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WAYNE STATE UNIVERSITY

UNDERGRADUATE BULLETIN

1997-1999



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1997-1999 Academic Calendar

Spring/Summer Term, 1997

Term begins	Sat., May 3, 1997
Final registration	Fri., May 2 – Mon., May 5
Spring and Spring/Summer Classes begin	Tues., May 6
Last day for filing degree applications	Tues., May 6
Memorial Day recess	Mon., May 26
¹ Day scheduled as Monday for Spring and Spring/Summer Sessions	Fri., May 30
Mail registration for Fall Term	Mon., June 16 – Thur., July 3
Classes end for Spring Session	Mon., June 23
Study Day for Spring Session	Tues., June 24
Final Examinations for Spring Session	Wed., June 25 – Thurs., June 26
Summer Session begins	Fri., June 27
Independence Day recess	Fri., July 4
Classes end for Spring/Summer Session	Mon., July 28
Study Day for Spring/Summer Session	Tues., July 29
Final Examinations for Spring/Summer Session	Wed., July 30 – Mon., Aug. 4
Classes end for Summer Session	Fri., Aug. 15
Final Examinations for Summer Session	Mon., Aug. 18 – Tues., Aug. 19
Spring/Summer Term ends	Sat., Aug. 23, 1997

Fall Term, 1997

² University year appointments begin	Sun., Aug. 17, 1997
Term begins	Sun., Aug. 24
Final registration	Mon., Aug. 25 – Thurs., Aug. 28
Labor Day recess	Mon., Sept. 1
Classes begin	Tues., Sept. 2
Last day for filing degree applications	Tues., Sept. 2
Mail registration for Winter Term	Mon., Oct. 20 – Fri., Nov. 7
¹ Day scheduled as Thursday	Tues., Nov. 25
¹ Day scheduled as Friday	Wed., Nov. 26
Thanksgiving recess	Thurs., Nov. 27 – Sat., Nov. 29
Classes end	Wed., Dec. 10
Study Day	Thurs., Dec. 11
Final Examinations	Fri., Dec. 12 – Thurs., Dec. 18
Commencement	Thurs., Dec. 18
Holiday recess	Thurs., Dec. 25, 1997 – Thurs., Jan. 1, 1998
Term ends	Wed., Dec. 31, 1997

Winter Term, 1998

Term begins	Thurs., Jan. 1, 1998
Final registration	Mon., Jan. 5 – Thurs., Jan. 8
Classes begin	Mon., Jan. 12
Last day for filing degree applications	Mon., Jan. 12
Martin Luther King Birthday Observance (no classes)	Mon., Jan. 19
Mail registration for Spring/Summer Term	Mon., Feb. 16 – Fri., March 6
Spring recess	Mon., March 16 – Sat., March 21
Classes end	Mon., April 27
Study Day	Tues., April 28
Final Examinations	Wed., April 29 – Tues., May 5
Term ends	Tues., May 5
Commencement	Tues., May 5
² University year appointments end	Sun., May 17, 1998

¹ An equal number of class days is needed for some laboratory courses. To make up for class days lost due to the 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.

Spring/Summer Term, 1998*

Term begins	Wed., May 6, 1998
Final registration	Wed., May 6 – Thurs., May 7
Spring and Spring/Summer Classes begin	Mon., May 11
Last day for filing degree applications	Mon., May 11
Memorial Day recess	Mon., May 25
¹ Day scheduled as Monday for Spring and Spring/Summer Sessions	Fri., May 29
Mail registration for Fall Term	Mon., June 15 – Thur., July 2
Classes end for Spring Session	Fri., June 26
Study Day for Spring Session	Sat., June 27
Final Examinations for Spring Session	Mon., June 29 – Tues., June 30
Summer Session begins	Wed., July 1
Independence Day recess	Fri., July 3
Classes end for Spring/Summer Session	Fri., July 31
Study Day for Spring/Summer Session	Sat., Aug. 1
Final Examinations for Spring/Summer Session	Mon., Aug. 3 – Thurs., Aug. 6
Classes end for Summer Session	Tues., Aug. 18
Study Day for Summer Session	Wed., Aug. 19
Final Examinations for Summer Session	Thurs., Aug. 20 – Fri., Aug. 21
Spring/Summer Term ends	Mon., Aug. 24, 1998

Fall Term, 1998*

² University year appointments begin	Tues., Aug. 18, 1998
Term begins	Tues., Aug. 25
Final registration	Mon., Aug. 31 – Thurs., Sept. 3
Labor Day recess	Mon., Sept. 7
Classes begin	Tues., Sept. 8
Last day for filing degree applications	Tues., Sept. 8
Mail registration for Winter Term	Mon., Oct. 19 – Fri., Nov. 6
¹ Day scheduled as Thursday	Tues., Nov. 24
¹ Day scheduled as Friday	Wed., Nov. 25
Thanksgiving recess	Thurs., Nov. 26 – Sat., Nov. 28
Classes end	Wed., Dec. 16
Commencement	Thurs., Dec. 17
Final Examinations	Thurs., Dec. 17 – Wed., Dec. 23
Holiday recess	Fri., Dec. 25, 1998 – Fri., Jan. 1, 1999
Term ends	Thurs., Dec. 31, 1998

Winter Term, 1999*

Term begins	Fri., Jan. 1, 1999
Final registration	Mon., Jan. 4 – Thurs., Jan. 7
Classes begin	Mon., Jan. 11
Last day for filing degree applications	Mon., Jan. 11
Martin Luther King Birthday Observance (no classes)	Mon., Jan. 18
Mail registration for Spring/Summer Term	Mon., Feb. 15 – Fri., March 5
Spring recess	Mon., March 15 – Sat., March 20
Classes end	Mon., April 26
Study Day	Tues., April 27
Final Examinations	Wed., April 28 – Tues., May 4
Commencement	Tues., May 4
Term ends	Tues., May 4
² University year appointments end	Sun., May 16, 1999

* Tentative

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.

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Foreword

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 maintain its performance ranking as measured by its funded research, the quality of 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 curriculum; 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 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 186,000 living alumni. More than 117,000 of them live in the state and more than 100,000 live in the Detroit 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.
- 1956 Wayne University became Wayne State University by Act 183 of Michigan Public Acts of 1956.
- 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.

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 Expressway while the athletic and recreational facilities are mostly on the west side of the Expressway. (For maps, see pages 482 – 486.)

The School of Medicine and its affiliated teaching hospitals and clinics are located a short distance south and east of the main campus in the Detroit Medical Center. The downtown campus, with its principal building at 1400 Chrysler, provides facilities for the College of Pharmacy and Allied Health Professions. 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
- College of Lifelong Learning
- School of Medicine
- College of Nursing
- College of Pharmacy and Allied Health Professions
- 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 Vice President for Academic Affairs 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.

The College of Lifelong Learning provides, in addition to its own credit courses, extension services for the off-campus credit programs of the other colleges and schools, as well as University-wide Spring/Summer sessions. 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 the College of Lifelong Learning, the 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
African American Film Institute
Asthma and Related Lung Disorders Research Center
Bioengineering Center
Center for Academic Ethics
Center for Automotive Research
Center for Chicano-Boricua Studies
Center for Health Research
Center for International Business Education and Research
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
Humanities Center
Institute for Manufacturing Research
Institute of Chemical Toxicology
Institute of Gerontology
Institute of Maternal and Child Health
Barbara Ann Karmanos Cancer Institute
Labor Studies Center
Merrill-Palmer Institute for Family and Human Development
Michigan Small Business Development Center
C. S. Mott Center for Human Growth and Development
Race Relations Institute
Radiation Oncology Center
Skillman Center for Children

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. 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, 4165 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

Music: *National Association of Schools of Music; 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 SCIENCE 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*

Residency Programs: *Liaison Committee on Graduate Medical Education of the American Medical Association and various Residency Review Committees*

NURSING

National League for Nursing

PHARMACY and ALLIED HEALTH PROFESSIONS

Pharmacy: *American Council on Pharmaceutical Education*

Occupational Therapy: *American Occupational Therapy Association and Committee on Allied Health and Accreditation of the American Medical Association*

Physical Therapy: *American Physical Therapy Association*

Nurse Anesthesia: *American Association of Nurse Anesthetists (Council on Accreditation of Nurse Anesthesia Educational Programs)*

Radiation Therapy Technology: *Joint Review Committee on Education in Radiation Technology and Committee on Allied Health and Accreditation of the American Medical Association*

Clinical Laboratory Science: *National Accrediting Agency for Clinical Laboratory Sciences and Committee on Allied Health Education and Accreditation of the American Medical Association*

Mortuary Science: *American Board of Funeral Service Education, Inc.*

SCIENCE

Audiology and Speech-Language Pathology: *Educational Standards Board of the American Speech-Language Hearing Association*

Chemistry: *American Chemical Society*

Nutrition and Food Science (dietetics): *American Dietetics Association*

Psychology (Clinical): *American Psychological Association*

SOCIAL WORK

Council on Social Work Education

URBAN, LABOR and METROPOLITAN AFFAIRS

Urban Planning: *Planning Accreditation Board*

Equality of Opportunity

Wayne State University is an equal opportunity/affirmative action institution and is committed to a policy of non-discrimination and equal opportunity in all of its operations, employment opportunities, educational programs and related activities.

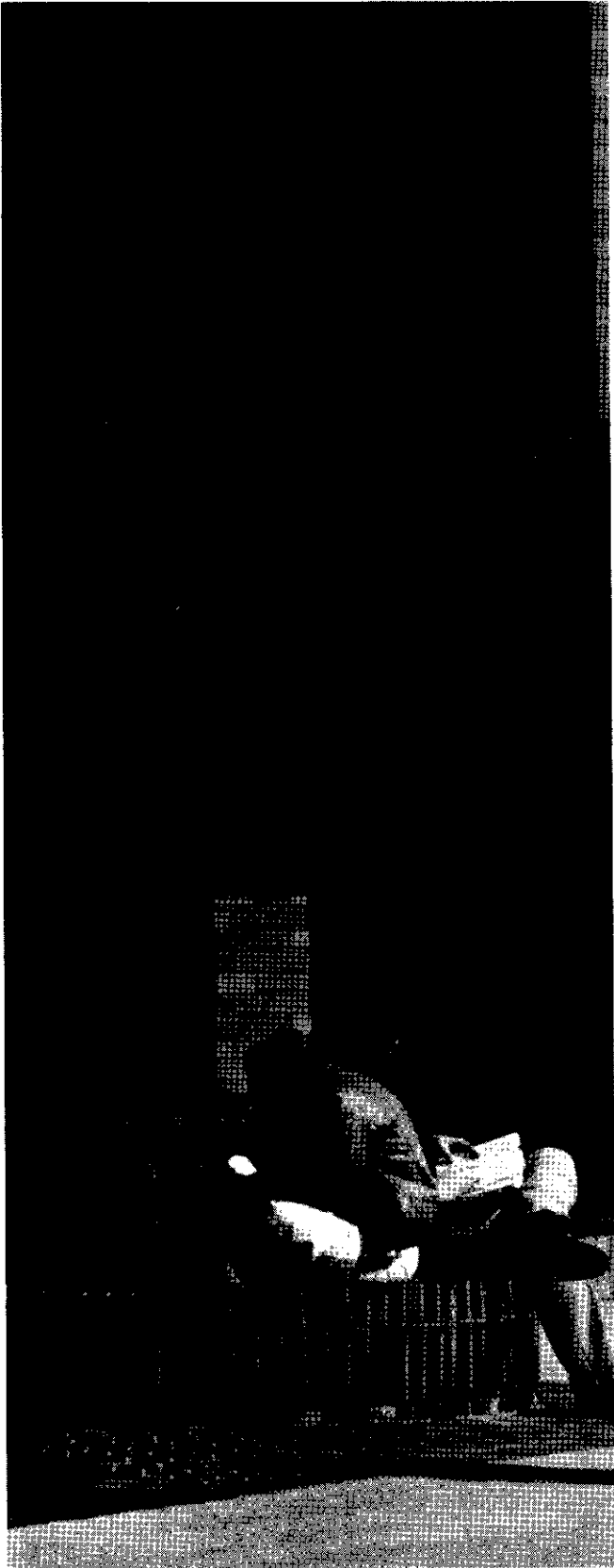
This policy embraces all persons regardless of race, color, sex, national origin, religion, age, sexual orientation, marital status or handicap, and expressly forbids sexual harassment and discrimination in hiring, terms of employment, tenure, promotion, placement and discharge of employees, admission, training and treatment of students, extra-curricular activities, the use of University services, facilities, and the awarding of contracts. This policy also forbids retaliation and/or any form of harassment against an individual as a result of filing a complaint of discrimination.

Wayne State University complies with the Titles VI and VII of the Civil Rights Act of 1964, Executive Order 11246 as Amended, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Vietnam Era Veterans Readjustment Assistance Act of 1974, and Michigan Public Act 453. Inquiries regarding equal opportunity and affirmative action policies or complaints may be directed to the Assistant Vice President for Neighborhood Relations, Office of Equal Opportunity and Neighborhood Relations, 3008 Faculty Administration Building, Wayne State University, Detroit Michigan 48202; telephone (313) 577-2280.

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 52 for description of services available to disabled students.





Academic Programs and Degrees — Symbols and Abbreviations

On the following pages are listed the major academic programs and degrees offered by Wayne State University. Academic programs are defined as any combination of courses leading to a specialization, 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. Below are abbreviations for University degrees and certificates; the columns (Roman numerals) in the table indicate degree categories.

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
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 Doctorate
LLM	Master of Laws
MA	Master of Arts
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
MM	Master of Music
MMJ	Master of Medical Jurisprudence
MPA	Master of Public Administration
MPT	Master of Physical Therapy
MS	Master of Science
MSET	Master of Science in Engineering Technology
MSLS	Master of Science in Library and Information Science
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	Teacher Certification Available in Field
<i>I</i>	<i>Baccalaureate or First Professional Degree</i>
<i>II</i>	<i>Post-Bachelor or Graduate Certificate</i>
<i>III</i>	<i>Teaching Certificate available in field</i>
<i>IV</i>	<i>Master's Degree</i>
<i>V</i>	<i>Specialist Certificate</i>
<i>VI</i>	<i>Doctoral Degree</i>

Academic Programs and Degrees

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

<i>School/College and Major</i>	<i>I</i>	<i>II</i>	<i>III</i>	<i>IV</i>	<i>V</i>	<i>VI</i>
School of Business Administration						
Accounting	BA, BS					
Business Administration	BA, BS			MBA		
Business Administration/Law	JD/MBA			JD/MBA		
Finance and Business Economics	BA, BS					
Management and Organization Sciences	BA, BS					
Management Information Systems	BA, BS					
Marketing	BA, BS					
Taxation				MST		
College of Education						
Adult and Continuing Education				MEd		
Art Education	BA, BS		TC	MEd		
Bilingual/Bicultural Education			TC	MEd		
Career and Technical Education	BA, BS		TC	MEd		EdD, PhD
Counseling				MA, MEd	ESC	EdD, PhD
Curriculum and Instruction					ESC	EdD, PhD
Elementary Education	BA, BS		TC	MAT, MEd		
English Education (Secondary)	BA, BS		TC	MEd		
Evaluation and Research, Education				MEd		EdD, PhD
Foreign Language Education			TC	MEd		
General Administration and Supervision					ESC	EdD, PhD
General Education					ESC	
Health Education			TC	MEd		
Higher Education						EdD, PhD
History and Philosophy of Education				MEd		
Instructional Technology				MEd	ESC	EdD, PhD
Leadership, Educational				MEd		
Mathematics Education	BA, BS		TC	MEd	ESC	
Physical Education	BA, BS		TC	MEd		
Physical Education (K-12)			TC			
Pre-School and Parent Education				MEd		
Psychology, Educational				MEd		EdD, PhD
Psychology, School and Community				MA		
Reading				MEd	ESC	EdD
Recreation and Park Services	BS			MA		
Rehabilitation Counseling and Community Inclusion				MA		
Science Education	BA, BS		TC	MEd		
Secondary Education				MAT		
Social Studies Education (Secondary)	BA, BS		TC	MEd		
Sociology, Educational				MEd		EdD, PhD
Special Education	BA, BS		TC	MEd	ESC	EdD, PhD
Speech Education (Secondary)	BA, BS		TC			
Sports Administration				MA		

School/College and Major

I II III IV V VI

College of Engineering

Chemical Engineering	BS			MS		PhD
Civil Engineering	BS			MS		PhD
Computer Engineering				MS		PhD
Computer Technology	BSCT					
Electrical Engineering	BS			MS		PhD
Electrical/Electronic Engineering Technology	BSET					
Electromechanical Engineering Technology	BSET					
Electronics and Computer Control Systems				MS		
Engineering Management				MS		
Engineering Technology				MSET		
Environmental Auditing		GC				
Hazardous Materials Management on Public Lands		GC				
Hazardous Waste Control		GC				
Hazardous Waste Management				MS		
Industrial Engineering	BS			MS		PhD
Manufacturing Engineering	BS			MS		
Manufacturing/Industrial Engineering Technology	BSET					
Materials Science and Engineering	BS			MS		PhD
Mechanical Engineering	BS			MS		PhD
Mechanical/Industrial Engineering Technology	BSET					
Operations Research				MS		
Polymer Engineering		GC				
Product Design	BSET					

College of Fine, Performing and Communication Arts

Art	BA, BFA			MA, MFA		
Art History	BA			MA		
Communication*	BA			MA		PhD
Dance	BA, BS		TC			
Design and Merchandising	BA, BS			MA		
Film Studies	BA					
Journalism*	BA					
Music	BA, BM		TC	MA, MM		
Orchestral Studies		GC				
Public Relations	BA					
Radio-Television-Film*	BA					
Theatre	BFA			MA, MFA		PhD

Graduate School

Alcohol and Drug Abuse Studies	GC					
Archival Administration	GC					
Developmental Disabilities	GC					
Gerontology	GC					
Infant Mental Health	GC					
Interdisciplinary						PhD
Library and Information Science				MSLS	SPL	
Molecular and Cellular Toxicology				MS		PhD
Molecular Biology and Genetics				MS		PhD

Law School

Corporate and Finance Law				LLM		
Joint JD/MA in History	JD			MA		
Joint JD/MA in Political Science	JD			MA		
Joint JD/MBA	JD			MBA		
Labor Law				LLM		
Law	JD			LLM		
Medical Jurisprudence				MMJ		
Taxation				LLM		

<i>School/College and Major</i>	<i>I</i>	<i>II</i>	<i>III</i>	<i>IV</i>	<i>V</i>	<i>VI</i>
College of Liberal Arts						
Africana Studies	BA					
American Studies	BA					
Anthropology*	BA			MA		PhD
Art History	BA			MA		
Classics*	BA			MA		
University/College Honors (Co-Major)	BA					
Comparative Literature				MA		
Criminal Justice	BS			MS, MPA		
Economics*	BA			MA		PhD
English*	BA			MA		PhD
Film Studies	BA					
French*	BA			MA		
Geography	BA					
German*	BA			MA		
History*	BA			MA		PhD
History/Law (joint JD/MA)	JD			MA		
International Studies (Co-Major Program)	BA					
Italian*	BA			MA		
Language, Modern Foreign						PhD
Linguistics	BA			MA		
Near Eastern and Asian Studies	BA					
Near Eastern Languages	BA			MA		
Philosophy*	BA			MA		PhD
Political Science	BA			MA		PhD
Political Science/Law (joint JD/MA)	JD			MA		
Public Administration				MPA		
Public Affairs	BPA					
Russian	BA					
Slavic	BA					
Sociology	BA, BAS			MA		PhD
Sociology and Anthropology	BA					
Spanish*	BA			MA		
Women's Studies (Co-Major Program)	BA					
College of Lifelong Learning						
Interdisciplinary Studies	BIS, BTIS			MIS		
Service Agency Administration		PBC				
School of Medicine						
Anatomy and Cell Biology				MS		PhD, MD/PhD
Basic Medical Science				MS		
Biochemistry and Molecular Biology				MS		PhD, MD/PhD
Cancer Biology				MS		PhD
Cellular and Clinical Neurobiology						PhD
Community Health Services				MS		
Community Health Services Research and Evaluation		GC				
Genetic Counseling				MS		
Immunology and Microbiology				MS		PhD, MD/PhD
Medical Physics						PhD
Medical Research				MS		
Medical Science, Basic				MS		
Medicine	MD					
Pathology						PhD
Pharmacology				MS		PhD, MD/PhD
Physiology				MS		PhD, MD/PhD
Psychiatry				MS		
Radiological Physics				MS		
Rehabilitation Sciences				MS		

<i>School/College and Major</i>	<i>I</i>	<i>II</i>	<i>III</i>	<i>IV</i>	<i>V</i>	<i>VI</i>
College of Nursing						
Adult Acute Care Nursing				MSN		
Adult Primary Care Nursing				MSN		
Adult Psychiatric Mental Health Nursing				MSN		
Child and Adolescent Psychiatric Nursing				MSN		
Community Health Nursing				MSN		
Neonatal Nurse Practitioner		GC				
Nursing	BSN					PhD
Nursing Administration				MSN		
Nursing Education		GC				
Nursing, Parenting and Families				MSN		
Nursing, Transcultural		GC				
College of Pharmacy and Allied Health Professions						
Allied Health Sciences	BSAHS					
Anesthesia				MS		
Clinical Laboratory Science	BS			MS		
Health Systems Pharmacy Management				MS		
Mortuary Science	BSMS					
Occupational and Environmental Health Sciences				MS		
Occupational Therapy	BS			MS		
Pathologist Assistant	BS					
Pharmaceutical Sciences				MS		PhD
Pharmacy	BS, PharmD					
Physical Therapy				MPT		
Physician Assistant Studies				MS		
Radiation Therapy Technology	BS					
College of Science						
Audiology				MS		
Biological Sciences*	BA, BS			MS		PhD
Chemistry*	BA, BS			MA, MS		PhD
College Honors (Co-Major)	BA					
Computer Science*	BA, BS	PBC		MA, MS		PhD
Dietetics	BS					
Geology	BA, BS			MS		
Information Systems	BA					
Linguistics	BA			MA		
Mathematical Statistics				MA		
Mathematics*	BA, BS			MA, MS		PhD
Mathematics, Applied				MA		
Molecular Biotechnology				MS		
Nutrition and Food Science*	BA, BS			MA, MS		PhD
Physics	BA, BS			MA, MS		PhD
Psychology	BA, BS			MA		
Psychology: Human Development	BA			MA		
Speech-Language Pathology	BA			MA		PhD
Statistics, Mathematical				MA		
School of Social Work						
Social Work	BSW			MSW		
Social Work Practice with Families & Couples		GC				
College of Urban, Labor, and Metropolitan Affairs						
Chicano-Boricua Studies (Co-Major Program)	BA					
Dispute Resolution		GC		MA		
Economic Development		GC				
Geography				MA		
Industrial Relations				MAIR		
Labor Studies	BA					
Peace and Conflict Studies (Co-Major Program)	BA					
Urban Planning				MUP		
Urban Studies (Co-Major Program)	BA					

UNDERGRADUATE ADMISSION

The Office of University Admissions is located on 3 East, Helen Newberry Joy Student Services Center, Wayne State University, Detroit, Michigan 48202. Admissions counselors are available for personal conferences to aid the prospective student. Telephone: (313) 577-3577.

