ANT 3550** -- (FC) Arab Society in Transition (N E 3550): Cr. 3
- **ECO 5300** -- International Trade: Cr. 4
- **ECO 5310** -- International Finance: Cr. 4
- **ISP 3610** -- (FC) Interdisciplinary Perspectives in Foreign Culture: The Africans (AFS 3610): Cr. 4
- **GPH 2700** -- Introduction to Canadian Studies: Cr. 3
- **HIS 1400** -- (HS) The World Since 1945: Cr. 3-4
- **HIS 3350** -- American Foreign Rel. Since 1933 (HIS 7130): Cr. 4
- **HIS 5200** -- Women in American Life & Thought (HIS 7200): Cr. 3
- **HIS 5480** -- Nazi Germany (HIS 7480): Cr. 3-4
- **HIS 3050** -- United States & the Vietnam Experience: Cr. 4
- **JPN 4550** -- (FC) Japanese Culture & Society I: Cr. 4
- **JPN 4560** -- (FC) Japanese Culture & Society II: Cr. 4
- **N E 2020** -- History of Latinos in the U.S. (HIS 2430): Cr. 3
- **P S 2700** -- Introduction to Canadian Studies (HIS 2700) (GPH 2700): Cr. 3
- **P S 2710** -- Introduction to Comparative Politics: Cr. 4
- **P S 3810** -- Foreign Policies of Major Powers: Cr. 4
To receive a Minor in Peace and Conflict Studies, a student must complete four core courses (PCS 2000, 6000, and one from each of the other core groups above), in addition to six credits in conflict-related elective courses, all of which must be upper-divisional. Electives may be selected from the courses listed above, or from other curricula, with approval of the Peace and Conflict Studies Director.

**PEACE and CONFLICT STUDIES COURSES (PCS)**

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses numbered 7000-9999, which are offered for graduate credit only, may be found in the graduate bulletin. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

**2000** Introduction to Peace and Conflict Studies. (HIS 2500) (P S 2820) Cr. 3

Open to all undergraduate students. Introduction to the peace and conflict studies co-major. Survey, ranging from biology to international politics; conflict among animals, within the individual, the family, the neighborhood and region, the nation and global community.

**2010** Topics in Peace and Conflict Studies. (HIS 2520) (P S 2830) Cr. 1-4

Special topics relating to peace and conflict studies.

**2020** (PHY 2020) Science, Technology, and War. (HIS 2510) (P S 2440) Cr. 4

May not be used to fulfill natural science group requirement. Modern weapons, nuclear and otherwise, becoming increasingly available and dangerous; people with grievances eager to use them. Science and technology behind weapons development and use; impact of technologies on prospects and results of war and peace. Constraints of career, bureaucracy and society on development, deployment and use of weapons. History of humanity and its tools of war.

**2050** The Study of Non-Violence. (HIS 2530) (P S 2550) (SOC 2050) Cr. 3

Intelectual and social roots of non-violence and the practice of non-violence in different people's life styles.

**5000** Dispute Resolution. (CRJ 5994) (P S 5890) (PSY 5710) Cr. 3

Overview of the processes and actors in the field of dispute resolution including negotiation, mediation, arbitration, and conciliation.

**5010** Internship in Dispute Resolution. Cr. 3

Prereq: PCS 5000. Offered for S and U grades only. Internship in dispute resolution or mediation agency in Detroit area.

**5100** Advanced Special Topics. Cr. 3-4

Prereq: senior standing. Topics may include: study of negotiating processes, or organizations and processes involved in conflict resolution.

**5500** (P S 5740) Ethnicity: The Politics of Conflict and Cooperation. (AFS 5740) Cr. 4

Current ethnic (racial, linguistic, religious, and cultural) conflicts regionally, nationally and internationally. Introduction to concepts and analytic perspectives for understanding ethnicity as a factor in nation building and maintenance.

**5999** Special Readings/Research. Cr. 3

Prereq: consent of instructor. Intensive study with faculty member on peace-related topic; may include study abroad projects. For co-majors and non-majors.