College of Lifelong Learning (CLL): Undergraduate admission to degree programs and other programs offered by the College of Lifelong Learning, including the Interdisciplinary Studies Program and the Community Education Program, is governed by procedures of that College. See the College of Lifelong Learning section of this bulletin for details, pages 312 - 322.

Application

An official *Application for Undergraduate Admission* with a \$20.00 non-refundable application fee must be filed in the Office of Admissions before any consideration regarding admissibility can begin. The application form may be secured from the Office of Admissions. High school students in Michigan can secure an application from their high school counselor. Michigan community college students may obtain an application at their community college.

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

When to Apply for Admission

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 presently 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 American College Test (ACT) standard composite score of at least 21 or Scholastic Aptitude Test (SAT) scores of at least 530 Verbal and 440 Mathematics are achieved.

Transfer students who have completed at least thirty transferrable hours of college work (thirty semester credits or forty-five 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 an academic year of credit with a 'C' average at another institution, the high school record will be used as an additional factor in determining admissibility.

Project 350: Special admissions criteria and procedures apply under this program. Contact the special counselor in the Office of University Admissions for information. See also descriptive information under Special Student Service Programs, page 54.

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 life and 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, economics, 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.

Transfer Admission

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

(a) Completion of at least a year of college work (thirty semester credits or forty-five 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 admissions counselor to determine admissibility.

(c) For those students who have completed less than an academic year of credit with a 'C' average at another institution, the high school record will be used as an additional factor in determining admissibility.

2. If an applicant has at least a 2.0 grade point average from both high school and college but lacks the completion of thirty hours of transferable credit, he/she may elect to take either the **Scholastic Aptitude Test (SAT)** or the **American College Test (ACT)**. Minimum scores on the SAT of at least 530 Verbal and 440 Mathematics, or a composite score on the ACT of at least 21, are required. Examination scores are not to be construed as an adequate substitute for good achievement in course work.

Transfer of Undergraduate Credits

Wayne State University policy governing transfer credit from all accredited institutions of higher education will be applied equally to students transferring from community colleges and from baccalaureate-granting colleges and universities. With the exception of a credit-hour acceptance limit on non-baccalaureate-granting institutions (which basically have programs whose extent is not designed to replicate more than the first two years of traditional baccalaureate institutions), transfer credit policy will apply equally to all transfer students, regardless of whether or not such students have completed requirements for a two- or four-year college degree.

General Rules Concerning Transfer of Credit: Wayne State University will accept equivalent academic credit from accredited baccalaureate-granting institutions, and up to sixty-four semester credit hours from accredited institutions which offer Associate Degrees. 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.

Transfer of Credit from Institutions NOT Accredited by a Regional Accrediting Agency: Wayne State University may accept for transfer those credits for which a grade of 'A' or 'B' was earned from those institutions with candidacy status from a regional accrediting agency; or 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 traditional academic nature.

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 cognate or 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 credit 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' in fulfillment of major program requirements will follow the current policy governing acceptance of 'D' grade credits earned by native students.) No transfer grades apply in computing Wayne State honor 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 sixty 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 theory, 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 General 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 General 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 the University Counseling Services.

For information on credit by Special Examination, see page 42.

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 99; *Engineering* — pages 124 – 126; *Engineering Technology* — page 156; *Lifelong Learning* — pages 314, 318; *Nursing* — page 333; *Pharmacy and Allied Health Professions* — pages 347 – 349 and 361; *Social Work* — pages 449 – 451.

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 honor point average at Wayne State). Please contact the Admissions Office for further details and regulations regarding this status.

Visitor's Program

The Visitor's 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 and is processed by the College of Lifelong Learning's Noncredit Programs unit, located on the main campus. Students may also register by mail or telephone, using MasterCard or Visa credit card, by calling the Noncredit Programs unit at (313) 577-4665.

Post-Bachelor Admission

Holders of bachelor's degrees from accredited institutions who wish to elect only courses open to undergraduate students (numbered below 700) 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 Admissions or Registrar's Office for other regulations regarding this status.

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 \$30.00 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 non-English speaking country 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. Arrangements should be made through the Office of University Admissions. 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 if the student left in good standing, he/she report to the college of his/her choice for any special instructions regarding his/her return to classes. A copy of the student's last cumulative record should be obtained from the Records Office before meeting with college officials.

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 not have 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, the student 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 from the time the first course is taken under the Phoenix Program. The student will be expected to complete degree requirements in effect at the time of his/her return to the University. Should the student earn any grade below 'C' in his/her first twelve credits in the Phoenix Program, the student will be excluded from the University. To maintain the integrity of the student's academic record, previous work will remain on the transcript; however, the credits and honor point average (h.p.a.) will be adjusted to reflect the honor 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 the student is matriculated or seeks 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.

Undergraduate Tuition and Fees

Freshmen and Sophomores:

Resident Registration Fee plus \$105.00 per credit.

Non-Resident Registration Fee plus \$234.00 per credit.

Juniors, Seniors and Post-Bachelors:

Resident Registration Fee plus \$124.00 per credit.

Non-Resident Registration Fee plus \$278.00 per credit.

Student Fees

Application Fees: Applications for admission to any undergraduate, graduate or professional program must be accompanied by a \$20.00 non-refundable application fee. The non-refundable application fee for *international students* is \$30.00. There is no application fee 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 \$25.00 for the processing of the secondary application.

Registration Fee: There is a non-refundable registration fee, except that students enrolled in the Visitor's Program shall pay a \$34.00 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 a \$30.00 non-refundable late registration fee.

Late Payment Fees: A \$25.00 late payment fee is assessed students who do not pay the balance of their term tuition and fee assessments by the end of the first week of classes, or who do not make payment at the time when classes are added after the first week of classes. A second \$25.00 late payment fee is assessed students who have not satisfied their tuition and fee assessments by the end of the eighth week of classes.

Add Processing Fee: A \$10.00 add processing fee is assessed students who increase credit hours after the first week of classes.

Course Material and Breakage Fees: Breakage fees and/or 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. Only in unusual circumstances, and only with the direct approval of the President, may fees exceed \$30.00 in any course.

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 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 Fee: There is a \$3.00 fee for an official transcript issued directly to the student, a \$2.00 fee for one that is mailed, and a \$1.00 fee for an unofficial transcript.

Duplicate I.D. Fee: There is a fee of fifty cents for a duplicate student identification card.

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

Half-locker, lock, and towel exchange \$13.00
Full locker, lock, and towel exchange 18.00

Bowling Fee: Students electing a course in bowling must pay a \$20.00 fee for bowling lane rental. 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 and Visa Cards are accepted for tuition payments only. 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 first two weeks of classes are financially obligated to pay for the courses even if they have not attended any class sessions.

Sponsored Tuition Programs

If a student's employer participates in direct tuition billing as part of an employee benefits program, the student may be eligible to present a Minimum Tuition Deposit Deferral Form in lieu of payment at registration. Contact the Student Accounts Receivable Office for further information: 577-6837.

Mail Registration

Payment of the non-refundable registration fee is required at the time of submission of the Mail Registration Schedule Request form. Students receiving financial assistance may submit a Tuition and Fee Deferral form for the required amount. The balance of term tuition and fee assessment is due at the end of the first week of classes. A \$25.00 Late Payment Fee is assessed any student who has not paid his/her tuition and fee assessment by the end of the first week of classes.

Final Registration

Payment of the applicable registration deposit (which includes the non-refundable registration fee) is required at the time of registration. Students receiving financial assistance may submit a Tuition and Fee Deferral form for the required amount. The balance of term tuition and fee assessment is due at the end of the first week of classes. A \$25.00 Late Payment Fee is assessed any student who has not paid his/her full tuition and fee assessment by the end of the first week of classes.

Late Registration

During the first week of classes, payment of the applicable registration deposit (which includes the non-refundable Registration Fee and the non-refundable \$30.00 Late Registration Fee) is required at the time of registration. Students receiving financial assistance may submit a Tuition and Fee Deferral form for the required amount. The balance of

the term tuition and fee assessment is due at the end of the first week of classes. A \$25.00 Late Payment Fee is assessed any student who has not paid his/her full tuition and fee assessment by the end of the first week of classes.

Registration is not permitted beyond the first 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. The University reserves the right to cancel any course.

Short-Term Courses: Payment of full tuition and the non-refundable Registration Fee is required on the date of registration or no later than the first class meeting date. A \$25.00 Late Payment Fee is assessed any student who has not paid his/her tuition and fee assessment by the due date.

Late Payment Fee: A \$25.00 Late Payment Fee is assessed students enrolled in courses meeting fifteen weeks or more who have a tuition and fee balance after the first week of classes. After the eighth week of classes, an additional \$25.00 Late Payment Fee is assessed.

Holds

Holds and Admission Status: 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 thereby be 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.

Holds for Indebtedness: 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.

Holds and Academic Probation: See 'Undergraduate Academic Probation,' page 42.

Notification of Holds: For further information on Holds as they affect mail registration and final registration, see the section on 'Registration,' beginning on page 40.

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 nontemporary. 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; or
- (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.
- (f) 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.

7. Where a general guardian has been appointed by the state of the ward's domicile, at the time of appointment the ward's domicile presumption remains in that state. The appointment by a Michigan court of a resident guardian of a minor not domiciled in this state at the time of appointment has no effect upon the domicile of the ward.

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.

Transcript Request Policy

Official transcripts bear the seal of the University and the signature of the Registrar and cost \$2.00 when sent via the U.S. Postal Service. An additional \$1.00 (\$3.00 total) is charged for an official transcript issued directly to the student. Unofficial transcripts can be obtained for \$1.00; however they do not bear the University seal or the signature of the Registrar. Unofficial transcripts are normally used for advising purposes.

Transcript tickets can be purchased at the Cashier's Office or at the ticket dispensing machines in the lobby of the Helen Newberry Joy Student Services Center, and on the second floor of the Student Center. The tickets must be submitted with the Transcript Request Form.

A transcript may be requested in person or by mail. The University will not honor telephone requests for transcripts. To request a transcript in person, the student must file a transcript request form and a transcript ticket for the appropriate fee at Student Services and Information Systems, 1 West, Helen Newberry Joy Students Services Center. Requests by mail should be addressed to: Student Services and Information Systems, Attn: Transcripts, 1 West, Helen Newberry Joy Student Services Center, Wayne State University, Detroit, Michigan 48202-3412; and should include a check or money order for the appropriate amount payable to Wayne State University. 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.

Tuition Cancellation/Refund

Tuition, *not including the Registration Fee*, may be cancelled in accordance with the following schedule when students officially withdraw from classes by submitting a properly-completed Drop/Add form or by sending a certified letter to the Registration and Scheduling Office, 2 West, Helen Newberry Joy Student Services Center. A certified letter of withdrawal sent through the U.S. Postal Service shall be considered effective on the date of the postal cancellation.

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

Classes meeting fewer than four weeks: 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.

Classes meeting four to eight weeks: 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 nine to fifteen weeks: 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

University *Schedule of Classes* for the appropriate term for specific dates.)

Classes meeting sixteen to twenty-seven weeks: 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 twenty-eight or more weeks: Students who officially withdraw from scheduled classes before the seventh week of classes are entitled to a 100% tuition cancellation and 0% thereafter.

Dropping and Adding Courses: Students who drop and add courses simultaneously after the 100% tuition cancellation period are assessed tuition for the credit hours added that are in excess of the credit hours dropped. If the credit hours dropped exceed the credit hours added, the student is not entitled to any tuition cancellation. This practice is referred to as an 'even exchange.'

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 the Registration and Scheduling Office.

Class Ranking

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

Freshman 0 to 29 credits, inclusive

Sophomore 30 to 59 credits, inclusive

Junior 60 to 89 credits, inclusive

Senior 90 credits or above

School of Business Administration

Freshman 0 to 31 credits, inclusive

Sophomore 32 to 63 credits, inclusive

Junior 64 to 95 credits, inclusive

Senior 96 credits or above

College of Education

Freshman 0 to 30 credits, inclusive

Sophomore 31 to 61 credits, inclusive

Junior 62 to 93 credits, inclusive

Senior 94 credits or above

College of Pharmacy and Allied Health Professions — Faculty of Pharmacy: For purposes of Faculty of Pharmacy ranking, in addition to degree credits earned, consideration is also given to particular professional courses still to be completed.

OFFICE of SCHOLARSHIPS and FINANCIAL AID

3 West, Helen Newberry Joy Student Services Center; 577-3378

The Office of Scholarships and Financial Aid assists students and parents in meeting their educational expenses. These expenses include tuition, fees, books, supplies, room, board and transportation. The Office administers federal, state and institutional sources, based both on financial need and academic performance. Financial aid counselors are available to assist students by appointment, on a walk-in basis, or by telephone.

Financial need is the difference between the cost of attendance minus the family contribution. The student's financial need is determined by an analysis of the financial statement and a standardized formula

known as the Federal Methodology. Special circumstances of the individual applicant are considered on a case-by-case basis.

Undergraduate and graduate students are encouraged to apply for financial assistance by the deadline of May 1. The Free Application for Federal Student Aid (FAFSA) is required to determine the student's eligibility for financial assistance. Applicants may be required to verify the information provided on the financial statement before aid is awarded.

There are four basic types of financial aid: scholarships, grants, loans, and employment. These types of aid are offered to the student either as a single fund or a financial aid package consisting of a combination of awards. The total amount of financial aid a student can receive can never exceed the demonstrated financial need, based on analysis of the financial statement. To retain eligibility for aid funds, the student must continue to make satisfactory academic progress toward a degree.

Booklet: Potential applicants should contact the Office of Scholarships and Financial Aid for a more complete listing of available scholarship awards, 'Unlocking the Door to Your Future: Scholarships at Wayne State University.'

Air Force ROTC Scholarships: The Air Force offers financial assistance on a competitive basis to students interested in completing the AFROTC program and entering the Air Force as second lieutenants after graduation. Scholarships are available for periods of two to three and one-half years. Scholarships pay full tuition and fees, a book allowance, and a \$100 per month stipend while in school. Wayne State students receive AFROTC training on the University of Michigan campus. For information, call the AFROTC recruiter at (313) 747-4093.

Fulbright Grants for graduate study abroad are available in some ninety countries in all disciplines. These grants provide for transportation and living expenses for an academic year. Graduating seniors should apply no later than October 15 of the year preceding planned departure. For further information and application forms, contact the Fulbright Program Adviser, Penrith Goff, Department of German and Slavic Languages and Literatures.

Standards of Satisfactory Academic Progress

Federal regulations require institutions eligible to participate in federal financial aid programs to define and enforce satisfactory academic progress standards for students receiving federal assistance. The standards assure completion of degree or certificate objectives within an established time frame. The federally established time limit sets an *upper limit* on the period of time for which a student may receive federal financial aid. The Wayne State University standards of satisfactory academic progress govern all federal and state financial aid programs and Board of Governors scholarships and grants.

Federal regulations establish the *maximum* time frame in which a student must complete his or her educational program as 150 per cent of the published length of the educational program. (*Note:* For information concerning the length of the program in which he or she is enrolled, a student should refer to the appropriate school/college and department section of this Bulletin, or consult an academic adviser.)

To receive financial aid, otherwise eligible students must maintain satisfactory academic progress toward a degree or certificate. *Students must complete two-thirds of their attempted credit hours (credits) each academic year and maintain at least a 2.0 cumulative honor point average (h.p.a.).*

Students with unsatisfactory academic progress must attain a cumulative 2.0 h.p.a. before they regain their eligibility for financial aid. (*Note:* Graduate students, law students, and medical students should consult their academic advisers about the minimum acceptable cumulative h.p.a. for their programs.)

Students cannot receive financial aid retroactively for the academic period in which they re-establish satisfactory academic progress.

Students are ineligible for further financial assistance when the cumulative total number of credit hours (credits) they attempt is equal to or greater than 150 percent of the *minimum* credits their major requires for graduation. Attempted hours include:

- (1) Earned Hours (Credits): (A–D, Pass (P), Satisfactory (S))
- (2) Not Passed (N), Unsatisfactory (U)
- (3) Repeated Hours (Credits) (R)
- (4) Official Withdrawal (W)
- (5) Failure (E)
- (6) Incomplete (I)
- (7) No Grade Reported (X)
- (8) Deferred Grade (Y)
- (9) Audit (Z)
- (10) Transfer Credit.

Students failing to meet the required academic progress standards may appeal, under special circumstances, for financial aid reinstatement. Students should contact the Office of Scholarships and Financial Aid (OSFA) for appeal forms and procedures. Circumstances OSFA may consider a basis for appeal include death of a relative, illness or injury, or other serious undue hardship.

Refunds — First-Time Students: Pursuant to the Higher Education Act of 1992, the University utilizes the pro rata refund policy for first-time students who receive financial aid and withdraw on or before the sixty per cent point of the enrollment period. Questions regarding this policy should be directed to the OSFA.

Financial Assistance Available through Schools and Colleges, Programs, and Departments

Consult the individual school, college, program, and department sections of this Bulletin for financial aid available to undergraduate students in their specific disciplines. In addition, Offices of Deans, Directors, and Department Chairpersons may provide further information on institutional and departmental aid and awards.

Financial Assistance Available through the Office of Scholarships and Financial Aid

Information about the programs listed below may be obtained by contacting the Office of Scholarships and Financial Aid (OSFA), 3 West, Helen Newberry Joy Student Services Center (577-3378):

University Scholarships and Awards: The University has a wide range of private scholarship and loan funds that are awarded on the record of academic performance and financial need. The Wayne State *Application for Private Scholarships* is available from the Office of Scholarships and Financial Aid. The student applicant for private scholarships is also required to submit two letters of recommendation and previous high school and/or college transcripts for award consideration. The application deadline for private University scholarships is April 29.

Private Donors' Funds: Many private donors have established funds to assist Wayne State students in their pursuit of higher education. Funds often have specific requirements related to a student's major academic area, enrollment status, and honor point average. Scholarships available from these funds are listed below.

NOTE: The *Application for Private Scholarships* is required for all scholarship awards through OSFA. (Separate address given below when application is to be made elsewhere.) *Application deadline* for all OSFA scholarships is *April 29*. (Different or additional requirements are stated where applicable.)

Ralph and Grace Ainsworth Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Alumni Association Annual Scholarship: Amount depends on funds available; open to full-time undergraduate student, sophomore

status or above, maintaining a minimum 2.7 h.p.a. and demonstrating financial need.

Arab-American Endowed Scholarship: Amount depends on funds available; open to full- or part-time student who has at least one parent of Arab descent; application must include written statement demonstrating student's interest in Arabic culture. Recipients selected on basis of scholastic achievement, desirable qualities of character and leadership, and financial need.

Dr. C. Gary Artinian Scholarship: Varying amounts, depending on funds available, open only to students engaged in full-time study at Wayne State. Students accepted for full-time study may apply. Recipients selected on the bases of scholastic achievement, qualities of leadership, and financial need.

Michael W. Assarian Scholarship: Amount depends on funds available; open to full-time undergraduate student of Armenian descent maintaining a minimum 3.0 h.p.a.

Howard Baker Foundation General Scholarship: Award of full-time (twelve credits) undergraduate tuition and books for at least two years, open only to undergraduate minority students at Wayne State. Students must be accepted for full-time study, or currently enrolled part-time, to apply.

Barba Family Scholarship: Amount depends on funds available; open to full-time student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Board of Governors Scholarship: Amount depends on funds available; open to undergraduate student attending at least part-time, maintaining a minimum 3.0 h.p.a., and demonstrating financial need by filing the *Free Application for Federal Student Aid (FAFSA)*.

Abraham Borman Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a.

Warren E. Bow Memorial Scholarship: Amount depends on funds available; open to full-time freshman student, who is a graduate of a Detroit high school, maintaining a minimum 3.0 h.p.a.

Samuel and Mollie Burtman Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Sol Nathan Cohen Memorial Scholarship: Amount depends on funds available; open to full-time undergraduate student majoring in the fine and performing arts, maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Edward Connor Memorial Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Albert C. Dames Trust Scholarship: Two \$2500 scholarships open to any full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Gilbert R. and Patricia K. Davis General Endowed Scholarship: Varying amounts, depending on funds available, open to students who are enrolled at least part-time in a degree program. Applicants must be Michigan residents who have completed at least fifteen credits in Wayne State course work. Recipients are selected on the bases of scholastic achievement (a minimum 3.0 h.p.a. is required) and merit. This award is renewable provided recipients maintain at least a 3.0 h.p.a. at the end of each academic year and continue to meet other stated criteria. This scholarship may be used for tuition, fees, and books.

Mattel 'Mat' Dawson Jr. Endowed Multi-Year Scholarship: Amounts vary depending on available funds. Open only to undergraduate students enrolled full-time. Students accepted for study in a full-time undergraduate curriculum may apply. This award is given during the fall and winter semesters of the academic year. Recipients are selected on the bases of financial need, scholastic achievement (a minimum 2.7 h.p.a. is required) and qualities of

leadership. Recipients may retain this award each year for four years provided they meet the criteria. This scholarship must be used for tuition and other educational expenses.

Dayton-Hudson Scholarship Endowment Fund: Awards of various amounts, depending on funds available, open to students who maintain a minimum h.p.a. of 2.5.

Detroit High School Students Endowed Scholarship Fund: Awards of varying amounts, depending on funds available, for Detroit high school students who plan to attend Wayne State University on a Full- or part-time basis. Recipients are selected on the bases of scholastic potential, qualities of leadership, and financial need. Recognition is given to recipients at an annual scholarship event held to benefit the Detroit High School Students Endowment. By signing the Wayne State University Private Scholarships Application, recipients authorize the University to communicate their names and scholastic standing to the Wayne State Organization of Black Alumni.

Eben L. Dunn Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a.

Herman and Perry Felgenson Scholarship: Amount depends on funds available; open to full-time undergraduate student majoring in Liberal Arts, maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Alice and Henry Feldman Scholarship: Amount depends on funds available (minimum award \$150); open to full-time undergraduate student maintaining a minimum 3.0 h.p.a.

Dorothy L. Fisher General Endowed Scholarship: Tuition award for a minimum of twelve credits per semester for two semesters, open to full-time undergraduate students. Students accepted for full-time undergraduate study at Wayne State may apply. Recipients are selected on the basis of financial need, with preference given to students who attended the Dorothy L. Fisher Middle School. Documentation of attendance at the school (academic transcript) must be attached to the Wayne State University Private Scholarships Application. Recipients must have a minimum cumulative 2.5 h.p.a. at the time of selection. This award is renewable for four years provided recipients maintain full-time enrollment, a minimum 2.75 h.p.a. at the end of each academic year, and satisfactory progress toward their degree.

Ford EEOC Scholarship: Amount depends on funds available; open to any minority or female student who is either a Ford Motor Company employee, or a spouse or child of a Ford Motor Company employee; certification of Ford employment required.

Douglas and Winifred Fraser Chrysler Workers Scholarship: Full tuition award open to any full-time student whose parent, legal guardian or spouse has worked for Chrysler Corporation within the past year and has belonged to the United Auto Workers (UAW) for at least five years. Student must submit letter of certification from the union local, and have maintained a minimum 3.0 h.p.a. Application deadline is August 1.

Berry and Bertha Gordy Endowed Scholarship: Tuition award up to \$2000 per year, open to any Project 350 sophomore or junior student attending Wayne State full time, maintaining a minimum 3.0 h.p.a. and demonstrating financial need. A written statement is required from the student on his/her Project 350 experience. Application deadline is July 31; contact: Office of Special Student Services Programs, 1 East, Helen Newberry Joy Student Services Center; 577-5050.

Gerald and Glenda Greenwall Endowed General Scholarship Fund: Awards full tuition to one undergraduate student. Applications are accepted from Wayne State University students enrolled full-time or part-time, or from students accepted for study at Wayne State. The recipient is selected on the bases of scholastic achievement and financial need. This scholarship is renewable for four years provided the recipient maintains a minimum 2.5 h.p.a. and demonstrated continued financial need.

Alan Jay Guttenberg Memorial Scholarship: Amount depends on funds available; open to full-time freshman student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Wilhelmina Harrison Memorial Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Helen Eugenia Hart General Scholarship Fund: Awards of varying amounts, dependent on funds available; limited to undergraduate students. Applications are accepted from Wayne State students enrolled full- or part-time or from students accepted for study at Wayne State. Recipients are selected on the bases of scholastic achievement, qualities of leadership, and financial need. This award is renewable, provided recipients have a 3.0 h.p.a. at the end of each consecutive academic year.

Mildred James Hulme Memorial Endowed Scholarship Fund: Awards of varying amounts, dependent on funds available, that are limited to students enrolled full-time at Wayne State, or who are accepted for full-time enrollment at Wayne State. Recipients are selected on the bases of scholastic achievement, desirable qualities of character and leadership, and financial need.

Margaret Humbarger Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Dauris G. Jackson Endowed Scholarship Fund: Awards of various amounts, depending on funds available, that are limited to undergraduate students enrolled full- or part-time at Wayne State, have completed at least one full semester at WSU, and reside in the city of Detroit. Students must submit two references attesting to their qualities of character and leadership. Recipients are selected on the bases of academic potential, desirable qualities of character and leadership, and financial need.

Mildred Jeffrey Endowed Scholarship Fund: Awards of varying amounts, dependent on funds available, that are limited to undergraduate students. Students accepted for study at Wayne State may apply. Recipient selection is based on scholastic achievement or promise, desirable qualities of character and leadership, and financial need.

Howard and Mary Kehrl Endowed Scholarship Fund: An award of full tuition (recipients are responsible for fees, laboratory expenses, room, board, and other education-related expenses) that is limited to undergraduate students enrolled full-time who have the intention of majoring in science or engineering. Recipients must be residents of Michigan and have a minimum 3.0 h.p.a. Recipients are selected on the bases of scholastic achievement and financial need. This scholarship is awarded for four consecutive years. A fifth-year award is an option decided by the Office of Scholarships and Financial Aid. Recipients must continue to meet the stated criteria each year.

Michael P. LaGatella Memorial Scholarship: An award of \$1,000 is given to promote a positive gay/lesbian identity, to encourage continued academic progress, and to assist in financing higher education for gay/lesbian or other supportive individuals attending Wayne State University. An interview with the Michael P. LaGatella Scholarship Committee may be required. Financial need and honor point average are considered in making the award. Application for Federal Student Aid (FAFSA). Please contact the Michael P. LaGatella Memorial Scholarship Committee, 701 W. Bethune, Detroit, MI 48202, for further information.

Ernie and Mary Lofton Endowed Scholarship Fund: Awards of tuition, fees, and books; limited to undergraduate students enrolled in a degree program full-time. At least one scholarship per academic year is available. The award recipient must meet the following criteria: (a) He or she must have been represented by the UAW for at least five years, and those years must not have ended more than one year prior to his or her commencement of full-time studies; and (b) he or she must be retired pursuant to the terms of any UAW-negotiated retirement plan or program, or (c) he or she must be a spouse or a

surviving spouse of an employee or a retiree described under (a) or (b) above; or (d) he or she must be a dependent or child of an employee or a retiree described under (a) or (b) above.

If more than one student is eligible for this award in an academic year, more than one scholarship recipient may be selected on the *additional* basis of financial need or demonstrated scholastic ability or another criterion that is consistent with the purpose of providing UAW—represented employees the best possible opportunity for higher education.

Alvin Macauley Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

David Mackenzie Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Hans A. Matthias Scholarship: Award of \$500, open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

McGregor–Perring Scholarship: Award of \$1000, open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Metro Detroit Rehabilitation Association—Fred Howes Scholarship: Amount depends on funds available; open to students with a disability, or enrolled in a field of study related to disabilities; student must maintain a minimum 3.0 h.p.a.

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 h.p.a., be a United States citizen, and demonstrate financial need.

Louise Tuller Miller Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Theodora Morales Scholarship: Amount depends on funds available; open to full-time undergraduate student of Hispanic descent maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Pontiac Central High School Scholarship: Amount depends on funds available; open to any full-time student who is a graduate of Pontiac Central High School; contact Pontiac Central High School for details.

William Rettenmeier Scholarship—Sheetmetal Workers Local 80: Outside agency scholarship affiliated with Wayne State University; contact: Sheetmetal Workers Local 80, 17255 W. Ten Mile Road., Southfield, MI 48075. Amount depends on funds available; open to any full-time student who is a Local 80 member; preference given to those pursuing engineering studies.

Edmund Ruffin Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Schlumberger Foundation Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Anna Schumaker Memorial Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Henry M. Seldon Memorial Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Mabel Muriel Smith Scholarship: Amount depends on funds available; open to freshman student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

The 'Boys' of Lieutenant Al Staub Chapter No. 751 AZA Annual Scholarship Fund: Award of financial assistance for four years when 3.0 minimum h.p.a. is maintained. Awarded to Detroit Central High School senior graduate enrolled full time at Wayne State who demonstrates leadership potential and scholastic achievement.

Elliott Dov Strom Endowed Memorial Scholarship: Awards of varying amounts (typically at least one award of \$700 per academic year), depending on funds available. Open only to students enrolled full-time who are majoring in the sciences at Wayne State University. Recipients are selected on the basis of financial need. Once selected, students will receive the award every year until they graduate.

Homer D. Strong Scholarship: Award of varying amounts, depending on funds available; open only to full-time students of Wayne State. Students accepted for study at Wayne State may apply. Recipients are selected on the bases of scholastic achievement, qualities of leadership, and financial need.

Joseph Tamosunas Scholarship: Amount depends on funds available; open to any full- or part-time student of Lithuanian descent; final selection made by the Lithuanian Committee.

Margaret Teal Award: Amount depends on funds available; open to any full-time student majoring in science and maintaining a minimum 3.0 h.p.a.

Edna Smiley Tudor Scholarship: Amount depends on funds available; open to female students age 35 or over returning to complete their education, and who have a 3.0 h.p.a. Selection based on achievement and financial need.

Mae M. Watterson General Scholarship: Award of varying amounts, depending on funds available, limited to students enrolled full- or part-time. Recipients are selected on the bases of qualities of leadership and financial need. This scholarship must be used for tuition. Provided they meet the stated criteria, recipients may re-apply for this award each year.

Wayne State Fund Scholarship: Amount depends on funds available; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Wayne State University Presidential Scholarship 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. Award for high school graduates: tuition for eight semesters maximum (thirty-two credits per academic school year); award for Michigan community college graduates: tuition for four semesters maximum (thirty-two credits per academic school year). High school graduates' eligibility: minimum 3.5 grade point average, SAT score of 870/ACT score of 22; application deadline is February 14. Michigan community college graduates' eligibility: earned Associate Degree with minimum 3.75 honor point average; application deadline is May 1. Contact: University Admissions Office, 3 East, Helen Newberry Joy Student Services Center; 577-3577.

Millicent Agatha Willis Scholarship: Award of \$500 open to any full-time freshman minority student who is a graduate of a Detroit Public High School, maintaining a 3.0 h.p.a. and demonstrating financial need.

Women of Wayne Alumni Loan Fund: Makes loans available to qualified female students at Wayne State. Contact the Women's Resource Center for further information.

Women of Wayne Incentive Scholarship Program for Part-Time Students: Amount depends on funds available; open to any part-time female student maintaining a minimum 3.0 h.p.a. and demonstrating financial need. Contact: Women's Resource Center, 575 Student Center; 577-4103.

Samuel H. Zelby Memorial Scholarship: Award of one semester full tuition; open to full-time undergraduate student maintaining a minimum 3.0 h.p.a. and demonstrating financial need.

Scholarships and Awards Available through the Division of Student Affairs

ATHLETICS, INTRAMURALS, and RECREATION

Athletic Office, Matthaei Physical Education Center, 5101 John Lodge Service Drive; 577-4250

Bob Brennan Endowed Football Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of football; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Dr. Nick Cherup Endowed Football Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of football; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Crosky Family Endowed All Sport Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in any varsity sport offered; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Mel DeGrazia Endowed Football Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of football; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Joe Gembis Endowed Football Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of football; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Pat Kent Endowed Softball Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of softball; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Rodney Kropf Endowed Football Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of football; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Joel Mason Endowed Men's Basketball Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of men's basketball; candidates recommended by Department of Athletics, Intramurals, and Recreation.

David Mendelson Endowed Golf Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic

financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of golf; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Chuck Peters Endowed Men's Basketball Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of men's basketball; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Dr. Steve Plomaritis Endowed Football Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of football; candidates recommended by Department of Athletics, Intramurals, and Recreation.

President's Endowed All Sport Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in any varsity sport offered; candidates recommended by Department of Athletics, Intramurals, and Recreation.

George B. Sherman Endowed All Sport Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in any varsity sport offered; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Jean Ann Stanicek Endowed Women's Tennis Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of women's tennis; candidates recommended by Department of Athletics, Intramurals, and Recreation.

David & Lois Stulberg Endowed Football Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of football; candidates recommended by Department of Athletics, Intramurals, and Recreation.

Tartar Gridiron Club Endowed Football Scholarship: Amount depends on funds available; open to any full-time student who meets all National Collegiate Athletic Association (NCAA) and Wayne State athletic financial aid and academic requirements; recipient must also demonstrate exceptional abilities in the sport of football; candidates recommended by Department of Athletics, Intramurals, and Recreation.

HANDICAPPER EDUCATIONAL SERVICES

583 Student Center; 577-1851

Vera Brown Endowment Fund: Amount depends on funds available; open to any blind student demonstrating financial need in pursuit of his/her educational goals.

Robert O. Cork Scholarship: Amount depends on funds available; open to any full-time handicapped student with minimum 3.0 h.p.a. demonstrating financial need. Application deadline is April 30.

Roger Alan Rogan Memorial Fund: Amount depends on funds available; open to full-time disabled students experiencing emergency or other unusual circumstances.

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 honor 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 the Student Services and Information Systems Office 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. (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.

Provided below is a full description of the University-wide Program in General Education. All undergraduate students must meet the specified requirements in accordance with the following Implementation Schedule, and should consult an academic adviser to assist in planning an appropriate program.

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 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.

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

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*.

AI — American Society and Institutions	IC — Intermediate Composition Competency
BC — Basic Composition Competency	LS — Life Sciences
CL — Computer Literacy Competency	MC — Mathematics Competency
CT — Critical Thinking Competency	OC — Oral Communication Competency
EP — English Proficiency Requirement	PL — Philosophy and Letters
FC — Foreign Culture	PS — Physical Sciences
GE — General Education	SS — Social Sciences
HS — Historical Studies	VP — Visual and Performing Arts
	WI — Writing Intensive Competency

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 preconditions 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 Office of the University Counseling Services (698 Student Center Building).

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; GIS 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; AGS 4991/4996; ENG 2050, 2100, 2110, 2120, 2210, 2310, 2390, 2570, 3010, 3030, 3050; GIS 3510; GUH 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 above. 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) 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 a second time must elect and satisfactorily complete 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: ENG 3060; GIS 1560; SPB 1010; 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; CSC 1000, 1010, 1050, 1100, 1140, 2110, or any higher-level CSC course; GST 2710; ISM 2630; MED 5590; MUA 5610; NUR 1110; SPC 3170; SPJ 2020, 3210; 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: GER 1050; GIS 3260; PHI 1050; SLA 1050; SPC 2110; 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.

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 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*, 1050*, 1070*, 1310*; GEL 1010*; GST 2420*; HON 4230; PHY 1020*, 1040, 1070, 2130*, 2170*, 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; GST 2310; HON 4200; 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 (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; GIS 3160; GUH 3810; HIS 1100, 1200, 1300, 1400, 1600, 1610, 1800, 1810, 1950, HON 4250; 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:

AGS 3420; GSS 1510; HON 4270; 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; AGS 3480; ANT 2100; ECO 1000, 2010, 2020; GPH 1100, 2000, 3130, 3200; GSS 2710; HIS 2000; HON 4210; 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; GIS 3600, 3610, 3620; GRK 3710; HIS 2440; HON 4260; ITA 2710, 2720; JPN 4550, 4560; N E 2000, 3550; NUR 4800; POL 3410; RUS 3410, 3510; 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).

Visual and Performing Arts (VP): Students must complete one course in the appreciation or history of art, music, film, dance, theatre, or appropriate combinations of these media. The following approved options are designed to enhance understanding and pleasure;

emphasis is placed on developing the fundamental skills of analysis, interpretation, and evaluation and applying them to primary materials in the visual and performing arts. (Studio and applied courses will not satisfy this requirement.)

VISUAL AND PERFORMING ARTS OPTIONS:

A H 1000, 1020, 1110, 1120; DNC 2000, 2310; ENG 2450, 2460; FLM 2010, 2020; GUH 2730, 3730; HON 4240; HUM 1010, 1020, 1030; MUH 1340, 1350, 1370; SPF 2010, 2020; THR 1010, 1030.

Philosophy and Letters (PL): Students must complete one course in philosophy, literature, linguistics, the history of rhetoric, or appropriate combinations of these subjects. The following approved options are designed to enhance understanding and pleasure; emphasis is placed on developing the fundamental skills of analysis, interpretation, and evaluation, and applying them to primary philosophical and literary materials.

PHILOSOPHY AND LETTERS OPTIONS:

CLA 1010, 2100, 2200; ENG 2200, 2500, 2720, 3110, 3120, 3140; FRE 2700; GER 2310, 2700, 2991; GUH 2710, 3710; HON 2100, 4200; HUM 2100, 2200, 2220; ITA 2700; LIN 2720; PHI 1010, 1020, 1030, 1040, 1100, 2100, 2110, 2320, 3500, 3550, 3700; P S 3510, 3520; RUS 2700, 3600, 3650; SLA 2310; SPA 2700; SPC 2160.

THE UNIVERSITY AND ITS LIBRARIES: Newly-matriculated undergraduate students can profit from an introduction to the history and development of the modern university, the function of the university as a social institution, the roles of the faculty, the relationship between research and teaching, and the impact of different methods of inquiry on the growth and evolution of ideas. All students should be familiar with those service units of the University which may enhance educational development and career selection.

To meet these objectives, all freshmen and students who transfer twelve or fewer hours to Wayne State University are required to complete satisfactorily UGE 1000, The University and its Libraries, a one-credit course consisting of lectures and applied skills modules designed to introduce modern universities and their research libraries, especially those of Wayne State University. Students will become oriented to the information available in the Wayne State Library System and both the traditional and automated methods of accessing this material. The goal of this experience is to enrich the lives of students while at the University and afterwards, and to improve the ways in which 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. THE REQUIREMENT MUST BE SATISFIED PRIOR TO COMPLETING THIRTY CREDITS IN RESIDENCE, BUT NO LATER THAN THE SECOND TERM AT WAYNE STATE UNIVERSITY.

COURSE of INSTRUCTION (UGE)

1000. (GE) The University and Its Libraries. Cr. 1

Prereq: admission to Wayne State University. Offered for S and U grades only. Develops student awareness of traditions, goals, and structures of universities and their research libraries, and particularly of those at Wayne State University; use of WSU facilities to attain educational and life goals. (F,W)

University Requirements

Prior to Fall Term 1987

The following requirements apply to all undergraduate students who matriculated at Wayne State University prior to Fall Term 1987 and to all entering undergraduate students not covered in the General Education Implementation Schedule above:

University Requirements in American Government:

All undergraduate students must satisfactorily complete a course in the principles of American government as a prerequisite to graduating from Wayne State. The courses and course sequences listed below and similar courses completed in other colleges and universities are applicable to this requirement. Credit for these courses may be applied toward fulfillment of a minor in the social sciences.

1. History 1030 (former 103)
2. History 2040 and 2050 (former 204 and 205)
3. History 5160 and 5170 (former 516 and 517)
4. Political Science 1010 (former 101)
5. Political Science 1030 (former 103)
6. former Political Science 201 and 202
7. General Social Science (College of Lifelong Learning). Any six of the following courses: GSS 2010, 2710, 2720, 2730; former GSS 202, 203, 231, 232, 233.

University Proficiency Requirements in English and Mathematics:

ALL UNDERGRADUATE STUDENTS WHO HAVE REGISTERED FOR THE FIRST TIME AT WAYNE STATE UNIVERSITY SINCE FALL SEMESTER 1983 ARE REQUIRED TO DEMONSTRATE PROFICIENCY IN ENGLISH AND MATHEMATICS BY THE TIME THEY HAVE EARNED SIXTY SEMESTER CREDITS TOWARD A BACHELOR'S DEGREE. The following proficiencies establish minimal standards throughout the University, and students who meet these standards have satisfied the University-wide requirements. Individual colleges or schools, as part of their own requirements, may set higher standards as a prerequisite for admission to a major or as a prerequisite for enrollment in certain classes.

Undergraduate students who have completed sixty credits of college-level work are expected to demonstrate the following proficiencies:

English Proficiency — Students will be expected to: (1) use English as an effective means of written communication; (2) write with facility at the level of writing demanded by courses throughout the University; (3) support statements with specific details or relevant evidence; (4) present a recognizable point of view or aim; (5) adapt tone and style to the needs of the audience and to the demands of the occasion; (6) vary sentence structure, length, and style; (7) employ vocabulary appropriate to the subject matter; (8) exercise command over standard written English, especially in spelling, punctuation, inflections, mechanics, and diction.

English proficiency can be established in the following ways:

1. Pass the English Proficiency Examination.
2. Pass English 1080 (restricted to those who have failed the English Proficiency Examination).

Mathematics Proficiency — Students will be expected to: (1) perform, with reasonable accuracy, addition, subtraction, multiplication, and division, using fractions, decimals, and integers; (2) use ratios, percentages, proportions, roots, and powers; (3) apply the concepts of introductory algebra and informal geometry; (4) make estimates and approximations and judge the reasonableness of the results; (5) formulate and solve a problem in mathematical terms; (6)

estimates and approximations and judge the reasonableness of the results; (5) formulate and solve a problem in mathematical terms; (6) read and interpret graphs, charts, and tables; (7) apply elementary concepts of probability and statistics; (8) deal with different units of measurement.