**6000** Senior Seminar in Peace and Conflict Studies. Cr. 3

Prereq: senior standing; PCS major. Offered for undergraduate credit only. Students work on a research project relevant to concepts studied in the program.
URBAN STUDIES

Office: 225 State Hall; 577-0538; Fax: 577-0022
Web: http://culma.wayne.edu/gup/
e-mail: urbanstudies@wayne.edu
Interim Director: Richard C. Sauerzopf

Urban Studies Co-Major Program

The Urban Studies Co-Major Program is an undergraduate interdisciplinary course of study leading to a bachelor's degree with a co-major designation. The co-major format enables students to graduate with two fields of major emphasis. The co-major program is flexible enough to serve a wide variety of student needs and interests. ‘Urban’ includes ‘suburban’, the spatial patterning of national urban networks as well as the inner life of individual cities; and broad historical, international comparative, economic or cultural concerns as well as specific practical problems.

Admission: A student must have met the entrance requirements of the University (see page 15) to apply for this program. When the Declaration of Major form has been completed at the beginning of the junior year and has been authorized for an approved major, the student may then use the same form to apply for acceptance into the co-major program.

CO-MAJOR REQUIREMENTS: Four core courses (fourteen credits) and eighteen credits of urban-related elective courses, of which at least six must be upper division, are required. All course work must be completed in accordance with the academic procedures of the University and of this college — see sections beginning on page 23, 38, and 456 — and of the college sponsoring the major program taken as a cognate to the urban studies curriculum.

Core Requirements (Fourteen credits)

U S 4510 — Cities and Regions (GPH 4510): Cr. 4
One of the following:
U S 2992 — (P S 2992) Political Science Internship: Cr. 4
U S 6000 — (CRJ 6000) Internship: Cr. 3
U S 6050 — (GEG 6520) Independent Field Study (GPH 6520): Cr. 2-4

Electives

The University offers several urban-related courses suitable as electives. Students must complete twenty-two credits in urban-related electives. Note that many electives may be used to satisfy major and co-major requirements simultaneously. The following list is not exhaustive:

AFS 3160 — Black Urban History. (HIS 3160): Cr. 4
ANT 3110 — Detroit Minorities: Arabs, Hispanics, African Americans: Cr. 3-4
ANT 3200 — (HS) Lost Cities and Ancient Civilizations. Cr. 3
ECO 6810 — (ULM 6150) Political Economy of the Urban Ghetto. (SOC 6850)
(P U P 6670): Cr. 3
GPH 3600 — Intro. to Geographic Information Systems: Cr. 4
GPH 5650 — (GEG 5650) Metropolitan Detroit: Cr. 4
GPH 5750 — (GEG 5750) Social and Economic Geography of the U.S.
and Canada: Cr. 4

GPH 6150 — (GEG 6150) Internal Structure of the City. (U P 5420): Cr. 4
ISS 2730 — Conference on Contemporary Issues in Ethnic Studies: Cr. 3
HIS 1050 — (AI) American Civilization Since World War II: Cr. 3-4
HIS 2050 — United States Since 1877: Cr. 3-4
HIS 3170 — Ethnicity and Race in American Life (AFS 6170)
(HIS 6170): Cr. 3-4

HUM 1030 — Exploring the Arts in Detroit: Cr. 4
P S 3250 — Detroit Politics: Continuity & Change in City & Suburbs
(HIS 3240) (ULM 3250): Cr. 4
SOC 3510 — (SS) The Nature and Impact of Population on Society:
Cr. 3
ULM 6150 — Political Economy of the Urban Ghetto (ECO 6810)
(SOC 6850)
(P U P 6670): Cr. 3
ULM 6350 — Sociology of Urban Health (SOC 6750): Cr. 3
ULM 6680 — Neighborhood Decline and Revitalization (U P 6680):
Cr. 3
U P 3530 — Urban and Regional Planning (GPH 3530) (U S 3530):
Cr. 3
U P 5100 — Field Studies on Urban Problems: Cr. 2-4 (Max. 6)
U P 5110 — Urban Planning Process: Cr. 4
U P 5999 — Special Topics: Women and Cities in World Perspective:
Cr. 3
U P 6210 — Urban Design Elements: Cr. 3
U P 6510 — Urban and Regional Systems (GEG 6510) (GPH 6510):
Cr. 4
U S 2992 — (P S 2992) Political Science Internship: Cr. 4
U S 6050 — (GEG 6520) Independent Field Study (GPH 6520):
Cr. 2-4

Upon the approval of an Urban Studies adviser, the student may also elect courses in philosophy, computer science, statistics, architectural drafting, journalism, or speech pertaining to mass media, or in colleges outside Urban, Labor and Metropolitan Affairs—depending on the student's overall plan of study. Some urban-related careers require special training in natural sciences and/or advanced mathematics.