Mathematics proficiency can be established in the following ways for students who enrolled at Wayne State from Fall Term 1983 through Spring/Summer Term 1990:

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, University Counseling Services, at regularly scheduled intervals. Students should contact the Testing and Evaluation Office, University Counseling Services, 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 Allied Health Professions 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 and Evaluation Office, University Counseling Services, 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 the Testing Office of the University Counseling Services (698 Student Center Building). (N.A. = Not Applicable)

Competency	High School Courses	SAT or ACT score	AP score	CLEP Exam name: score	WSU Qualifying Exam	WSU Proficiency Exam
.....						
A. Written Communication						
1. Basic Composition (BC)	N.A.	N.A.	3, 4, or 5	Eng. Comp: 500	Placement out of ENG 1020	N.A.
2. Intermediate Composition (IC)	N.A.	N.A.	4 or 5	N.A.	N.A.	N.A.
3. English Proficiency Exam (EP)	N.A.	N.A.	N.A.	N.A.	N.A.	Exam to be passed before completion of 60 credit hours
4. College/School/Dept. Requirement Writing Intensive Course (WI)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
.....						
B. Mathematics Proficiency (MC)	N.A.	N.A.	2, 3, 4, or 5	Genl. Math: 490 Algebra/Trig: 50 Coll. Algebra: 50 Trigonometry: 50 Calculus with Elementary Functions: 50	N.A.	Exam to be passed before completion of 30 hours unless requirement previously fulfilled by other means
.....						
C. Oral Communication (OC)	2 semesters	N.A.	N.A.	N.A.	N.A.	Exam to be passed before 60 hours unless requirement previously fulfilled by other means
.....						
D. Computer Literacy (CL)	1 semester	N.A.	3, 4, or 5	Computers and Data Processing: 50	N.A.	Same as for Oral Communication, above
.....						
E. Critical or Analytic Thinking (CT)	N.A.	N.A.	N.A.	N.A.	N.A.	Exam to be passed before completion of 60 hours unless requirement previously fulfilled by other means
.....						

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 Group Requirements.) The CLEP General Examinations, when passed with the indicated scores, grant the student credit for two courses, as follows:

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

Group Requirement	Advanced Placement Program			College-Level Examination Program					
	AP Test	AP Score	Credits Awarded	CLEP Test S = Subject Exam G = General Exam	CLEP Score	Credits Awarded			
Natural Science:	Physical Science (PS)	Chemistry	3, 4, or 5	4-8	General Chemistry (S)	50	4		
		Physics (Basic)	3, 4, or 5	4-8	Natural Science (G)	490	4		
		Physics (E & M)	4 or 5	4-8					
		Physics (Mechanics)	4 or 5	4-8					
	Life Science (LS)	Biological Science	3, 4, or 5	4-8	General Biology (S)	50	3		
		Psychology	3, 4, or 5	3	General Psychology (S)	50	3		
					Natural Science (G)	490	4		
Historical Studies (HS)	European History*	3, 4, or 5	3-7	Western Civ. I (S)	50	3			
				Western Civ. II (S)	50	3			
				Social Sci. & History (G)	490	4			
American Institutions (AI)	American History*	3, 4, or 5	3-7	American Hist. I (S)	50	3			
				American Hist. II (S)	50	33			
	American Government*	3, 4, or 5	3-4	American Govt. (S)	50	3			
Basic Social Science (SS)				Intro. Sociology (S)	50	3			
				Macroeconomics	3, 4, or 5	3-4	Intro. Macroeconomics (S)	50	3
				Microeconomics	3, 4, or 5	3-4	Intro. Microeconomics (S)	50	3
							Social Sci. & History (G)	490	4
Foreign Culture (FC)				French Language	3, 4, or 5	4-8			
				German Language	3, 4, or 5	4-7			
				Spanish Language	3, 4, or 5	4-8			
				Comparative Politics*	3, 4, or 5	3			
Humanities:	Visual and Performing Arts (VP)	Art History	3, 4, or 5	3	Humanities (G)	490	3		
		Music History	3, 4, or 5	2-3					
	Philosophy and Letters (PL)	French Literature	3, 4, or 5	4-8	American Literature (S)	50	3		
		German Literature	3, 4, or 5	4-7	Analysis and Interpretation of Literature (S)	50	3		
		Spanish Literature	3, 4, or 5	4-8	English Literature (S)	50	3		
					Humanities (G)	490	3		

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

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

*** American Society and Institutions (AI)**

AGS 3420 — (AI) The American Constitution and the Judicial System. Cr. 4
 GSS 1510 — (AI) American Political Development. Cr. 4
 HON 4270 — (AI) Seminar in American Society and Institutions. Cr. 3 (Max. 9)
 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
 GIS 1510 — (BC) Written Communication Skills. Cr. 4 (Max. 8)

Computer Literacy Competency (CL)

B E 1010 — (CL) Introduction to Computers in Engineering. Cr. 3
 CSC 1000 — (CL) Introduction to Computer Science. Cr. 3
 CSC 1010 — (CL) Fundamentals of 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 2110 — (CL) Introduction to Data Structures and Abstraction. Cr. 4
 GST 2710 — (CL) Computers and Society. Cr. 4
 ISM 2630 — (CL) Introduction to Business Computing. Cr. 2
 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
 SPC 3170 — (CL) Fundamentals of Public Relations. Cr. 3
 SPJ 2020 — (CL) Using Computers in Journalism. Cr. 1
 SPJ 3210 — (CL) News Editing. Cr. 4

Critical Thinking Competency (CT)

GER 1050 — (CT) Critical Thinking: Issues in German and Slavic Culture (SLA 1050) Cr. 3.
 GIS 3260 — (CT) Methods of Search and Critical Thinking. Cr. 4
 PHI 1050 — (CT) Critical Thinking. Cr. 3
 SLA 1050 — (GER 1050) (CT) Critical Thinking: Issues in German and Slavic Culture. Cr. 3.
 SPC 2110 — (CT) Argumentation and Debate. Cr. 3

English Proficiency (EP)

ENG 1080 — (EP) Writing Workshop. Cr. 2

*** Foreign Culture (FC)**

AFS 3250 — (FC) Politics and Culture in Anglophone Caribbean. Cr. 3
 AFS 3610 — (GIS 3610) (FC) Interdisciplinary Perspectives on Foreign Culture: The Africans.
 Cr. 4
 ANT 3150 — (FC) Anthropology of Business. Cr. 3
 ANT 3520 — (FC) Stability and Change in Contemporary Africa. 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
 ARB 2010 — (FC) Intermediate Arabic I. Cr. 4
 ARM 2010 — (FC) Intermediate Armenian. Cr. 4
 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 2010 — (FC) Intermediate French. Cr. 4
 FRE 2710 — (FC) Introduction to French Civilization. Cr. 3
 FRE 2720 — (FC) The Contemporary French. Cr. 3
 GER 2010 — (FC) Intermediate German. Cr. 4
 GER 2710 — (FC) Survey of Germanic Culture I. Cr. 3
 GER 2720 — (FC) Survey of Germanic 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
 GIS 3600 — (FC) Interdisciplinary Perspectives on Foreign Culture: The Arabs. Cr. 3
 GIS 3610 — (FC) Interdisciplinary Perspectives on Foreign Culture: The Africans.
 (AFS 3610) Cr. 4
 GIS 3620 — (FC) Interdisciplinary Perspectives on Foreign Culture: The Chinese. Cr. 3
 GRK 2010 — (FC) Classical Greek Prose. Cr. 4
 GRK 2110 — (FC) Intermediate Modern Greek. Cr. 4
 GRK 3710 — (FC) Modern Greek Literature and Culture. Cr. 4
 HEB 2010 — (FC) Intermediate Hebrew I. Cr. 4
 HIS 2440 — (CBS 2410) (FC) History of Mexico. Cr. 3
 HON 4260 — (FC) Seminar in Foreign Culture. Cr. 3 (Max. 9)
 ITA 2010 — (FC) Intermediate Italian. Cr. 4
 ITA 2710 — (FC) Italian Culture and Civilization I. Cr. 3
 ITA 2720 — (FC) Italian Culture and Civilization II. Cr. 3
 JPN 2010 — (FC) Intermediate Japanese I. Cr. 4
 JPN 4550 — (FC) Japanese Culture and Society I. Cr. 4
 JPN 4560 — (FC) Japanese Culture and Society II. Cr. 4
 LAT 2010 — (FC) Latin Literature. 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 2010 — (FC) Intermediate Polish. Cr. 4
 POL 3410 — (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410)
 (GER 3410) (RUS 3410) (UKR 3410) Cr. 3
 RUS 2010 — (FC) Intermediate Russian. Cr. 4
 RUS 3410 — (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410)
 (GER 3410) (POL 3410) (UKR 3410) Cr. 3
 RUS 3510 — (FC) Study of Russian Culture. Cr. 3
 SLA 3410 — (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410) (GER 3410)
 (POL 3410) (RUS 3410) (UKR 3410) Cr. 3
 SPA 2010 — (FC) Intermediate Spanish. Cr. 4
 SWA 2010 — (FC) Intermediate Swahili. Cr. 4
 UKR 2010 — (FC) Intermediate Ukrainian. Cr. 4
 UKR 3410 — (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410)
 (GER 3410) (POL 3410) (RUS 3410) Cr. 3

*** Historical Studies (HS)**

ANT 3200 — (HS) Lost Cities and Ancient Civilizations. Cr. 3
 GIS 3160 — (HS) World War I as a Turning Point: Historical Perspectives. Cr. 4
 GUH 3810 — (HS) Approaches to the Study of History. Cr. 3-4
 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.
 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)
 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.

* For the Group Requirements: AI, FC, HS, LS, PL, PS, SS and VP, students may elect no more than one course from a single subject area code as defined by the letters which precede course numbers. For example, a student who takes a HIS (History) course to fulfill a Group Requirement cannot take another HIS course to fulfill any other requirement.

Intermediate Composition Competency (IC)

- AFS 2390 — (ENG 2390) (IC) Introduction to African-American Literature: Literature and Writing. Cr. 4
- AGS 4910 — (IC) Senior Essay Seminar I. 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 3030 — (IC) Writing the Research Paper. Cr. 3
- ENG 3050 — (IC) Technical Communication I: Report Writing. Cr. 3
- GIS 3510 — (IC) Intermediate Reading and Writing. Cr. 4
- GUH 2010 — (IC) Cultural Identity and the American Experience: Writers' Responses. Cr. 4
- HUM 2000 — (IC) Reading and Writing About the Arts. Cr. 3

* 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
- GST 2310 — (LS) Living in the Environment. Cr. 4
- HON 4220 — (LS) Seminar in Life Science. Cr. 3
- NFS 2030 — (LS) Introductory Nutrition. Cr. 3-4**
- 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

Oral Communication Competency (OC)

- ENG 3060 — (OC) Technical Communication II: Writing and Speaking. Cr. 3
- GIS 1560 — (OC) Dimensions of Oral Communication. Cr. 4 (Max. 8)
- SPB 1010 — (OC) Oral Communication: Basic Speech. Cr. 2-3

* Philosophy and Letters (PL)

- CLA 1010 — (PL) Classical Civilization. Cr. 3-4
- CLA 2100 — (PL) Honors Classical Origins of Western Thought. (HON 2100) Cr. 3
- CLA 2200 — (PL) Introduction to Greek Tragedy. Cr. 3-4
- 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 and 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
- GUH 2710 — (PL) Art and Aesthetics: Literature and Philosophy. Cr. 4
- GUH 3710 — (PL) Significant Issues in Cultural Studies. Cr. 3-4
- HON 2100 — (CLA 2100) (PL) Honors Classical Origins of Western Thought. Cr. 3
- HON 4200 — (PL) Seminar in Philosophy and Letters. Cr. 3 (Max. 9)
- HUM 2100 — (PL) Humanities and the Western Tradition I: Antiquity to the Renaissance. Cr. 4
- HUM 2200 — (PL) Sophomore Honors Colloquium in Humanities. Cr. 4 (Max. 9)
- HUM 2220 — (PL) Constructs of Human Experience: Histories, Novels, Philosophies. Cr. 3-4
- ITA 2700 — (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature.

(SPA 2700) (FRE 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) Cr. 3-4
- RUS 3600 — (PL) Literature Before Communism. Cr. 3
- RUS 3650 — (PL) Literary Masterpieces: Love, War, and Revolution. 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
- SPC 2160 — (PL) Contemporary Persuasive Campaigns and Movements. Cr. 4

* Physical Sciences (PS)

- AST 2010 — (PS) Descriptive Astronomy. Cr. 4-5**
- CHM 1000 — (PS) Chemistry and Your World. Cr. 3-4**
- CHM 1020 — (PS) General Chemistry I. Cr. 4**
- CHM 1050 — (PS) Introductory Principles of Chemistry. Cr. 6**
- CHM 1070 — (PS) Principles of Chemistry I. Cr. 4**
- CHM 1310 — (PS) Chemical Principles and Analysis I. Cr. 5**
- GEL 1010 — (PS) Geology: The Science of the Earth. Cr. 4**
- GST 2420 — (PS) Atoms and Stars: A Historical Introduction to Astronomy, Physics and the Process of Scientific Discovery. Cr. 3-4**
- HON 4230 — (PS) Seminar in Physical Science. Cr. 3
- PHY 1020 — (PS) Conceptual Physics: The Basic Science. Cr. 3-4**
- PHY 1040 — (PS) Einstein, Relativity and Quanta: A Conceptual Introduction. Cr. 3-4
- PHY 1070 — (PS) Energy and the Environment. Cr. 4
- PHY 2130 — (PS) General Physics. Cr. 4**
- PHY 2170 — (PS) General Physics. Cr. 4-5**
- PHY 3100 — (PS) The Sounds of Music. Cr. 4**

* Social Sciences (SS)

- AFS 2210 — (SS) Black Social and Political Thought. Cr. 4
- AGS 3480 — (SS) Theoretical and Practical Analysis of Work Organizations. Cr. 4
- ANT 2100 — (SS) Introduction to Anthropology. Cr. 3-4
- ECO 1000 — (SS) Survey of Economics. Cr. 4
- ECO 2010 — (SS) Principles of Microeconomics. Cr. 3-4
- ECO 2020 — (SS) Principles of Macroeconomics. Cr. 3-4
- GPH 1100 — (SS) World Regional Patterns. Cr. 4-5
- GPH 2000 — (U S 2000) (SS) Introduction to Urban Studies (HIS 2000) (SOC 2500) (P S 2000). Cr. 4
- GPH 3130 — (SS) Introductory Urban Geography. Cr. 4
- GPH 3200 — (SS) Europe. Cr. 3

* For the Group Requirements: AI, FC, HS, LS, PL, PS, SS and VP, students may elect no more than one course from a single subject area code as defined by the letters which precede course numbers. For example, a student who takes a HIS (History) course to fulfill a Group Requirement cannot take another HIS course to fulfill any other requirement.

** Courses which also satisfy the Natural Science Laboratory Requirement when elected for appropriate credits.

* Social Sciences (SS) (cont'd.)

- GSS 2710 — (SS) Selected Perspectives on Ethnicity. Cr. 4
HIS 2000 — (U S 2000) (SS) Introduction to Urban Studies (SOC 2500) (P S 2000) (GPH 2000). Cr. 4
HON 4210 — (SS) Seminar in Social Sciences. Cr. 3
P S 1000 — (SS) Introduction to Political Science. Cr. 3
P S 2000 — (U S 2000) (SS) Introduction to Urban Studies. (HIS 2000) (SOC 2500) (GPH 2000) Cr. 4
P S 2240 — (SS) Introduction to Urban Politics and Policy. Cr. 4
SOC 2000 — (SS) Understanding Human Society. Cr. 3
SOC 2020 — (SS) Social Problems. Cr. 3
SOC 2500 — (U S 2000) (SS) Introduction to Urban Studies (HIS 2000) (P S 2000) (GPH 2000). Cr. 4
SOC 3300 — (SS) Social Institutions and Social Structure. Cr. 4
SOC 3510 — (SS) The Nature and Impact of Population on Society. Cr. 3
SOC 4100 — (SS) Social Psychology. Cr. 4
U S 2000 — (SS) Introduction to Urban Studies. (HIS 2000) (SOC 2500) (P S 2000) (GPH 2000) Cr. 4
W S 3010 — (SS) Interdisciplinary Introduction to Women's Studies. Cr. 3-4

* Visual and Performing Arts (VP)

- A H 1000 — (VP) Introduction to Art. Cr. 4
A H 1020 — (VP) Image, Race, Gender, Power. Cr. 3
A H 1110 — (VP) Paleolithic through Gothic Art Survey. Cr. 3
A H 1120 — (VP) Renaissance through Modern Art Survey. Cr. 3-4
DNC 2000 — (VP) Introduction to Dance. Cr. 4
DNC 2310 — (VP) Historical Perspectives of Dance. Cr. 3
ENG 2450 — (FLM 2010) (VP) Introduction to Film. (SPF 2010) Cr. 4
ENG 2460 — (FLM 2020) (VP) History of Film. (SPF 2020) Cr. 3
FLM 2010 — (VP) Introduction to Film. (ENG 2450) (SPF 2010) Cr. 4
FLM 2020 — (VP) History of Film. (ENG 2460) (SPF 2020) Cr. 3
GUH 2730 — (VP) Meaning in the Visual and Performing Arts. Cr. 3
GUH 3730 — (VP) Music in American Culture. Cr. 3
HON 4240 — (VP) Seminar in Visual and Performing Arts. Cr. 3 (Max. 9)
HUM 1010 — (VP) Introduction to Art and Music in Western Civilization. Cr. 4
HUM 1020 — (VP) Experiencing the Arts. Cr. 3-4
HUM 1030 — (VP) Exploring the Arts in Detroit. Cr. 4
MUH 1340 — (VP) Music Appreciation: World Music. Cr. 3
MUH 1350 — (VP) Music Appreciation: Popular Music to the Present. Cr. 3
MUH 1370 — (VP) Music Appreciation: Beginnings to the Present. Cr. 3
SPF 2010 — (FLM 2010) (VP) Introduction to Film. (ENG 2450) Cr. 4
SPF 2020 — (FLM 2020) (VP) History of Film. (ENG 2460) Cr. 3
THR 1010 — (VP) Introduction to the Theatre. Cr. 3
THR 1030 — (VP) Black Theatre: An Introduction. Cr. 3

Writing Intensive Competency (WI)

- ACS 5993 — (WI) Writing Intensive Course in Applied Arts. Cr. 0
AGS 4860 — (WI) Senior Seminar II. Cr. 4
AGS 4992 — (WI) Senior Capstone Essay/Project. Cr. 4
AGS 4995 — (WI) Senior Essay Seminar II. Cr. 4
A H 5090 — (WI) Theory and Methods of Art Historical Research. Cr. 3
A H 5993 — (WI) Writing Intensive Course in Fine Arts. Cr. 0
ANT 5993 — (WI) Writing Intensive Course in Anthropology. Cr. 0
BIO 5993 — (WI) Writing Intensive Course in Biological Sciences. Cr. 0
C E 4220 — (WI) Environmental Engineering. Cr. 3
CHE 4200 — (WI) Chemical Process Engineering III: Economics and Design. Cr. 3
CHM 5550 — (WI) Physical Chemistry Laboratory. Cr. 2
CLA 5993 — (WI) Writing Intensive Course in Classical Civilization. Cr. 0
CLS 5993 — (WI) Writing Intensive Course in Clinical Laboratory Science. Cr. 0

- CRJ 5993 — (WI) Writing Intensive Course in Criminal Justice. Cr. 0
CSC 4996 — (WI) Frontiers of Computing. Cr. 2
DNC 5993 — (WI) Writing Intensive Course in Dance. Cr. 0
ECE 4600 — (WI) Microcomputer Interface Design. Cr. 4
ECO 5993 — (WI) Writing Intensive Course in Economics. Cr. 0
ENG 5993 — (WI) Writing Intensive Course in English. Cr. 0
E T 4999 — (WI) Senior Project. Cr. 3
FLM 5993 — (WI) Writing Intensive Course in Film Studies. Cr. 0
FRE 5100 — (WI) Advanced Speaking and Writing. Cr. 4
GEL 5993 — (WI) Writing Intensive Course in Geology. Cr. 0
GER 5993 — (WI) Writing Intensive Course in German. Cr. 0
GPH 3020 — (WI) Spatial Organization: Concepts and Techniques. Cr. 3
HIS 5993 — (WI) Writing Intensive Course in History. Cr. 0
HUM 5993 — (WI) Writing Intensive Course in Humanities. Cr. 0
I E 4310 — (WI) Production Control. Cr. 4
ITA 5993 — (WI) Writing Intensive Course in Italian. Cr. 0
LAT 5993 — (WI) Writing Intensive Course in Latin. Cr. 0
LBS 4700 — (WI) Senior Seminar. Cr. 3 (Max. 6)
LIN 5993 — (WI) Writing Intensive Course in Linguistics. Cr. 0
MAT 5993 — (WI) Writing Intensive Course in Mathematics. Cr. 0
M E 4500 — (WI) Mechanical Engineering Design II. Cr. 5
MKT 4330 — (WI) Business Communication. Cr. 3
M S 4300 — (WI) Introduction to the Study of Disease. Cr. 2
M S 5250 — (WI) Applied General Pathology. Cr. 4
M S 5350 — (WI) Applied Grief Counseling: Aftercare. Cr. 2
MSE 4500 — (WI) Materials Selection and Design. Cr. 3
MUH 5993 — (WI) Writing Intensive Course in Music. Cr. 0
N E 5993 — (WI) Writing Intensive Course in Near Eastern and Asian Studies. Cr. 0
NFS 6850 — (WI) Seminar. Cr. 2-4 (Max. 6)
NUR 4120 — (WI) Community Focused Nursing Practice. Cr. 6
O T 5993 — (WI) Writing Intensive Seminar in Occupational Therapy. Cr. 0
P E 3550 — (WI) Motor Learning and Control. Cr. 3
PHI 5993 — (WI) Writing Intensive Course in Philosophy. Cr. 0
PHY 5600 — (WI) Electricity and Magnetism I. Cr. 4
PHY 6850 — (WI) Modern Physics Laboratory I. Cr. 2
POL 5993 — (WI) Writing Intensive Course in Polish. Cr. 0
PPR 3120 — (WI) Pharmacy Jurisprudence. Cr. 2
PPR 4210 — (WI) Pharmacy Management. Cr. 4
PPR 5000 — (WI) Drug Literature Evaluation. Cr. 2
PPR 5120 — (WI) Hospital Pharmacy Externship. Cr. 4-7
P S 5993 — (WI) Writing Intensive Course in Political Science. Cr. 0
PSY 5993 — (WI) Writing Intensive Course in Psychology. Cr. 0
P T 4700 — (WI) Research Practicum. Cr. 2
RDG 4430 — (WI) Teaching Reading in Subject Matter Areas. Cr. 3
R P 4630 — (WI) Philosophy of Recreation and Park Services. Cr. 3
R T 4360 — (WI) Clinical Practicum V. Cr. 4
RUS 5993 — (WI) Writing Intensive Course in Russian. Cr. 0
SED 5340 — (SLP 5360) (WI) Clinical Practice in Speech-Language Pathology. Cr. 3
SLP 5360 — (WI) Clinical Practice in Speech-Language Pathology (SED 5340). Cr. 3
SOC 4200 — (WI) Methods of Social Research. Cr. 3
SPA 5100 — (WI) Advanced Composition. Cr. 3
SPC 5993 — (WI) Writing Intensive Course in Speech Communication. Cr. 0
SPJ 5993 — (WI) Writing Intensive Course in Journalism. Cr. 0
SPR 5993 — (WI) Writing Intensive Course in Radio/Television. Cr. 0
S W 4997 — (WI) Integrative Seminar in Social Work. Cr. 2
THR 5993 — (WI) Writing Intensive Course in Theatre. Cr. 0

* For the Group Requirements: AI, FC, HS, LS, PL, PS, SS and VP, students may elect no more than one course from a single subject area code as defined by the letters which precede course numbers. For example, a student who takes a HIS (History) course to fulfill a Group Requirement cannot take another HIS course to fulfill any other requirement.

Graduation with Distinction

Wayne State University bestows upon students completing the baccalaureate degree three separate designations for scholastic excellence reflected in the cumulative honor 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 graduation the top twenty per cent of students in each college who have earned the highest honor point average in their colleges, with the following approximate distribution:

<i>Summa Cum Laude</i>	Top five per cent
<i>Magna Cum Laude</i>	Next five per cent
<i>Cum Laude</i>	Next ten per cent

The specific minimum honor point average will be determined each year in the following manner, except that it shall not be less than 3.0:

Based on the honor point average distributions of the previous year's senior class, the honor 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 honor point average (calculated as explained above) on all work at Wayne State University must be completed by the end of the semester of graduation. (For notation in the commencement program, the honor point average on all work completed 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 Program: a University-wide Honors Curriculum; and a College or Department Honors Curriculum.

Dual Recognition: Students who complete the requirements of both the University-wide Honors Program and, in addition, the requirements of a college/department Honors Program, shall have both designations 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, students should contact the Director of Honors Programs, who is responsible for overall administration of the University's honors curricula, or their program adviser, regarding college or departmental programs.

University-wide Honors Curriculum

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

Admission: Students with excellent academic records are eligible and may enter the University's Honors Program. In considering participants 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 honor point average of 3.5, or a composite ACT score of 26 or SAT combined score of 1100, is eligible for admission to the Honors Program.

Matriculated Students: Students who have a cumulative honor point average of 3.3 or above at Wayne State University for twenty-four successive credits, and who have satisfied the English and Mathematics Proficiency Requirements, may apply for admission to the program.

Transfer Students: Students who have completed a minimum of fifteen hours of college credit with a cumulative honor 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 student 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 nine credit hours of honors work may be transferred from another institution.

Presidential Scholars: Students awarded Presidential scholarships may join the University Honors Program upon entrance to Wayne State University.

Students whose cumulative honor point average is at least 3.3, but who are not formally in the Honors Program, are eligible to elect honors 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. Students in this program *must* satisfy the General Education Requirements, 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 student's home college and by the University Honors Council. 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 student 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 honor point average greater than or equal to 3.3; however, colleges/departments may establish a higher h.p.a. for retention in a college/department program.
- c) A student whose cumulative honor point average is below 3.3 and is, for that reason, dropped from the Honors Program, may reapply when his/her cumulative h.p.a. is 3.3 or higher.

Graduation: For graduation, students must have a minimum cumulative honor point average of 3.3 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 thesis) with a minimum cumulative honor point average of 3.3 for University 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 encouraged 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 honor point average of 3.3 is

required for enrollment in college/department programs; however, colleges/departments may establish a higher honor point average for admission.

Program Requirements: College or department Honors Curricula shall 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 honor point average greater than or equal to 3.3; however, colleges/departments may establish a higher h.p.a. for retention in college/department programs.

Graduation: For graduation with honors, students must have a minimum honor point average of 3.3; but college or department Honors Programs may establish a higher h.p.a. Normally, the honor 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 Affairs.

Academic Advising

University Advising Center

2 East, Helen Newberry Joy Student Services Center; 577-2680
577-8889 for appointments

The University Advising Center provides undergraduate academic advising to all 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 fifteen professional advisers. The major responsibilities and services provided by the University Advising Center include:

Program Advising helps students choose a program of courses designed to fulfill the requirements of their academic curriculum. Courses are suggested and discussed in connection with students' intended academic goals. Advisers are fully informed on 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 honor point average falls below 2.0 and who are placed on academic probation are required to discuss their situation with an academic adviser. Advisers help probationary students consider ways to improve their academic situation. Referrals may be made to other University services where students can find assistance for specific problems or difficulties.

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 at the School of Business Administration, the College of Education, the College of Nursing, the Faculty of Pharmacy, and the Allied Health Professions Departments.

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.

Study Abroad Resource Center: Books, brochures, catalogs and advising on academic and travel/study programs in foreign countries are available at the Resource Center, including information on Wayne State's thirteen foreign-study programs and other programs sponsored by American and foreign institutions. Course credit is available on approval for many foreign study programs; credit approval should be obtained before entering a foreign study program.

University Orientation Program: A University-wide orientation program, 'Wayne State and You' (WS&U), is mandatory for entering freshmen and for transfer students with fewer than thirty credits. Students learn about University programs and services, receive academic advising, and register for classes during the one-day program. A Transfer Transition Orientation is offered at which students learn about University programs and resources, meet individually with an adviser in their school or college, and register for classes.

Student Handbook: Perspectives, the student handbook is published annually for new and continuing students. This book includes information about University programs, policies, procedures, and services as well as activities in the campus area.

Wayne EXCEL Program Advising: Wayne EXCEL offers academic support and intensive developmental advising to a select group of first- and second-year students. The advising includes diagnostic assessment of study skills and ACT interpretation, pre-scheduled advising appointments, developmental workshops, and exploration of educational and career goals.

Early Assessment: It is the responsibility of the University Advising Center to notify students enrolled in lower division (0000–2999) courses of any academic alert based on faculty assessment during the fourth week of class.



ACADEMIC PROCEDURES

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*. 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*, available at the Registration and Scheduling Office, 2 West, Helen Newberry Joy Student Services Center.

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 the requirement of 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.

Auditing Courses

To audit a course, a student must indicate, at the time of registration for the course(s), 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. During in-person registration, a Permit to Schedule form must be approved by the Dean of the college or school in which the student is enrolled and be submitted to the Registration and Scheduling Office;

During Mail Registration, the student should indicate the Audit option on the Mail Registration Schedule Request form and make sure that the approval process has been completed with his/her Dean's Office;

3. A student is not permitted to take quizzes and examinations in audited courses;
4. A student normally may not 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 Request to Drop/Add Form indicating the requested change.

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

Graduate Course Election and Dual Enrollment

Undergraduate Election of a Graduate Course: Highly qualified undergraduate students may, under special circumstances, take a 700-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: Senior Rule is a Graduate Admission status granted to qualified undergraduate students in their last undergraduate semester. The Senior Rule allows undergraduate students to register for graduate courses and pay undergraduate fees for all courses; it may be invoked for one term only. The graduate courses are recorded on a graduate transcript, and the undergraduate courses on the student's undergraduate transcript.

The Senior Rule/Dual Enrollment form must be submitted along with the regular registration forms. For further information, see Senior Rule Admission, page 47.

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. The Senior Rule/Dual Enrollment form must be submitted along with the regular registration forms.

Senior Rule/Dual Enrollment Form: During in-person registration, the completed Senior Rule/Dual Enrollment Form must be submitted to the Registration and Scheduling Office. During Mail Registration, the student should make sure that the approval process has been completed and that the approval form is on file in the Graduate School office.

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 the Office of the Registrar and pay the appropriate tuition at their home institution.

Repeating Courses

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, honor points and credits for an earlier attempt will be eliminated from the student's honor point average computation.
2. The grade, honor points and credits of only the latest repetition will be included in the student's honor point average computation.
3. The original grade in the course repeated under this rule will be indicated by an 'R'. Thus, the indicator 'R' will appear opposite all attempts in a course except the last.

After registering to repeat a course, a Repeat Form must be filed in the Records Office, 1 West, Helen Newberry Joy Student Services Center.

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

If a student in post-bachelor status repeats a course originally taken in post-bachelor status, then rules 1, 2 and 3, cited above, shall apply. If a post-bachelor status student repeats a course originally taken under regular undergraduate status, the repetition will in no way modify the earlier attempt. The second election, however, will be averaged in the honor point base only if the previous grade was a D. No credits or honor points will be given if the previous grade was A, B, or C.

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 Director of Student Services of the School of Business Administration.

College of Pharmacy and Allied Health Professions—Faculty of Allied Health: No course may be repeated without the consent of the adviser(s) delegated for each professional curriculum.

Registration

REGISTRATION and SCHEDULING OFFICE:

2 West, Helen Newberry Joy Student Services Center; 577-3541

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* 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 700), 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.

HOLDS ON RECORDS: Holds on student records are referred to below under 'Mail Registration' and 'Final Registration.' (For further information, see 'Holds,' page 19.)

MAIL REGISTRATION:

1. Any student who wishes to register by mail must submit a completed Mail Registration Schedule Request form with a check or money order for the non-refundable Registration Fee to the Registration and Scheduling Office by the date indicated in the *Schedule of Classes* for the term desired. Students receiving financial assistance through the Office of Scholarships and Financial Aid may submit Tuition Deposit Deferral forms for the required amount with their Schedule Request forms.

2. The Registration and Scheduling Office sends Mail Registration Schedule Request forms, *Schedules of Classes*, and pre-addressed return envelopes to newly admitted and continuing students (excluding new freshmen for the Fall Term) about one month prior to the due date for mail registration. Students not enrolled at Wayne State for the preceding term are not mailed Schedule Request forms and may obtain their forms from the Registration and Scheduling Office, the Student Resource and Assistance Center, the University Advising Center, or their College office.

Exception for Fall Term: Students enrolled during the preceding Winter and/or Spring/Summer Terms will be sent the Mail Registration materials indicated above.

Registration mailings are sent to the address on record. Students should report any change in address to Student Records, 1 West, Helen Newberry Joy Student Services Center.

3. New freshmen and incoming transfer students should attend the 'WS&U' Freshman Orientation on the date specified for their major/curriculum if they wish to register by mail. The Orientation Program is conducted by the University Advising Center.

4. The instructions included on the Mail Registration Schedule Request forms indicate how the forms are to be completed and submitted. Students should pay particular attention to these instructions since incomplete or erroneously completed forms cannot be processed. Students whose forms are not processed will be notified and must register during the Final Registration Period.

5. Students with Holds on their records are notified on their Mail Registration Request forms of the Holds that exist when the forms were printed. Approximately ten days after the mail registration due date, the applicable students are notified by letter of Holds which must be cleared if their mail registrations are to be processed.

6. Official Student Schedules and Identification Cards, signifying completion of registration for the term, are mailed to students approximately one month prior to the beginning of classes. Students

who do not receive their Official Student Schedules and ID Cards must register during the Final Registration Period.

7. Students who receive their Official Student Schedules and ID Cards may adjust their schedules before and during Final Registration. The *Schedule of Classes* indicates the date(s) on which registered students may change their schedules.

8. Students must pay the balance of their term tuition on or before the last day of the first week of classes in order to avoid a late payment charge. Students adding courses after the first week of classes must pay the tuition at the time the courses are being added in order to avoid a late payment fee.

FINAL REGISTRATION:

1. Final Registration is conducted during the week preceding the first day of classes for the term. Students should consult the *Schedule of Classes* for specific dates and times for final registration.

2. Students enrolled in the preceding term who do not register by mail for the current term are sent their Status Forms about two weeks prior to final registration. The Status Forms list any Holds that must be cleared prior to registering. Students who misplace or do not receive their Status Forms may obtain a duplicate during the Final Registration period from Student Records, Helen Newberry Joy Student Services Center.

3. Students who are newly admitted to an academic program for the term are not issued Status Forms and should obtain Authorization to Register Letters from the University Admissions Office.

4. Students registering during the Final Registration Period must:

a) pay the registration deposit, which is the tuition for four undergraduate lower-division credits at the resident rate, plus the non-refundable registration fee (or submit a Tuition Deposit Deferral form);

b) have their Status Forms or Authorization to Register letters;

c) complete their Final/Late Registration Schedule Request forms;

d) obtain releases for any Holds indicated on their Status Forms or Authorization to Register letters; and

e) present the above documents at the registration processing station and receive confirmation of their registration.

5. Final Registration is conducted in the Student Center. Representatives from the Cashier's Office, Accounts Receivable Office, and the Office of Scholarships and Financial Aid are located on the lower level of the Student Center. Academic Advising is available in the Student Academic Help Center located in the Hilberry Lounges on the second floor.

6. Final Registration is completed in the Ballroom on the second floor of the Student Center where computer terminal operators validate course/section selections. As the last step of Final Registration, students are issued ID Cards and Transaction Verification Reports listing the courses/sections in which they are registered.

7. Students must pay the balance of their tuition on or before the last day of the first week of classes in order to avoid a late payment charge. Students adding courses after the first week of classes must pay the tuition at the time the courses are being added in order to avoid a late payment fee.

LATE REGISTRATION:

1. Students registering during the Late Registration must follow the procedure for Final Registration, *except*:

a) during the first week of classes students must pay the registration deposit, which is the tuition for four undergraduate

lower-division credits at the resident rate, plus the non-refundable Registration Fee and the non-refundable \$30.00 Late Registration Fee, prior to registering;

NOTE: Students receiving Financial Aid may submit Tuition Deposit Deferral Forms for the required amount to satisfy the above payment requirement.

2. Status Cards for continuing students are available at Records, 1 West, Helen Newberry Joy Student Services Center. Authorization to Register Cards for newly admitted students are available from the admitting office; the University Admissions Office is located in the Helen Newberry Joy Student Services Center.

3. Students with Holds indicated on their Status or Authorization to Register forms must obtain the appropriate releases before completing their registration.

4. Final/Late Registration Schedule Request forms must be completed and required signatures obtained. See the *Schedule of Classes* for courses which require departmental *approval stamps*. In addition, instructors' signatures are required beginning the second week of classes.

5. During the first week of classes, Late Registration is completed in the Ballroom on the second floor of the Student Center. After computer terminal operators validate course/section selections, the student is given an ID card, a Transaction Verification Report listing the courses/sections in which he/she is registered, and Class Admittance Slips for each course/section. The Class Admittance Slips are to be presented to the instructors of the courses/sections indicated.

6. Students registered late who were not required to satisfy their full tuition payment at the time of registration must pay the balance of their tuition on or before the last day of the first week of classes in order to avoid a late payment charge. Students adding courses after the first week of classes must immediately pay the tuition for the courses being added in order to avoid a late payment fee.

Drop/Add — Adjusting Your Schedule

Registered students may drop and/or add classes on the date(s) indicated in the *Schedule of Classes*. Drop/Add Forms are available in the academic departments, the Registration and Scheduling Office, the Student Resource and Assistance Center, and the University Advising Center.

Observe the instructions for Drop/Add processing printed on the form, and 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 by mail by sending a certified letter to the Registration and Scheduling Office, 2 West, Helen Newberry Joy Student Services Center. The effective date of such drops, for tuition cancellation and grading purposes, is determined by the U.S. postal cancellation date.

4. Students who officially drop fifteen-week courses before the conclusion of the first two weeks of classes are entitled to tuition cancellation, and the courses dropped do not appear on the students' academic records.

5. Students who officially drop fifteen-week courses after the second week of classes 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. Instructors' signatures are required for courses being added after the first week of classes. Students are not permitted to add courses after the second of the term.

7. Students who add courses after the first week of the term and increase the number of credit hours scheduled are assessed a \$10.00 Add Processing Fee. The tuition for the increased credits and the \$10.00 Processing Fee are due at the time of processing.

8. Students are required to have instructors' signatures for drops processed after the fourth week of the term and the students' deans' signatures after the twelfth week of the term.

9. Students are not permitted to drop courses after the final examination period begins.

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 honor 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 honor point average (h.p.a.) falls below 2.00 will be placed on 'Academic Probation.' An 'Academic Probation' Hold shall be 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.)

The statement 'Academic Probation' shall be printed on the grade report and the student record the first term in which the cumulative h.p.a. falls below 2.00. 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 h.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

Whenever attendance forms a basis for a portion or all of a course grade, students must be provided with explicit written information concerning that fact during the first week 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). This policy shall be applicable to all courses within the University, regardless of setting.

Lower Division Course Policies

The University policy on common textbooks and course plans requires that most multi-section courses taught at the 1000- and 2000-level shall use a common text or text and a common set of course objectives and topics, in all sections of the course. In addition, the University policy on early progress assessment requires that courses taught at the 1000- and 2000-level include a means of assessing student progress, normally before the end of the fourth week of classes but no later than the sixth week. Students are encouraged to participate in supplemental instruction groups, study groups, and other academic support services designed to help students in lower division courses achieve academic success.

Deception, Fraud and Misuse of Documents

Intentionally furnishing false information to the University is explicitly prohibited, as is forgery, alteration, unauthorized possession, or misuse of University documents, records and identification cards. The University reserves the right to rescind degrees if the award of the degree was based in whole or in part on deception, fraud, other unacceptable academic conduct, or misuse of University documents.

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. In addition, the Board of Governors adopted a Student Due Process Policy. This latter document provides uniform procedures for all schools and colleges. Copies of these documents are available to students and faculty in the offices of the deans of each college and the Office of the Vice President for Student Affairs.

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.

College/School Grade Appeal Procedures

Each college and school has established grade appeal procedures. These procedures are available from the Dean's Office of the College or School. In most instances, grade appeals must be filed within thirty days of the time the student has or should have received his/her final grade.

Academic Appeals Procedure

In matters where a College's 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 Vice President for Academic Affairs to review that decision on the record. A written Request for Vice Presidential 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. Vice Presidential 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 Vice President for Academic Affairs 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 Vice President for Academic Affairs 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 will be postponed until the date that the Vice President for Academic Affairs issues a decision regarding the underlying Request for Vice Presidential Review. The Vice President 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 Vice President for Academic Affairs 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.

STUDENT RECORDS

University Grading System

A report of grades and marks is sent to each registered student after the close of each semester. Final grades are recorded under the following system:

A <i>Excellent</i>	4 honor points per credit hour
B <i>Good</i>	3 honor points per credit hour
C <i>Fair</i>	2 honor points per credit hour
D <i>Poor but passing</i>	1 honor point per credit hour
F <i>Failure</i>	0 honor points per credit hour

M *Marginal Pass* in designated courses such as field work, practicums and internships (NOT used in calculation of honor point average).

P and N *Passed or Not Passed*. These grades are not considered in calculation of the honor point average. Courses completed with grade of 'P' may count toward a degree.

S and U *Satisfactory and Unsatisfactory* performance in non-degree courses and in certain designated courses such as field work, practicums and internships. 'S' and 'U' grades are not considered in calculation of the honor point average.

Marks

I <i>Incomplete</i>	See below for explanation of this mark.
R <i>Repeated</i>	See page 40 for explanation of this mark. (this mark applies to undergraduate students only)
W <i>Official Withdrawal</i>	See below for explanation of this mark.
X <i>No grade reported</i>	See below for explanation of this mark.
Y <i>Deferred</i>	See below for explanation of this mark.
Z <i>Auditor</i>	See below for explanation of this mark.

The mark of I—Incomplete, is given to an undergraduate or a graduate student who has not completed all of the course work as planned for the course and when there is, in the judgment of the instructor, a *reasonable* probability that the student can complete the course *successfully without attending regular class sessions*. The responsibility for completing all course work rests entirely with the student. A final grade is recorded when the student completes the appropriate course work as arranged with the instructor, or, in the absence of the instructor, the department chairperson. (The mark of 'I' shall not be changed to a grade of 'F' unless, after receiving the 'I,' the student's subsequent work is of such quality that the overall average for the course is below passing.)

The course work must be completed by the student within one calendar year. 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 to Student Records that another calendar year has been granted for the removal of the Incomplete.

The mark of 'I' is inappropriate if, in the instructor's judgment, it will be necessary for the student regularly to attend subsequent sessions of the class. 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 is considered to be a 'W,' and the student will be assessed tuition and applicable fees for the second registration.

The mark of W—Official Withdrawal, is given when the student has dropped the course in accordance with University policy. See Drop/Add, above, page 41.

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 a course planned to continue beyond the semester (i.e., essay, thesis, dissertation and certain courses taken in sequence).

The mark of Z—Auditor, is given when the student has formally registered for the course for audit. The student's Academic Dean or the Dean's designee must provide written authorization to the student at the time of registration.

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 this program 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 honor 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.