URBAN STUDIES COURSES (U S)

The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.

(HIS 2000) (P S 2000) (SOC 2500): Cr. 4

Urban phenomena, past and present, quality and nature of urban life, major concerns of urban areas; perspectives and techniques of various urban-related disciplines.

2992 — (P S 2992) Political Science Internship. Cr. 1-4 (Max. 6)
Prereq: consent of undergraduate adviser. Open only to political science majors or minors, urban studies co-majors, or students with twelve credits or more in political science. Offered for S and U grades only. Internship in a public or quasi-public organization, agency, civic or voluntary group, or campaign organization. Collateral reading, written work, arranged conferences with faculty supervisor.

3530 — (U P 3530) Urban and Regional Planning. (GPH 3530)
Cr. 3
Introduction to urban and regional planning concepts, including zoning, growth management and economic development. Emphasis on metropolitan Detroit.

4510 — Cities and Regions. (GPH 4510) Cr. 4
Processes of urbanization and metropolitanization in both the western and non-western worlds.

6000 — (CRJ 6000) Internship. Cr. 1-8 (Max. 8)
Undergraduate credit only. Comprehensive internship program involving various criminal justice agencies. Placement may be made in court, corrections, police, juvenile justice, and other agencies at the state, county and local levels; opportunities include agency procedure and policy, patrol, case analysis, report writing and research.

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6050  (GEG 6520) Independent Field Study. (GPH 6520)  
   Cr. 2-4 (Max. 4)  
Prereq: U S 4010 and consent of instructor. Observation and interpretation of data in the field. Preparation, use and evaluation of classroom units in K-12; for pre-college teachers taking course for credit towards an advanced degree. Class preparations prior to travel; for K-12 teachers, classroom unit use and evaluation.  

6455  (U P 6455) Discrimination and Fair Housing. (SOC 6455)  
   (P S 6455) (AFS 6455) (ECO 6455) Cr. 3  
Prereq: senior or graduate standing. Multidisciplinary investigation into the nature, motivations, consequences, and legal/public policy implications of racial/ethnic discrimination in housing and related markets in U.S. metropolitan areas.  

URBAN, LABOR and METROPOLITAN STUDIES INTERDISCIPLINARY COURSES  
(ULM)  
The following courses, numbered 0900-6999, are offered for undergraduate credit. Courses in the following list numbered 5000-6999 may be taken for graduate credit unless specifically restricted to undergraduate students by individual course limitations. For interpretation of numbering system, signs and abbreviations, see page 481.  

3070  Michigan Politics. (P S 3070) Cr. 4  
History and overview of Michigan politics: structure, process, current issues.  

3250  (P S 3250) Detroit Politics: Continuity and Change in City and Suburbs. (HIS 3240) Cr. 4  
Detroit area political systems and processes, historical, economic, and social influences on local politics. Traditions, changes, and future challenges in Detroit and metropolitan area.  

5999  Special Topics. Cr. 1-4 (Max. 8)  
Prereq: junior, senior, or graduate standing.  

6100  Class, Race, and Politics in America. (AFS 6100)  
   (HIS 5110) (P S 6050) (SOC 7330) (U P 7030) Cr. 3  
Prereq: senior standing or consent of instructor. Historical and analytic investigation into the role of class and race in American politics.  

6150  Political Economy of the Urban Ghetto. (ECO 6810)  
   (SOC 6850) (U P 6670) Cr. 3  
Prereq: graduate standing; upper division undergraduates by consent of instructor. Examination of the economic, social and political transformation of U.S. cities; particular attention to the formation, dynamics, economics and social sub-systems of urban ghettos and their relationship to broader contexts.  

6210  Regional, State, and Urban Economic Development: Policy and Administration. (ECO 6650) (P S 6440)  
   (U P 6550) Cr. 3  
Prereq: graduate standing. Examination of regional, state, and local economic development theory, analysis, policy and administration.  

6350  Sociology of Urban Health. (SOC 6750) Cr. 3  
Prereq: graduate standing; undergraduates by consent of instructor. Review of theories and research on health status and health care delivery issues in urban communities.  

6400  (U P 6350) Housing Policy and Programs. Cr. 3  
Governmental housing policies and programs at the Federal, state and local levels. Role of community-based organizations in housing activities.  

6680  Neighborhood Decline and Revitalization. (U P 6680)  
   Cr. 3  
Examination of reasons for neighborhood change and how plans and policies can be specified and implemented for neighborhood improvement.  