Honor Point Average

The honor point average (h.p.a.) is the numerical index of the student's scholastic average. Points are assigned to each letter grade (see University Grading System, page 33) for each hour of credit. To compute your honor point average, multiply the honor 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 12 honor points (3 x 4), and a grade of 'C' in a class carrying 4 credits would be assigned 8 honor points (4 x 2). In this example, the honor point average is: 20 (total honor points) divided by 7 (total credits attempted) = 2.85 h.p.a.

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

At the undergraduate level, courses repeated are computed in the honor point average according to the procedure given on page 40 on 'Repeating Courses'.

Law School: This honor 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.

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.

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 the Student Services and Information Systems Office, 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 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.

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 Director of International Programs for further information.

GRADUATE SCHOOL

4300 Faculty/Administration Building; (313) 577-2170
Web: <http://gopher.orsps.wayne.edu/grad/gradschool.html>

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 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 honor 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 honor 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 honor 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 honor point average entitles him/her to qualified status only.

Qualified Admission

In most departments (see below for variants), qualified admission may be authorized if an applicant's honor 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, SACS, 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 honor 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 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 honor 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.

Application Dates

The Office of University Admissions, 3E Helen Newberry Joy Student Services Building (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.

Term	Classes Begin	Date
Fall	Early September	July 1
Winter	Early January	November 1
Spring	Early May	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*

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*, are 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.

Senior Rule Admission: In their last undergraduate semester, Wayne State students with a 3.0 (or above) upper division honor 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 which 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.

* Applicants are advised that there exists an undergraduate admission classification called 'Post-Bachelor'. Students wishing graduate credit are cautioned not to enroll 'Post-Bachelor', since credits earned while holding that classification do not carry, and may not be converted to graduate credit.

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 500-699 courses in their Senior Rule semester that carry both undergraduate and graduate credit. Authorization is made by the individual college or school. Completion of the *Application for Graduate Admission* form is required. Senior Rule status may be granted for one semester only. 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.

College of Pharmacy and Allied Health Professions — 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.

Michigan Intercollegiate Graduate Studies (MIGS) Program

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.

Post-Bachelor Admission

Holders of bachelor's degrees from accredited institutions who wish to elect only courses open to undergraduate students (numbered below 700) 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.

Liberal Arts and Science Doctoral Program

The Liberal Arts and Science Doctoral Program has been established to identify, enroll, and support Wayne State University disadvantaged undergraduate students of high potential who are interested in pursuing doctoral studies in their field. The Program is based on the assumption that there are students from educationally, socially, and/or economically disadvantaged circumstances who have the innate intellectual ability required to complete Ph.D. studies. In the Program, students will have the opportunity to enhance their preparation for regular graduate work through a coordinated research program with an individually assigned faculty adviser and mentor. Additionally, students will be supported by the Program Director, who will provide needed counsel and advice.

Entering students must be either juniors or seniors majoring in one of the participating departments (see below). Annual research grants will be provided for each student as well as a maximum \$2,000 scholarship for students who have unmet needs as determined by the federal Financial Aid guidelines.

Upon successful completion of the baccalaureate degree, students will be admitted to Wayne State's graduate program. The graduate award will consist of tuition, a monthly stipend at the Graduate Teaching Assistantship level, and medical benefits. The University will insure that financial support will continue for a total of five years, as long as the student meets the department's academic standards for completion of the doctoral degree.

The Program enrolls students in the following six departments: Biological Sciences, Chemistry, English, Political Science, Psychology, and Sociology. For additional information please contact the Program Director, Tessie Sharp, 4137 Faculty/Administration Building; 577-2309.

International 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 \$16,000 per calendar year (two semesters or nine months) 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.

Graduate Admission

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).

Exceptions to the above may be made only by the Graduate Dean based upon a substantive recommendation from the departmental graduate committee chairperson, college graduate officer, or the Wayne State University English Language Institute. Dr. Bruce Morgan, Director of the English Language Institute, administers a TOEFL equivalent with a writing sample. Call 577-2729 to schedule this examination.

For further information on the English Proficiency policy, please consult the Office of University Admissions, 3E Helen Newberry Joy Student Services Building (313-577-3577).



University Centers and Institutes

The following five University Centers have programs pertaining to undergraduate study. For a complete list of Centers and Institutes, see the Wayne State University Graduate Bulletin.

African American Film Institute

51 W. Warren; 313-577-7710; 313-577-2321
Co-directors: Robert Burgoyne and Michael T. Martin

The African American Film Institute was established in 1995 to promote the study of African American film and filmmaking at Wayne State. Conceived as an interdisciplinary center drawing on several different areas of strength and interest within the University and the Detroit metropolitan intellectual and cultural community, the Institute's complimentary functions support its academic mission and bring scholars, filmmakers and students together in productive collaboration. Through the production and dissemination of scholarly research, the collection and preservation of films, documents and archival materials, exhibitions, symposia, and public programs, the Institute's activities are organized to support its academic programs, including an envisioned training program in film production especially for, but not exclusive to, minority filmmakers.

An undergraduate minor concentration in African American film studies is available; for information, contact the Co-directors of the Institute. Graduate-level courses, offered in several departments, include:

- AFS 580 — (FLM 580) Third World Cinema
- ENG 504 — Film Criticism and Theory
- ENG 505 — Studies in African American Film (FLM 505)
- ENG 506 — Styles and Genres in Film (FLM 506)
- ENG 507 — Topics in Film (FLM 507)
- SPF 502 — Studies in Film History
- SPF 506 — Documentary and Non-Fiction Film

Center for Chicano-Boricua Studies

3324 Faculty/Administration Building; 313-577-4378
Director: Jose Cuello

The Center for Chicano-Boricua Studies is a multi-service unit engaged in teaching, research, and service.

Teaching: The Center's academic component consists of the freshman year program, and the Chicano-Boricua Studies (CBS) Co-Major program. The freshman program extends equal educational opportunity to Latino high school students in the Detroit metropolitan area and offers a curriculum which is socially and intellectually directed to the Latino experience in the United States. The CBS Co-Major program is designed particularly for students who plan to work with Latino communities.

Research: The Center's research effort is in education and the social sciences as they relate to Spanish origin groups in the United States.

Service: The Center serves both the University and the Latino community. Center personnel sit on various local and state committees, task forces and commissions concerned with the Spanish-speaking community.

Center for Legal Studies

171 Law School Annex; 313-577-3947
Director: William Volz

The Center for Legal Studies pursues three main objectives: to promote interdisciplinary communication and collaboration among Wayne State faculty who share research and teaching interests in law and law-related fields; to encourage and facilitate interdisciplinary research on topics related to the law; and to promote and enhance opportunities for the interdisciplinary study of law at the undergraduate and graduate levels.

To accomplish these objectives, the Center offers an undergraduate Minor in Legal Studies; promotes combined graduate degree programs in law and related fields; encourages interdisciplinary study by law students and others; provides faculty with information on funding opportunities for law-related research; maintains a faculty interest profile; and sponsors and plans lectures, conferences, and workshops. The Center administers awards for Wayne State faculty research offered through the Richard J. Barber Fund for Interdisciplinary Legal Research. It also sponsors visiting lectures by academic and professional scholars. Through these activities, the Center serves not only the Wayne State academic community, but also the public at large in the Detroit metropolitan area, southeastern Michigan, and throughout the state.

The Center maintains a home page on the World Wide Web which provides information about its programs and activities. (The address is: <http://www.science.wayne.edu/~law/center.html>) Individuals and organizations interested in the Center's programs and activities are encouraged to contact the Center to obtain more information.

Center for Peace and Conflict Studies

2319 Faculty/Administration Building; 313-577-3453
Director: Frederic S. Pearson

The Center for Peace and Conflict Studies provides programs devoted to the resolution of conflict in all contexts, from the local community to the international system. Under the direction of an interdisciplinary executive committee, projects are developed that contribute to the exploration of the social and political problems of our time. The Center serves as the base for an undergraduate co-major in peace and conflict studies.

Detroit Council for World Affairs: The Council is the community arm of the Center for Peace and Conflict Studies and presents activities for adults on crucial world issues and domestic and international conflict. The Council serves as a link between the University and the community in the greater Detroit metropolitan area. Members of the public may join the Council to participate in Center and Council activities.

Center for Urban Studies

3054 Faculty/Administration Building; 313-577-2208
Director: Diane R. Brown

The Center for Urban Studies is an interdisciplinary research, training and service organization focusing on contemporary society. The Center's major activities are: (1) research and evaluation in a number of areas related to urban issues, and (2) to act as a resource agency for University and community groups. The Center sponsors seven ongoing programs: (1) the City/University Consortium (C/UC), a jointly funded project of the City of Detroit and Wayne State designed to work on practical problems and needs within requesting municipal departments; (2) the Economic Development Center (EDC), which conducts research on economic, community and commercial development problems; (3) the Michigan Metropolitan Information Center (MIMIC), a unit which researches demographic, social and economic issues and is an important source of U.S. census information for local businesses; (4) Survey and Evaluation Services (SES), which specializes in survey and evaluation research design and data collection and analysis; (5) the Technology Transfer Center (TTC), which provides manufacturers, entrepreneurs and inventors with access to the technical problem-solving resources of Michigan's leading universities; (6) the Urban Families Program (UFP), a unit which serves as a forum for professionals concerned with family and children's issues, and administers demonstration and model programs; subsidiary to the UFP is the Detroit Family Project, which offers a variety of parent education programs through City of Detroit health clinics; and (7) the Urban Transportation Institute, which is concerned with transportation planning and engineering, including public transportation, traffic engineering and safety, and transit operations and finance. The Center also offers student internships, graduate assistantships, and experienced consultation on research projects.

UNIVERSITY STUDENT SERVICES

Office of the Vice President for Student Affairs

470 Student Center; 577-1992

Among the major duties of the Office of the Vice President for Student Affairs 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 student enrollment services, student personnel services, 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.

The Division administers the University's undergraduate recruitment, and, through a variety of specialized programs and services, assists students in the successful pursuit of their educational objectives. The Division assists the student who may be educationally underprepared through a highly structured retention program utilizing the various academic components within the University. 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. The Division also supervises the Office of the University Ombudsperson. 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 is committed to the quality process and promotes the continual improvement of services provided to students and others.

Office of University Admissions

3 East, Helen Newberry Joy Student Services Center; 577-3577

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; and it organizes visits to local high schools and community colleges. Services offered to students include walk-in advising for students interested in Wayne State.

Office of the Registrar

2 West, Helen Newberry Joy Student Services Center; 577-3550

The Office of the Registrar supports the instructional mission of the University and, to a lesser extent, the mission of research and professional service. The Office coordinates, supplements and facilitates the activities of the faculty responsible for the implementation of the instructional process; administrative services are provided as well to the Vice President of Student Affairs, the Assistant Vice President for Enrollment Services and related offices.

The Office consists of three separate units: Student Records, Registration and Scheduling, and Student Services and Information Systems. Student Records is responsible for maintaining students' academic permanent records, student grades and enrollment certifications. The Registration and Scheduling unit is responsible for processing students' registrations and Drop/Add Forms, the accurate

assessment of tuition and fees, preparation of the Schedules of Classes and Final Examination Schedules, assigning of classrooms and the determination of students' residency statuses for purposes of computing tuition. The Student Services and Information Systems unit is responsible for graduation processing, issuing transcripts, the development and implementation of the office's systems and procedures, and preparation and dissemination of student enrollment reports in response to internal and external requests for enrollment data.

Office of Scholarships and Financial Aid

3 West, Helen Newberry Joy Student Services Center; 577-3378

The Office of Scholarships and Financial Aid helps students and parents meet the major educational expenses of tuition, fees, books, supplies, room, board and transportation. As steward for private, University, state and federal student funds, the Office is held to strict rules of accountability in the interpretation of University and outside guidelines for awarding loans, grants, scholarships and employment.

Applicants for aid should file their applications by May 1 for the following academic year. For additional information, see page 21; and telephone: 577-3378.

University Advising Center

2 East, Helen Newberry Joy Student Services Center; 577-2680; for appointments: 577-8889

The University Advising Center's staff members advise all students with undeclared majors and most pre-professional students. Using professional advisers, the Center helps students identify their curricula, select courses, understand and negotiate the institution's rules, regulations and requirements, and resolve probationary issues. In addition, the Center maintains a Study Abroad Resource Center, operates the orientation program, houses pre-medical credential files, facilitates the early progress assessment (academic alert), and publishes the student handbook. For further information, see page 38.

University Counseling and Placement Services

652 Student Center; (313) 577-1141; Fax: (313) 577-0617

University Counseling and Placement Services helps students promote individual development in ways which will maximize benefits from the University experience, and help them develop career direction and find ways of coping with problems which interfere with their career and education attainment. It also provides help to students and alumni in defining career and employment goals and assists them in their search for employment opportunities. Further, support is provided to students in enhancing their basic academic skills, study efficiency, and/or special needs associated with their handicaps. Individual assistance and non-credit courses in college and career orientation, reading efficiency, and study skills are offered.

To meet the diverse needs of students, there are four service areas within Counseling and Placement Services: Career and Personal Development; Placement; Academic Development; and Testing, Evaluation and Research. The following services are provided:

CAREER and PERSONAL DEVELOPMENT

573 Student Center; (313) 577-3398; Fax: 577-3257

Life/Career Development Laboratory, 567 Student Center, 577-3241 The Laboratory is a 'stop-in' service which offers interactive computer career guidance programs, a variety of occupational information resources, referrals to alumni/mentor contacts and to volunteer career experiences, and individual consultations. *UCS 0991, Designing Your Future*, is a non-credit career development course which affords students the opportunity to explore the world of work and careers while gaining skills in decision making and establishing personal career goals.

Career and Personal Counseling Services, 573 Student Center, 577-3398: This service provides students with special opportunities for consultation about needs or concerns for which individualized help is desired. Any facet of experience which affects a student's educational progress may be explored with the professional counseling staff. Counseling may help students to clarify for themselves their own identity and relationship with the social, educational and occupational world, to explore opportunities for personal and self-esteem development, to set and realize goals and to resolve motivational and other personal conflicts. In addition to confidential private consultation, a number of psychological education group workshops on common issues are offered, and services are available for emergency situations.

Lesbian, Gay and Bisexual Services, 573 Student Center Building, 577-3398: This service provides various types of assistance to lesbian, gay and bisexual students, staff and faculty. Services include: individual, couple, and group counseling for personal and career development; discussion and support groups in which to explore personal concerns and discuss issues with others; educational presentations to classes, student groups, and conferences that address sexual orientation, discrimination, and other issues; information and referrals to local, state, and national organizations; and special events and programs throughout the year.

Women's Resource Program, 573 Student Center, 577-4103: The Women's Resource Program offers services for students, staff, faculty, and community persons and is open to men as well as women. Information and referral services include subjects such as: legal issues, health care, child care, emergency assistance, family services, education and training programs, personal counseling, career information, women's groups, events, legislation regarding women's issues, financial aid, and academic research related to women's needs.

Minorities Resource Program, 573 Student Center, 577-4103: The Minorities Resource Program offers services oriented to the needs and concerns of various minority populations, including ethnic minorities and alternative lifestyle minorities. Participation is open to everyone. Services include information, resources, and referrals regarding University procedures and policies, academic support services, personal and career counseling, professional and graduate school information, scholarship information, and family and personal needs. The Office also publishes the biannual *Minorities Resource Directory*.

Re-Entry to Education Program, 573 Student Center, 577-4103: This program provides service to people of all ages who have interrupted their formal education and who want additional education, specialized training, or academic degrees. Information is provided on admission, financial aid, child care, social services, legal services, and health care services. Referrals are provided on academic services (mathematics review, writing skills, test preparation, and the like), career information (such as prospective salary, job-market potential, and how to choose a career), and for personal counseling.

Wayne Excel Summer Academy, 573 Student Center, 577-2006: This program helps 'at-risk' students make a successful transition from high school to college. Students also participate in personal development and survival skills activities, tutoring, and employment opportunities related to their chosen career objectives.

PLACEMENT SERVICES

1001 (First Floor) Faculty/Administration Building; (313) 577-3390; Fax: 577-4995

Cooperative Education: Cooperative Education is primarily an undergraduate program which provides comprehensive professional preparation by means of alternating semesters of full-time, paid work experience and full-time class attendance. The program is available to students in business administration, engineering, and selected majors from the Colleges of Liberal Arts, Science, and Fine, Performing and Communication Arts.

Summer Internships: The Summer Internship program provides opportunities for career-related paid summer intern positions.

Summer employment workshops are provided from November to March to help students prepare for the job search. Preprofessional positions are available throughout the United States with a wide range of employers.

College Work-Study: Students who receive College Work-Study awards through the Office of Scholarships and Financial Aid can visit the placement office to find College Work-Study job openings. Placement assistance is provided in matching students' interests with employers' needs.

Student Employment: The Student Employment Program provides part-time employment opportunities to students enrolled at the University. The policies and procedures of the Program are described in the *Student Guide to On-Campus Employment*. Part-time jobs, either on a seasonal or continuous basis, are available on-campus through the Student Assistant Program or off-campus through an open posting process or with the assistance of a placement coordinator.

On-Campus Interviews: Assistance in obtaining full-time employment after graduation is provided. Graduating seniors may increase employment opportunities through interviews with any of several hundred employers who visit the campus annually.

Michigan Collegiate Job Fair: State-wide, one-day job fairs are available in November and March of each year for Wayne State students and graduates. The events, jointly sponsored with Eastern Michigan University, each attract 150 varied employers and about 1000 students from over fifty colleges and universities in Michigan.

Job Bulletin, Resume Referral, and Credentials: A Job Bulletin, listing all full-time positions received by Placement Services, is available to students and alumni. It is published every two weeks and is mailed directly to subscribers. A resume referral service offers recent graduates and alumni a continuous means for referring their resumes directly to the employers who regularly list opportunities with the service. Master's and doctoral graduates who intend to teach, as well as graduates in nursing, social work, criminal justice, and allied health professions may establish a professional credential file, which prospective employers of these majors generally require of applicants.

Placement Resource Center: The Center contains general information on over 1,000 employing organizations. The material is classified and shelved according to primary products or services rendered. Books on job-hunting, interviewing, resume writing, and government employment, and directories of associations are also available. A collection of videotapes containing information about various organizations, interviewing techniques and career-related information is available for viewing. Computerized job listings are available for student use.

Additional Services: Annual surveys of Wayne State graduates are conducted to determine the kinds of jobs and salaries obtained by former students and the satisfaction they feel about their jobs. A speakers' bureau is available to community, faculty and student groups, giving information on employment, resumes and interviewing techniques. Michigan Employment Security Commission (MESCC) Job Service representatives are available daily to provide students, alumni and veterans with information about and referral to employment vacancies listed with the Job Service.

ACADEMIC DEVELOPMENT

598 Student Center; (313) 577-3165; Fax: 577-0617

Reading and Study Skills Learning Center, 598 Student Center, 577-3165: This Lab helps students develop the learning process skills necessary to achieve realistic educational goals. 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, and they are delivered via multi-media instructional modes. The Lab also offers programs coordinated with academic departments, preparation for

examinations required for entrance to graduate and professional schools, and programs for specially-targeted student populations.

Supplemental Instruction, 598 Student Center; 577-3246; and Tutorial Program, 598 Student Center; 577-4045: Two types of tutoring are available through Academic Development to assist students in their course work. Supplemental Instruction (SI) and the individual Tutorial Program provide trained and experienced SI leaders and peer tutors to assist students. SI provides an experienced student (SI Leader) to organize and facilitate group study sessions, primarily in first-year introductory courses. The individualized Tutorial Program is based on priority availability to selected student populations. A *Tutorial Resource Guide* is available to all students, which highlights the tutorial services throughout the campus.

Handicapper Educational Services: 583 Student Center, 577-1851: 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 person 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. For scholarships available as a function of this Office, see page 25.

TESTING, EVALUATION and RESEARCH

698 Student Center; (313) 577-3400; Fax: 577-0617

Testing Services: 698 Student Center, 577-3400: Testing is provided to students for entrance examinations, credit by examination through the College-Level Examination Program, qualifying examinations for course election, proficiency examinations, examinations for fulfillment of University General Education Requirements, and tests required by professional associations and licensing agencies.

Testing service for graduate and professional school admission is also available, as are services to faculty and academic personnel. These include preparation of class reports based on teacher-made tests or qualifying examination data, consultation on commercially-available test programs or on the construction of course examinations, and scoring of departmental exams. An undergraduate retention database is maintained for the University by Testing Services; and research studies are undertaken for planning student services and resources.

Course Evaluation Office, 684 Student Center, 577-0469: This Office coordinates the Student Evaluation of Teaching project. The Office staff distributes, collects, and processes the forms used to evaluate courses and instructors each term and produces individual and department-level reports based on the data collected. The staff also advises on design and use of survey forms tailored to individual needs.

International Services Office (ISO)

5460 Cass Avenue, second floor; 577-3422; Fax: 577-2962

Internationals from across the world choose to study at Wayne State. This Office strives to make their educational experience a rewarding one and assists international students and other internationals on campus to adjust to the United States and Wayne State University, as well as to learn to communicate across cultures. The ISO provides individual counseling, visa advising, issuance of immigration documents, enrollment and expense letters, information about on- and off-campus employment for internationals (including practical training), and emergency loans. It also arranges cultural excursions, informational seminars, campus and community programming, and other special services to help international students achieve their personal and educational objectives.

Non-Immigrant Visa Students: The Immigration and Naturalization Service (INS) regulations require that all students on temporary visas pursue their studies on a full-time basis at the institution they have

been authorized to attend. Undergraduate students (including those with Post-Bachelor's status) must successfully complete at least twelve credits each semester (excluding an approved annual vacation). Graduate students (including those in pre-master's status) must successfully complete at least eight credits each semester (excluding an approved annual vacation). See an International Services Office counselor for details on complying with this and other INS requirements.

All non-immigrant international students must check in at the ISO, complete a data sheet, and show their immigration documents before registering for classes. 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 ISO 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 United States Information Agency (USIA), and may not be able to change their visa status until they comply with a requirement that they return to their home country for two years.

Commuting Canadians enrolled less than full time must obtain a border-crossing letter from the ISO and should consult with an international counselor at the ISO to determine the impact of any reduced enrollment and this type of document on future immigration benefits including availability of practical training.

All internationals on non-immigrant visa status are expected to maintain current, valid immigration documents and passports and to have adequate financial support during their stay in the United States. The University is required by INS and USIA regulations to file reports in cases of non-compliance with various aspects of immigration law relating to the stay and employment of non-immigrants on campus. The ISO must also report to the USIA on reciprocity of exchanges and other related issues. International students should maintain their status to assure future visa issuance and other immigration benefits.

American students, faculty and staff are encouraged to report on their travel abroad to the ISO, to assist the office in providing detailed information on exchange activity on-campus to the federal government.

Scholars, trainees, researchers, faculty, and other employees from abroad are often involved in University programs to promote interchange, mutual enrichment, and linkages between research and educational institutions in the United States and foreign countries. The University provides foreign professors and research scholars with opportunity to engage in research, teaching, and lecturing with colleagues at Wayne State; to participate in cross-cultural activities; and to share their experience and increase knowledge about the United States, Wayne State University, and the metropolitan Detroit community.

The International Services Office provides centralized support services necessary to enable and assure the employability of such non-U.S. citizens, and others employed to meet specialized staffing needs, within governmental regulations. Offers of employment to non-resident aliens must be authorized by the ISO, and only this office may sign immigration forms and petitions related to employment on behalf of the University. All international employees must complete INS Form I-9, 'Employment Eligibility Verification,' and present evidence of their identity and employment eligibility at the International Services Office before commencing employment at Wayne State University.

Health Insurance: International students as a condition of enrollment, and all J-1 exchange visitors and their dependents holding J-2 status are required to comply with the health insurance requirements of the University. Insurance which meets these requirements may be purchased through the ISO. The mandatory international health 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.

Orientation: All international students and J-1 exchange visitors are required to participate in an orientation program offered through the ISO. Orientation is also provided on a voluntary basis for the J-2 dependents of exchange visitors and for all other internationals on campus.

Cross-Cultural Activities: The ISO provides cross-cultural activities both on and off campus, in order to provide the broadest exposure to American society, culture, and institutions. Activities include: field trips, tours, stays with American host families, holiday programs, the International Fair, and a free international coffee hour held on 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 internationals, American students, and community sponsors.

Office of Military and Veterans Affairs (OMVA)

5460 Cass Avenue, Second Floor; 577-3422; Fax: 577-2962

Veterans and dependents (including children and widows of veterans) have an excellent resource in this office, which determines eligibility for such programs as the Veterans Educational Assistance Allowance, and certifies veterans for educational benefits available under the Montgomery GI Bill (Chapter 30), the Reserve GI Bill (Chapter 106), V.E.A.P. (Chapter 32), educational assistance provided to active-duty personnel (under Chapter 30), and other related federal and state government programs.

Knowledgeable counselors will be glad to discuss individual educational goals and problems, as well as to meet with groups of veterans. All veterans must contact this office at registration time in order to be certified for their educational benefits.

Standards of Academic Progress: The minimum academic level for continued benefit eligibility is a cumulative honor point average of 2.0 for undergraduate students, and 3.0 for graduate students. Students with a cumulative h.p.a. below the applicable minimum will be placed on probation. Failure to raise the cumulative honor point average to the acceptable minimum after two semesters on probation will result in termination of V.A. benefits. Information on restoration policies and requests should be directed to an OMVA counselor.

A student receiving veterans' benefits who is given a failing or other non-punitive grade or mark indicating unsatisfactory performance must inform the University Veterans Certification Office (OMVA) in writing of the last date of attendance in that class or classes. Failure to notify the OMVA will result in the OMVA informing the U.S. Department of Veterans Affairs (DVA) that the last date of attendance in the class(es) was the first day of the class.

Changes in Program: Individuals contemplating a change of program should contact the OMVA. Program changes require notification of the DVA. Forms for communicating this information are Form 22-1995 for veterans and service personnel, and Form 22-5495 for survivors and dependents.

Students applying for a *second or subsequent change in program* must also submit Form 22-8873, Supplemental Information for Change of Program, with their other required change application, along with evidence that the proposed program is commensurate with their aptitudes, interests, and abilities.

Students who have earned at least 130 credits must complete the Excess Hours for Graduation memorandum, signed by the academic adviser, in order to be eligible for veteran benefits.

Changes in Enrollment: Students who change their enrollment during any semester must *immediately* notify the certifying officer at the OMVA by completing the DVA Eligibility Certification Card ('blue card'). The OMVA must be notified of all course additions and drops, including complete withdrawal from all courses, in order to prevent

liability for overpayment of benefits. Students must also notify the OMVA when a course is not completed or unofficially dropped. A student who is receiving benefits and fails to withdraw officially, or who walks away from a class or classes without notifying the OMVA in writing will cause the OMVA to inform the DVA that the last date of attendance was the first day of class.

Advance payment for the initial month or partial month may be obtained by eligible students who register for half-time study or more. The advance payment will be sent to the OMVA. In order to be eligible for an advance payment, students must file their request thirty days prior to the first day of the semester. If a student receives advance payment, and subsequently registers for an amount of credits which makes him/her ineligible for the advance, the check must be promptly returned to the OMVA.

DVA Vocational Rehabilitation: Vocational rehabilitation programs help service-disabled veterans to select, prepare for, and secure work that is in line with their personal goals, interests, abilities and physical capabilities.

DVA Tutorial Assistance: Tutorial assistance is available to help defray tutoring costs for eligible persons. Veterans must be enrolled on a half-time basis or above. Currently, tutorial benefits are paid up to a maximum monthly benefit of \$100, for a maximum total benefit of \$1,200 with no charge against a basic entitlement.

DVA Work-Study Jobs: Part-time student assistant positions are usually available on campus at the OMVA, at the DVA Regional Office, or at a DVA hospital. Full-time students who qualify may work up to twenty hours per week, are limited to 250 hours per semester, and receive the federal minimum wage; these wages, as of the time of printing of this Bulletin, are not subject to federal taxation.

Academic College Enrichment Services (ACCESS)

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

ACCESS provides academic assistance and support services to promising youth and adults in the metropolitan Detroit area who have been historically under-represented in college due to their economic condition, racial/ethnic 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 postsecondary admission of the diverse population groups which 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 educational achievement of its participants as well as to further the urban commitment of Wayne State University.

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

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 College Day Program, 345 Manoogian Hall, 577-3085, offers motivational

and informational activities and college visitations 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, 701 West Warren, 577-1943, provides students who are potential first-generation college students, currently in grades 9-12 of designated Detroit high schools, 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), 3127 East Canfield, 571-9500, 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 and Program Activities

Director: 341 Student Center; 577-3482

Assistant Directors: 351 Student Center; 577-3444

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 consists of program, service, and facility components, operating 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 commuting daily to and from the campus. 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 comprised mostly of students. The major facilities, programs and services of the Student Center include:

Food Service: The Student Center provides a selection of food service options for the campus community. Students, faculty, and staff can dine at 'Little Caesar's,' 'Friar Tuck's/Taco Bell Express,' 'Tubby's,' or 'Baskin-Robbins' on the first floor, or at the 'A & W' or 'Coffee Beanery' 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: Located in 101 Student Center, this station provides the following U.S. Postal Services Monday through Friday, 9:00 a.m. to 4:00 p.m.: postage stamps, express mail, certified/registered mail envelopes, postcards, and package handling.

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

Service Center: Located in 211 Student Center, the Service Center provides the following services for a fee: typewriter rental, duplicating service, SMART and DOT bus tickets, laminating service, overnight

photo-finishing service, international identification cards, Fax service, drop box for *South End* classified ads, and State Hall locker rental. In addition, the University Lost and Found and student organization mail boxes are located here. Campus bulletin board postings are also done by the Service Center staff. Notary Public service and personal mailboxes are available.

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

Reservations: Rooms and audio-visual equipment are available for meetings, seminars, conferences and special programs. Bake sale lottery, dance lottery, literature table and showcase information is also provided by the Reservations Office, located in 333 Student Center.

Business Office: Located in 217 Student Center, the Business Office houses the Student Center's Accounting Administrator and Business Manager. Responsible for maintenance of Student Center accounts, Student Center personnel processing, and allocation of student organizations' general fund and agency accounts. It also provides Notary Public service at no charge to students, faculty and staff.

Program Activities

Student Organizations: There are approximately 200 active student organizations including such diverse categories as academic/professional, social action, political, sororities/fraternities, honoraries, ethnic and religious groups, as well as student governments. The *South End*, the official student newspaper, is published daily during the academic year. Student activities advisers are available to assist students who want to organize new student groups. The staff coordinates various programs such as the International Fair, Student Organizations Day, Commencement Corps, Holiday Bazaar, leadership training, WSU Diplomats Club, Project Volunteer, and Alternative Spring Break.

Student Resource and Assistance Center: 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 9:00 a.m. to 6:30 p.m., Monday through Thursday, and from 9:00 a.m. to 3:30 p.m. on Friday during the fall and winter semesters. Summer hours are Monday through Thursday, 9:00 a.m. to 5:00 p.m.; Friday, 9:00 a.m. to 3:30 p.m. Information available in the Center includes: University academic programs and services; off-campus housing information; campus activities; Share-a-Ride Board; travel information; campus weekly and monthly calendars; job postings; SMART and DOT bus schedules; Ride-Share Carpool program; community activities; community service opportunities; tutor and typist lists. The Center also sponsors informational and entertainment programs such as Hallo-Wayne, The Dating Game, Wayne Winter Week, Health Day, Spring Travel Fair, and Study Abroad Open House.

Weekly Programs: Each week during the academic year, Student Center and Program Activities offers a variety of different programs for the general student population. These programs include: the Wayne Underground Music Series, on alternate Wednesdays; and Multiformity: An Entertainment Series, on Thursdays.

Student Council

395 Student Center; 577-3416

The Student Council is the recognized student government of Wayne State University. It consists of twelve members, elected in a university-wide election, plus one student representative elected by each college and school. The Student Council has an official advisory responsibility in policy formation for the governing of student activities at Wayne State. The Student Council appoints Council members and student volunteers to sit on several University committees; students interested in serving on a committee should contact the Council office.

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's students and its intercollegiate athletic teams are known as the 'Tartars.' According to the American College Dictionary, a 'tartar' is a savage, intractable person, one who proves unexpectedly troublesome or powerful.

Wayne State students can avail themselves of excellent recreational opportunities in sports and physical activities which are available on campus. 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 due to scheduled classes, intramural activities and varsity athletics. Lock and towel services are available for students. For additional facility information, visit the Tartar Shop, in the Matthaei Building; or call: 577-4295.

Intramural activities are also available for students. Activities offered include basketball, touch football, racquetball, soccer, tennis, table tennis, volleyball, and vallyball. For sign-up information or schedules, visit the Intramural Office, 127 Matthaei Building; or call: 577-4278.

The University sponsors fifteen NCAA Division II intercollegiate teams. There are eight men's sports—baseball, basketball, cross country, fencing, football, golf, swimming and tennis; and seven women's sports—basketball, cross country, fencing, softball, swimming, tennis, and volleyball. Wayne State's football team is a member of the Midwest Intercollegiate Football Conference, comprised of eleven teams in Michigan, Ohio, Indiana and Illinois. Except for men's and women's fencing, which are non-affiliated, all of Wayne State's other intercollegiate teams participate in the Great Lakes Intercollegiate Athletic Conference (GLIAC). Members of the GLIAC are: Ashland, Ferris State, Gannon, Grand Valley State, Hillsdale, Lake Superior State, Mercyhurst, Michigan Tech, Northern Michigan, Northwood, Oakland, Saginaw Valley State, and Wayne State. Students are admitted at a reduced rate for regularly-scheduled basketball, fencing, football, swimming, and volleyball contests by presenting their University ID card. Admission is free for all other intercollegiate contests. Ticket and schedule information is available at the Athletic Office, 101 Matthaei Building; or call: 577-4280.

ADDITIONAL UNIVERSITY SERVICES

Computing & Information Technology (C&IT) Division

5925 Woodward Avenue; (313) 577-4778
<http://www.pass.wayne.edu/cit.html>

Computing & Information Technology's mission is to support and enhance the academic and administrative activities of Wayne State University, and to enable the University to be a major force in revitalizing the Detroit metropolitan area. To fulfill its mission, C&IT provides computing, information processing, and communications resources to satisfy the needs of students, faculty and staff, and offers comprehensive support services to help them use technology effectively and creatively. C&IT also makes its resources and services available to individuals and organizations striving to improve the quality of life in the metropolitan area.

C&IT is dedicated to actively seeking input from its customers, understanding their needs and challenges, and working with them to implement appropriate solutions. In its leadership role, C&IT is committed to creating and nurturing the vital information technology environment required for Wayne State University to achieve its vision of excellence in teaching, national prominence in research, and success in revitalizing and redeveloping the community it serves.

General-Purpose Computer Labs: Wayne State students and members of the Alumni Association can use two general-purpose computer labs located on the lower levels of the Science and Engineering Library (313-577-5805) and the Student Center (313-577-5485). These computer labs contain both Macintosh and DOS/Windows microcomputers with PostScript/laser and ink-jet printers and a full range of general-productivity software and Internet applications. (Call for current programs and versions and for lab operating hours, or access their Web site at <http://www.ascl.wayne.edu/>.) Help files on a variety of subjects are in these, in addition to software user manuals that are kept at the lab information desks for reference. C&IT does not charge for using the computers, software, or ink-jet printers at any of its computer labs.

Research Support Laboratory (RSL) and Research Consulting: The RSL is a fully-equipped computer lab where Wayne State students can obtain comprehensive support services (from one-on-one consulting to group seminars) on the use of computer technology at any phase of the research process: design, implementation, analysis, or final presentation. Located in 10 Education Building (313-577-5804; <http://www.rsl.wayne.edu/>), the RSL contains: networked Macintosh and DOS/Windows computers and printers (laser and ink-jet); statistical, qualitative analysis, spreadsheet, database, word processing, presentation, graphics, and desktop publishing software that is fully supported by RSL staff; user manuals for available software; research-oriented textbooks; and a selection of site-licensed statistical software for lease. Other equipment includes a scanner, a six-color plotter, film and CD recorders, and both CD-ROM and videodisc technology. Student groups can reserve the RSL and its microcomputers free-of-charge for a workshop or class (313-577-4740).

Network Access: Wayne State students can access WSUnet, Wayne State's data communications network, and the global Internet via MichNet, the regional network provided by Merit Network, Inc., in the following ways:

- a) from a microcomputer in any C&IT computer lab and in many other computer labs on campus; and
- b) using a microcomputer with a high-speed modum, PPP communications software, and a MichNet Access ID.

To obtain a required MichNet Access ID and public domain software or shareware for accessing MichNet, WSUnet, and the Internet, contact the C&IT Help Desk (see below).

Electronic Mail: By the 1997-98 school year, C&IT will provide free electronic mail accounts for all Wayne State students. For details about obtaining and using e-mail at Wayne State, go to one of C&IT's general-purpose computer labs.

Central/Shared Computing Resources and Services: A variety of centrally-provided computer systems and servers are available for shared use by Wayne State students for educational purposes. In addition, a CRAY J916 supercomputer is available to faculty, post-doctoral students, and academic staff for research purposes. Contact the C&IT Help Desk (see below) for assistance in accessing and using shared systems for academic or research computing and information technology needs.

Help Desks (for using computers and accessing networks): The C&IT Help Desk in room 58 Science and Engineering Library (lower level) provides telephone service at 313-577-4778 (M - F, 8 a.m. - 6 p.m.), walk-in and by-appointment services (M - F, 10 a.m. - 6 p.m.), and online services (see below) to help Wayne State students:

- access MichNet, WSUnet, and the Internet with a microcomputer, modem, and supported communications software;
- use electronic mail and other central/shared computing resources and services at Wayne State;
- use general-productivity software on microcomputers;
- troubleshoot problems with microcomputers; or
- use or obtain information about any of the resources and services that C&IT provides.

C&IT Help Pages or the World Wide Web contain information about how to access and use C&IT's resources and services, download software, and submit questions or service requests online. In addition, these pages include links to other helpful WWW sites (<http://www.pass.wayne.edu/help/help.html>).

Wayne State students may also contact the *Network Help Desk* 24 hours a day, seven days a week by phone (313-577-4746) or on the Web (<http://www.ucomm.wayne.edu/~noc/noc.htm>):

- to report that a dial-in connection to MichNet or the Internet was dropped;
- if you suspect a network problem;
- or if you are having trouble connecting to MichNet, the Internet, or a central/shared computer system or server at Wayne State.

Microcomputers and Software: Wayne State students can obtain information about purchasing microcomputer hardware and software at educational discounts from the C&IT Help Desk or the C&IT Help Pages on the WWW (see above). WSU students can also obtain public domain software and shareware for accessing and using networks and networked resources and for virus protection from the C&IT Help Desk, its WWW pages, or software copy stations in C&IT's computer lab in the Science and Engineering Library. (Bring formatted diskettes.)

Campus-wide News and Information Service: An electronic Campus-Wide Information Service (CWIS) — available 24 hours a day, seven days a week — provides Wayne State students with a wide range of news and information about the University from a growing number of its schools, colleges and divisions, and provides links via the Internet to thousands of information systems at other universities, government agencies and commercial services. C&IT maintains both a World Wide Web (<http://www.wayne.edu/>) and a Gopher (gopher.wayne.edu port 70) component of the University's CWIS. For access information or assistance, or to obtain public domain WWW or Gopher software, contact the C&IT Help Desk (see above).

Multimedia Computer Classroom: C&IT provides a multimedia computer classroom for faculty and instructors to use free-of-charge for hands-on computer training or class presentations. Located in a fully-enclosed section of C&IT's computer lab in the Science and Engineering Library, this computer classroom is equipped with a

ceiling-mounted, remote-controlled color video projector that displays images onto a large screen from a Macintosh or DOS/Windows microcomputer, a VCR, or a CD-ROM. A remote-controlled 35mm slide projector and a videodisc player also are available. A local area network in this classroom connects fifteen Macintosh and fifteen DOS/Windows computers with CD-ROM drives to a shared file server, shared printers, central/shared computing resources, external networks, and the same general-purpose or specialized software available in the lab. Faculty and instructors can call (313) 577-4730 for a reservation (on a first-come, first-served basis).

Television Transmission Services: C&IT's University Television department transmits the *College Cable Channel*, which provides distance education services for Wayne State and several other colleges and universities; programs, schedules, and transmits *The Working Channel*, a joint community channel between Wayne State and WTVS/Channel 56; works with WXON/TV20 to produce *Studio Detroit*, a weekly talk show that features Wayne State faculty as guests; coordinates reception of satellite teleconferences on Wayne State's campus; and produces and broadcasts satellite teleconferences from the University campus.

C&IT Publications: Students can pick up copies of the *Information Technology News*, C&IT's bimonthly newsletter (except in summer), in most computer labs and buildings on campus and in the Student Resource and Assistance Center in the Student Center. It is also available electronically on Wayne State's Campus-Wide Information Service (see above).

The *Computing & Information Technology Resources & Services Guide*, which contains comprehensive current information about accessing and using all C&IT resources and services, in addition to descriptions of C&IT departments and the locations, phone numbers, and operating hours of C&IT offices and services, is also available electronically on the World Wide Web (<http://www.pass.wayne.edu/R&S-long.html>).

C&IT Telephone Numbers of General Interest:

Academic Computing	313-577-5515
C&IT Computer Labs:	
General-purpose in Science & Eng'g. Library ..	313-577-5805
General-purpose in Student Center	313-577-5485
Research Support Laboratory	313-577-5804
C&IT Help Desk	313-577-4778
C&IT Publications & Information	313-577-3614
Computer Classroom Reservations	313-577-4730
Distribution (of centrally-printed output)	313-577-4755
Information Security	313-577-3203
Internet Applications Support	313-577-4620
Network Help Desk/Operations Center	313-577-4746
Printing (from central computers)	313-577-4768
Research Consulting	313-577-5804
Tape Support (for central computer systems) ...	313-577-4760
Television & Video Services	313-577-1111
TV Broadcast Operations	810-547-9370

Health Insurance

Students may choose to purchase hospitalization insurance for a reasonable fee. The policy provides stipulated amounts for hospitalization, surgery and emergency room fees. Forms to purchase this insurance are available by contacting the Benefits Administration Office, 1800 Academic/Administrative Building, 5700 Cass; 577-3717.

Primary Care Nursing Service

5A University Health Center; 745-4774

Students are encouraged to use the Primary Care Nursing Service for health care needs including illness, physical examinations, and family planning. X-rays and laboratory tests can be performed in the University Health Center. There are charges to students for these

services. Visits are by appointment, which may be made by telephoning 745-4774.

Housing Office

700 Merrick; 577-2116

This office administers on-campus housing by the University and provides information about these units to interested students, faculty and staff.

Wayne State Housing offers a variety of apartment dwellings for individuals and families wanting a twelve-month lease.

The University Tower is the newest addition to University housing, with luxury one-, two- and three-bedroom units, with one or two baths. Families are welcome. A computer lab, daycare service, radio station WDET-FM, and meeting rooms are located on the first floor.

The Forest Apartments and the Helen L. DeRoy Apartments are modern, barrier-free high-rise buildings with both furnished and unfurnished apartments. Both buildings feature air-conditioning and permit families with children. Only graduate students, faculty and staff may live in the DeRoy Apartments.

The Chatsworth Towers is an elegant, older building particularly popular with faculty and staff. Most Chatsworth units are air conditioned. Families with children are welcome. Eligibility is restricted to graduate students, faculty, and staff.