6999  Special Topics. Cr. 3  
Open only to graduate students.  

interdependence of law and social work practice and the knowledge and skill needed to help integrate law into social work practice.  

6680  Neighborhood Decline and Revitalization. (U P 6680)  
   Cr. 3  
Examination of reasons for neighborhood change and how plans and policies can be specified and implemented for neighborhood improvement.  

6999  Special Topics. Cr. 3  
Open only to graduate students.  

(B)
ADDITIONAL ACADEMIC PROGRAMS
Academic Success Center

1600 Adamany Undergraduate Library; 577-3165; Fax: 577-9372
Hours: Mon. - Thurs., 8:30 a.m. - 8:00 p.m.; Fri., 8:30 a.m. - 5:00 p.m.
Website: http://www.success.wayne.edu/

Academic Success Center offers non-credit courses to help students ensure successful education outcomes, develop skills for University and career life, and avoid commonly-encountered difficulties. For further information, see page 36.

READING EFFICIENCY COURSES (R E)

For interpretation of course numbering system and signs, see page 481.

0990 Learning Theory and Study Skills. Cr. 0
Offered for S and U grades only. No degree credit. Application of learning and memory theory for developing basic reading skills and effective study habits. Memory improvement, time scheduling, note-taking methods, textbook chapter reading and test-taking techniques. (T)

0991 Individualized Study Skills Laboratory Cr. 0
Offered for S and U grades only. No degree credit. Individualized course in reading and study skills offered on an arranged basis. Preparation for professional school exams (e.g., GRE, MCAT); supplementary mathematics and writing skills programs also available. (T)

0994 Vocabulary Enrichment. Cr. 0
Offered for S and U grades only. No degree credit. Exploration of a variety of methods for improving and expanding both general and specialized vocabulary according to individual student's needs. (T)

0995 Analytical Reading for Textbook Study Cr. 0
Offered for S and U grades only. No degree credit. An analytical, developmental reading method designed to increase reading comprehension; focuses on critical thinking skills required for textbook study-reading. (T)

0996 Speed Reading. Cr. 0
Offered for S and U grades only. No degree credit. Strategies practiced to overcome common reading problems that inhibit efficient reading speed. Skills developed to enable students to use flexibility in choosing a reading rate that corresponds to their purpose. (T)

0998 Pre-Medical Study Skills. Cr. 0
Prereq: consent of instructor. Offered for S and U grades only. No degree credit. Time management, comprehension skills, scientific terminology, medical note-taking, test-taking skills, analytical reading, critical thinking and problem-solving. (Y)

UNIVERSITY COUNSELING SERVICES COURSE (UCS)

For interpretation of course numbering system and signs, see page 481.

0991 Designing Your Future. Cr. 0
Prereq: coregistration in at least one credit course. Offered for S and U grades only. No degree credit. Concepts of work and career; development of knowledge of world of work and related self-knowledge; exploration of educational and career options; decision-making strategy; establishment of personal career goals and career plan. (I)

Aerospace Studies

The Air Force Officer Education Program at the University of Michigan provides Wayne State University students opportunity to earn a commission as a second lieutenant in the U.S. Air Force through the Air Force Reserve Officer Training Corps (AFROTC). Four-year and two-year programs are offered, and aerospace studies classes are conducted on the University of Michigan campus, Ann Arbor MI; registration is managed by the AFROTC. Interested students should contact AFROTC at (734) 764-2403 or visit Room 154 at North Hall on the Ann Arbor campus. Students who enroll as cadets in the Air Force Officer Education Program, successfully complete the program, and receive a university degree are commissioned as second lieutenants in the United States Air Force.

Admission to introductory-level courses in this program is open to anyone, but admission to junior-level standing is open only to students having matriculate status in a four-year degree program at one of the resident sponsoring institutions.

Career Opportunities: Men and women can serve in a wide range of flying duties as aircrew members or in technical fields such as meteorology, research and development, communications and electronics, engineering, transportation, logistics, and intelligence, as well as in numerous managerial and training fields such as administrative services, accounting and finance, personnel, manpower management, education and training, investigation, and information services. Advanced education or technical training for these career areas may be obtained on active duty at Air Force expense.

Four-Year and Two-Year Programs: The four-year program consists of eight terms (sixteen credits) of course work. The first four terms (freshman and sophomore years) comprise the General Military Course (GMC). During the summer following this sequence, each student is required to attend a four-week summer training session. After completing field training, students enroll in the last four terms (junior and senior years) of AFROTC called the Professional Officer Course (POC).

The two-year program is for junior-level college students or graduate students who have not participated in the GMC but want to enter the POC. These students must attend a six-week field training session prior to entering the POC. Application for the two-year program must be made prior to December 1st for students entering the POC in the fall term as juniors.

Financial Benefits and Scholarships: All students enrolled in the POC, whether or not on scholarship, receive a monthly stipend of $150.00 for each month of the academic school year. Uniforms, AFROTC books, and equipment are furnished free of charge. Pay and a travel allowance are provided to attend field training. AFROTC provides scholarships on a competitive basis for periods of two to three and one-half years. These scholarships provide tuition, laboratory fees, a book allowance, and the monthly $150.00 stipend. Room and board are not furnished.

Obligation to the Air Force: After graduation and commissioning, graduates are called to active duty in the Air Force. The period of service is four years for non-aircrew members, six years for navigators, and ten years for pilots. Obligations for aircrew members begin following graduation from aircrew training. A contractual obligation is incurred for non-scholarship students when they enter the POC. Scholarship students incur an obligation in their sophomore year.

Flight Activities: Mentally and physically qualified cadets who receive a pilot training slot receive four hours of flight and aircraft familiarization training. This training usually takes place between the freshman and sophomore years.

Course of Study: Students enroll in one course of Aerospace Studies (ASC) during each term of participation in the program. In addition to the lecture, there is a mandatory one and one-half hour Leadership Laboratory with each of the eight terms, for those students who are eligible for the commissioning program.
MAP 2
MAP 3
### SUBJECT AREA CODES

Subject area codes are two- or three-letter prefixes to the numbers used to identify courses offered by the University. The following index identifies the subject content of these codes and indicates the page number on which courses may be found.

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UNDERGRADUATE COURSE NUMBERING SYSTEMS

For the College of Education
0000-4999 — Undergraduate credit only.
5000-6999 — Undergraduate or graduate credit.

For the Faculty of Pharmacy
0000-2999 — Preprofessional Courses.
3000-3999 — First Professional Year Courses.
4000-4999 — Second Professional Year Courses.
5000-5999 — Third Professional Year Courses.
6000-6999 — Undergraduate/Graduate Courses.

For All Other Schools and Colleges
0000-0999 — No degree credit; graded S and U.
  — School of Business Administration: Elementary courses auxiliary to the usual academic program.
  — College of Engineering: Orientation courses.
1000-1999 — Primarily freshman courses; open to all undergraduates.
2000-2999 — Primarily freshman and sophomore courses; open to all undergraduates who have completed course prerequisites.
  — School of Business Administration: Primarily junior college courses.
  — College of Engineering: Lower division courses; open to all undergraduates.
3000-4999 — Junior and senior courses; undergraduate credit.
(Ordinarily freshmen and sophomores will not be permitted to register for these courses.)
  — College of Engineering: Upper division courses.
5000-6999 — Junior and senior courses; undergraduate and graduate credit.

COURSE SYMBOLS and ABBREVIATIONS

Course Offering Frequency: Parenthetical letters at the end of course descriptions identify the term and frequency courses will be offered.

(T) — Offered every term
(Y) — Offered at least once every academic year
(F) — Offered Fall Term
(W) — Offered Winter Term
(S) — Offered Spring/Summer Term
(B) — Offered every other year
(I) — Offered irregularly

Course Activity: The following abbreviations used in some Courses of Instruction sections indicate the basic instructional mode (or modes) of certain courses. The number following the abbreviation indicates the number of clock hours per week assigned to that mode:

CLN — Clinic
DSC — Discussion
FLD — Field
IND — Individual
LAB — Laboratory
LCT — Lecture
OTH — Other
QUZ — Quiz
SMR — Seminar
STD — Studio
TV — Television

Cr. Credit: The amount of credit indicated by the number or numbers following the abbreviation.

Max. Maximum: Course may be re-elected to the maximum credit indicated.

Prereq. Prerequisite: Course must be preceded by the indicated course or courses or other requirements.

Coreq. Corequisite: Course must be accompanied by the indicated course or courses.

Cross-listed courses may be taken for major credit in more than one department, as indicated by cross-references which appear in parentheses either before or after the title. In registering for cross-listed courses, the student should be certain that he/she has designated the department and course number under which he/she wishes to earn the credit.
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