The Chatsworth Annex offers spacious, unfurnished two-bedroom units. Families with children are welcome. Residents pay their own utility bills except for heat and water.

The Sherbrooke Apartments is an older building, rented unfurnished. Families with children are welcome.

Further information and application forms are available upon request at the Housing Office.

Office of the University Ombudsperson

470 Student Center; 577-3487; Fax 577-0640

Ombudsperson: Victoria Asmar-Anderson

Ombudsperson: Victoria Asmar-Anderson

The Office of the Ombudsperson exists to assist students, faculty and staff in solving University-related problems. The Office can help students break through bureaucratic issues, 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 Ombudsperson's Office investigates appeals and complaints and exercises independent judgment regarding any action it may take. 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 only 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 Department of Public Safety serves the University community and the area immediately adjacent to the University. Police service is provided twenty-four hours a day, seven days a week. All Public Safety Officers are college graduates and 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 to the Department of Public Safety at any hour of the day or night (76 West Hancock; 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 to the Department of Public Safety, 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 to either Detroit Receiving Hospital or the University Health Center by Public Safety Officers. The Department of Public Safety does not provide ambulance service but utilizes the Detroit Fire Department Emergency Medical Service to handle any injury which is not minor in nature.

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 to the Department of Public Safety.

Crime Prevention (577-6060; 9:00 a.m. — 4:00 p.m., M — F): The Department of Public Safety provides a range of crime prevention services available to any University department wishing to improve its physical security and/or its employees' general security awareness. Examples of services provided are security surveys, Operation Identification, personal and property safety programs for student and employee groups, an engraver loan program to mark property, and alarm system installation assistance and review.

The University has an Equipment Security Policy which requires that an appropriate locking system be attached to all portable property valued at \$500 or more. The Equipment Rental Pool manager should be contacted regarding this service.

UNIVERSITY LIBRARIES

As of 1995, the library system reported holdings of 2,904,641 volumes, 24,785 current journal subscriptions, and 3,374,190 microforms, in addition to numerous films, filmstrips, maps, sound recordings, and videocassettes.

The library system includes the Arthur Neef Law Library, the Federal-Mogul Library Annex, the Purdy/Kresge Library complex, the Science and Engineering Library, the Vera P. Shiffman Medical Library and its Learning Resources Center at the College of Pharmacy and Allied Health Professions, and the Library Services Center at the University's Oakland Center in Farmington Hills. A new Undergraduate Library is under construction, with occupancy expected in 1997. Except for items in special collections and in the library annex, the University collections are housed in open stacks. Further details about these libraries are given below.

Wayne State University is the host institution for DALNET, the Detroit Area Library Network. Through terminals in the libraries, users can access records for over eleven million volumes representing the majority of holdings in the area's educational institutions, including the Detroit Public Library, whose main branch is located near Wayne State. In addition, the University Libraries belong to the Michigan Research Libraries Triangle, a partnership with the Michigan State University and University of Michigan libraries. Students may request expedited interlibrary loans from these libraries that together have over nineteen million books and 122,000 journal subscriptions.

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

Arthur Neef Law Library

Telephone: 313-577-3925

The Law Library is located in the Law School building at the north end of the University campus. The collection of over 525,000 volumes makes it the second largest law library in Michigan. The Library subscribes to over 1,500 journals and 1,000 looseleaf services. An official depository since 1971, the Library holds over 100,000 U.S. government documents including 3,500 current serials. Students and faculty have access to the two major legal databases, LEXIS and WESTLAW, as part of the educational program of the Law Library.

In addition to complete collections of federal and Michigan legal materials, the Library contains the reported cases of the highest courts of all states and territories as well as their statutory compilations, digests and encyclopedias. The Library owns major microform collections of U.S. government publications; colonial, state, and territorial session laws; and the U.S. Supreme Court records, briefs, and oral arguments.

Oakland Center Library Services Center

Telephone: 810-553-6632

The Oakland Center Library Services Center provides services such as document delivery, interlibrary loan, instructional sessions and circulation of materials from main campus libraries. A small collection of course reserves and reference materials is available, as well as access to the databases on LUIS, FirstSearch, LEXIS/NEXIS and the Internet.

Purdy/Kresge Library

Telephone: 313-577-4042

The Purdy/Kresge Library, containing the graduate and undergraduate collections for the humanities, social sciences, business, and education, serves the College of Liberal Arts, the

College of Education, the College of Urban, Labor, and Metropolitan Affairs, the School of Business Administration, the School of Social Work, the Institute of Gerontology, and the Library and Information Science Program. The Purdy/Kresge Library is the largest of the University's libraries.

The Purdy/Kresge Library contains approximately 1.5 million books, 13,000 current journals, extensive microform collections, and the largest government document collection on campus. In addition, the Media Library, located within the Purdy/Kresge Library, provides direct service to students at the Media Desk, including: ordering and previewing 16mm film and videotapes, providing access to the non-journal microfilm and microfiche collections, and duplicating tape and video formats. Media Services provides photographic services, graphic design services, classroom support services, and film rentals.

The Purdy Library also houses the Folklore Ethnic Archive as well as the offices of the Dean of Libraries and Library and Information Science. Orientation tours of the collection and facilities are available for classes or other interested groups.

Science and Engineering Library

Telephone: 313-577-4066

The Science and Engineering Library, established in 1944 as a separate library, serves the College of Engineering, the College of Nursing, and the Departments of Biology, Chemistry, Physics, Mathematics, Computer Science, Food and Nutrition Science, and Geology in the College of Science. In addition, the Library works closely with local businesses to meet their information needs.

The Library contains over 500,000 volumes and currently receives over 3,000 serials. Special holdings include the System on Automotive Safety Information (SASI) collection, a unique resource for transportation safety research, the River Rouge Collection, the Hooker Historical Collection, the Dubprenell Electrochemistry Collection and a large map collection. The Library also houses the Central Technical Services Department of the University Libraries.

Vera P. Shiffman Medical Library

Telephone: 313-577-1088

The Vera P. Shiffman Medical Library is located in the Detroit Medical Center's main campus on Canfield between Brush and John R. streets. Shiffman Library supports the educational, research, and clinical programs of the School of Medicine and the College of Pharmacy and Allied Health Professions, and the research needs of the Detroit Medical Center. The Pharmacy and Allied Health Learning Resources Center, located in Shapero Hall on the Chrysler Freeway (telephone: 313-577-1279), provides instructional support of the College with a computer lab, classroom support and multimedia collections of materials.

The Shiffman Library provides access to MEDLINE and other databases to offices, labs and homes for faculty and maintains a monthly schedule of information literacy workshops about MEDLINE, the Internet, file management, and other topics for health sciences faculty. Two state-of-the-art computer-based learning labs with instructional software are located in the Library, as is a small lab with multimedia development tools for faculty use. The Library has nearly 300,000 volumes with 3,010 journal subscriptions and an outstanding reference collection including a wide range of health and medicine statistical sources.

Undergraduate Library

The new Undergraduate Library Center, expected to be completed in September 1997, will be the gateway for undergraduate students to the University Library System's collections and services as well as to worldwide information resources beyond the campus. It will house the Office for Teaching and Learning and will provide study space, course

reserves, a 24-hour computer study center, and hands-on opportunities for learning to use multi-media and electronic information resources.

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*.

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 have since become the official depository for the inactive files of the Congress 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.



SCHOOL OF BUSINESS ADMINISTRATION

ACTING DEAN: David L. Williams

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 American Assembly of Collegiate Schools of Business 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, finance, management, information systems management, and marketing. Degrees of Bachelor of Science in Business Administration or Bachelor of Arts in Business Administration are awarded.

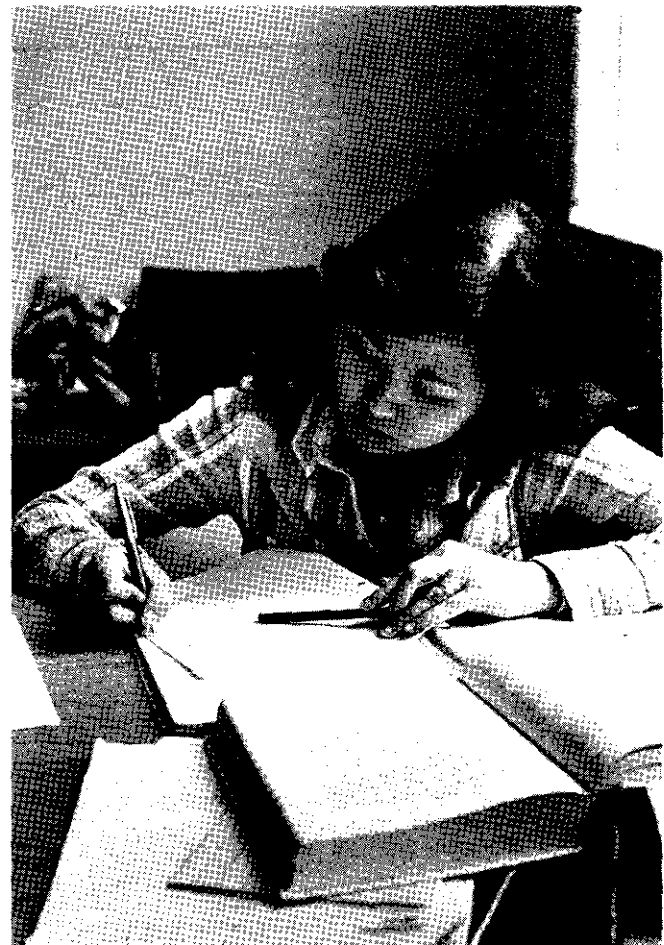
The graduate program leading to the Master of Business Administration degree is dedicated to educating graduate students for professional careers in business administration. The Master of Science in Taxation degree is offered to those exhibiting an advanced appreciation of the study of taxation. These 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

Our goal is to be the leading business school among North America's research universities with an urban mission. Our teaching mission is to provide comprehensive, high impact business education that addresses the needs of the southeastern Michigan community. Our research mission is to publish high quality scholarship and to conduct cutting edge analyses of the issues confronting organizations. Our service mission is to contribute our expertise to professional organizations, the community, and the University.

Activities to accomplish this mission will include: 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; making programs accessible to students through academic preparedness initiatives; infusing our research and teaching with real world applicability; publishing research in leading academic and professional journals; offering high quality executive development programs that are relevant to business needs; fostering a spirit of partnership with students, alumni, employers, and other key stakeholders; developing international alliances that add value to our research and teaching.



Degree Programs

BACHELOR OF SCIENCE in Business Administration with majors in

Accounting
Finance and Business Economics
Management and Organization Sciences
Information Systems Management
Marketing

BACHELOR OF ARTS in Business Administration with majors in

all of the Bachelor of Science concentrations cited above

MINOR IN BUSINESS ADMINISTRATION

**** MASTER OF BUSINESS ADMINISTRATION**

**** MASTER OF SCIENCE IN TAXATION**

DIRECTORY OF THE SCHOOL

Dean	226 Prentis Building; 577-4501
Associate Dean of Academic Affairs 226 Prentis Building; 577-4503	
Associate Dean for Research and Director of the Bureau of Business Research	100 Rands House; 577-4842
Assistant Dean of Student Affairs 103 Prentis Building; 577-4510	
Assistant Dean of Administrative Affairs 105M Prentis Building; 577-4502	
Director, Computing and Information Services 6 Prentis Building; 577-4546	
Assistant Dean of Professional Development 240 Rands House; 577-4448	
Director, Center for International Business Education and Research (CIBER)	100 Rands House; 577-4842
Director, Office of Student Services	103 Prentis Building; 577-4510
Director, Alumni Affairs	105M Prentis Building; 577-4502
Student Senate Office	209B Prentis Building; 577-4783
Department of Accounting	200 Rands House; 577-4530
Department of Finance and Business Economics 328 Prentis Building; 577-4520	
Department of Management and Organization Sciences 328 Prentis Building; 577-4515	
Department of Marketing	300 Prentis Building; 577-4525
Undergraduate Program Information	577-4505
Graduate Program Information	577-4510
Marketing Specialist	577-4500
Director of Development	226 Prentis Building; 577-4500

** For specific requirements, consult the Wayne State University Graduate Bulletin.

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 honor 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 honor 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 honor point average of less than 2.5 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 h.p.a.) must be earned in course requirements indicated by an asterisk (*).

Accounting

- *ACC 3010 (3 cr.) .. Elementary Financial Accounting Theory
Prereq: MAT 1500; ECO 1010,1020; coreq: ACC 2630.
- *ACC 3020 (3 cr.) .. Elementary Managerial Accounting Theory
Prereq: ACC 3010 and ALL ACC 3010 prerequisites.

Business Computing

*ISM 2630 (2 cr.) ... (CL) Introduction to Business Computing
Prereq: none.

or

Pass the Computer Literacy Competency Examination.

Business Law

ACC 3510 (3 cr.) ... Business Law I
Prereq: sophomore standing.

Economics

*ECO 2010 (3 cr.) ... (SS) Principles of Microeconomics

and

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

English

*ENG 1020 (4 cr.) ... (BC) Introductory College Writing
Prereq: placement through English Qualifying Examination
or ENG 1010.

and

*ENG 3010 (3 cr.) ... (IC) Intermediate Writing
Prereq: ENG 1020 or equiv.

and

Pass the English Proficiency Examination in Composition. NOTE: Students must
successfully pass this examination prior to the completion
of 60 semester credits.

Mathematics

*MAT 1500 (3 cr.) ... Finite Mathematics for the Social & Management Sciences
Prereq: Qualifying Examination.

or

*MAT 1800 (4 cr.) ... Elementary Functions
Prereq: Qualifying Examination.
Note: Required as a prerequisite for most advanced computer
science courses.

and

Pass the Mathematics Proficiency Examination.

Philosophy

PHI 1050 (3 cr.) ... (CT) Critical Thinking
Prereq: none.

or

Pass the Critical Thinking Competency Examination.

Psychology

PSY 1010 (4 cr.) ... (LS) Introductory Psychology
Note: PSY 1010 will satisfy the requirement for a Natural Science
lab and the Life Science Group Requirement.

or

PSY 1020 (3 cr.) ... (LS) Elements of Psychology
Prereq: none.

Speech

SPB 1010 (2 cr.) ... (OC) Oral Communication: Basic Speech
Prereq: none.

or

Pass the Oral Communication Competency Examination.

Statistics

*FBE 3300 (3 cr.) ... Quantitative Methods I: Probability & Statistical Inference
(recommended) Prereq: MAT 1500 or higher or equiv.

General Education Requirements

Students must also satisfy University General Education 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 128 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
26). 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; and ECO 2010 or
2020 also satisfies the Basic Social Science group requirement.
Pre-business and Business Administration students should consult
the University Advising Office 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 or MAT 1800 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.

FBE 4230	Financial Markets, Institutions and Securities
FBE 4290	Business Finance
FBE 4400	Quantitative Methods II: Statistical Methods
	Must be satisfactorily completed in the first sixteen credits after admission to the School of Business Administration.
ISM 4630	Business Information Systems
MGT 4510	Organizational Structure
MGT 4520	Managing Organizational Behavior
MGT 4600	Production Operations Management
MGT 4890	Social and Political Influences on Business
MGT 6890	Business Policy.
	To be taken as one of the last five courses toward bachelor's degree and after completion of all other core courses.
MKT 4300	Marketing Management
MKT 4330	(WI) Business Communication
	Prereq: successful completion of English Proficiency Examination in Composition and all other pre-business administration requirements.
MKT 4350	Marketing Analysis and Decision Making

— Major Requirements

Majors and specializations are offered through the School's four academic departments: Accounting, Finance and Business Economics, Management and Organization Sciences, and Marketing. The accounting major requires nine courses (a minimum of twenty-six credits); majors in Finance, Management, Information Systems Management, 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 (pages 57–65) for specific majors and specializations. After selecting a major, students should consult the Office of Student Services of the School of Business 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*. Elective credits for students admitted to the School of Business Administration are taken as indicated by the School of Business Administration; the number of elective credits that each student is required to take may

vary depending on the major or specialization selected and the course options taken by the student to satisfy various requirements. 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.

NON-BUSINESS ELECTIVES: In order to graduate, all business administration students, regardless of major, must satisfactorily complete a total of fifty-two semester credits of non-business course work, including any pre-business requirements that are considered non-business. If the requirement of fifty-two 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 Science, the College of Engineering, or the College of Fine, Performing and Communication Arts, with the following exceptions:

1. Computer Science courses below the 300 level, except CSC 1000 and CSC 1010, 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.

FREE ELECTIVES: If upon the completion of the pre-business, core, major and non-business requirements, a student has not completed 128 credits (the minimum to graduate), he/she will be required to complete certain free electives. Free electives may be selected from courses offered in the School of Business Administration, the College of Liberal Arts, the College of Science, the College of Engineering, or the College of Fine, Performing and Communication Arts, subject to the same conditions and exceptions noted for non-business electives (see above).

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 128 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 h.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 honor point average of 2.5.

PREREQUISITE COURSES

(SS) Principles of Microeconomics	ECO 2010
(SS) Principles of Macroeconomics	ECO 2020
Finite Mathematics for the Social and Management Sciences	MAT 1500
or	
Elementary Functions	MAT 1800

REQUIRED COURSES

Elementary Financial Accounting Theory	ACC 3010
Business Finance	FBE 4290
Organizational Structure	MGT 4510
or	
Managing Organizational Behavior	MGT 4520
Marketing Management	MKT 4300
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, University 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 Center, 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, 103 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, 103 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 128 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 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. 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 honor 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, 103 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 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 101 or 108. 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 30, 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 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, 3 West, Helen Newberry Joy Student Services Center, or from the Office of Student Services of the School of Business Administration, 103 Prentis Building. Information about registering for proficiency examinations may be obtained from the Testing Office of University Counseling Services, 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 honor 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 37.

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, 103 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 Ombudsman (see page 57) 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 honor point average or less than 2.0 honor 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 honor point average within the next twelve credits completed, or a 2.0 major honor 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 Vice President for Academic Affairs to review that decision on the record.

Repeating Courses

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, honor points and credits for an earlier attempt will be eliminated from the student's honor point average computation.
2. The grade, honor points and credits of only the latest repetition will be included in the student's honor point average computation.
3. The original grade in the course repeated under this rule will be indicated by an 'R'. Thus, the indicator 'R' will appear opposite all attempts in a course except the last.

After registering to repeat a course, a Repeat Form must be filed in the Records Office, 1 West, Helen Newberry Joy Student Services Center.

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

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.

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 41 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 Student Services Office, 103 Prentis.

Ambassador Scholarship: Established by five graduates who wish to recognize the ambassador spirit among students, this annual award is presented to a student who consistently promotes the images and ideals of the School to both the University and the business community.

Gerald Alvin / Donald Gorton Honorary Student Scholarship: Provided by the Department of Accounting to recognize outstanding students pursuing an accounting major.

Richard H. Austin Excellence in Accounting Scholarship: Award of variable amount established to recognize potential abilities and academic achievements of minority accounting students. Fall semester deadline; contact Department of Accounting.

Stanton P. Bockneck Memorial Scholarship: Awarded for the first time in 1988, these awards (\$500 and \$1000) are designated for students demonstrating high academic achievement in accounting. Fall semester deadline; contact Department of Accounting.

Lawrence and Charlynnne Braun Endowed Scholarship: Established to recognize students who have displayed excellence in leadership, character, and scholastic achievement.

Business Marketing Association Scholarship — Detroit Chapter: Annually award of \$1000 open to undergraduate marketing majors with high academic achievement, majoring in advertising/public relations. Fall semester deadline; contact Department of Marketing.

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.

Dana Corporation Foundation Minority Scholarship: Established in 1989, this award is designated for minority business administration students demonstrating high academic achievement.

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.

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. Fall semester deadline; contact Department of Accounting.

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. Fall semester deadline; contact the School Student Services Office, 103 Prentis.

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. Fall semester deadline; contact Department of Marketing.

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.

George R. Husband Scholarship: Awarded to accounting majors demonstrating high academic achievement, maintaining a minimum 3.0 h.p.a. Fall semester deadline; contact Department of Accounting.

Austin and Harriet Kanter Endowed Scholarship: Designated to recognize a student majoring in marketing who displays outstanding scholarship, leadership, and service to the School of Business Administration.

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 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 of \$400 is designated for accounting majors demonstrating high academic achievement. Fall semester deadline; contact Department of Accounting.

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.

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 h.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 M.B.A. alumnus Bruce E. Mullican. Award of variable amount, designated for students with demonstrated interest and involvement in small business management. Fall semester deadline; contact the School Student Services Office, 103 Prentis.

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.

Pre-Business Scholarship: Established through the Office of Student Services, this award of \$500 recognizes a high achiever in the pre-business curriculum who shows strong potential for success in the School of Business Administration. Contact the School Student Services Office, 103 Prentis.

Aubrey C. Roberts Memorial Scholarship: Award of \$500 – \$100 open to accounting majors demonstrating high overall scholarship and outstanding academic achievement in accounting subjects. Contact Department of Accounting.

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. Fall semester deadline; contact Department of Marketing.

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

Alpha Kappa Psi Scholarship Award: Awarded annually to the graduating senior in business administration who has attained the highest scholastic average.

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 of \$500 – \$1000 made in recognition of outstanding student service to the School of Business Administration. For information, contact the School Student Services Office, 103 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.

Outstanding Business Communication Awards: Awarded by the business communication faculty for the most effective business reports, selected from a field of more than 150 reports.

The Wall Street Journal Student Achievement Award: Awarded annually to the business administration student in the Spring graduating class with the highest honor point average.

Women in Business Scholarship: Award of \$500 made annually to a member of Women in Business who has displayed service, dedication, and scholarship. Contact School Office of Student Services, 103 Prentis.

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.

Bureau of Business Research

The Bureau of Business Research supports faculty research, collects and disseminates business and economic information, facilitates the procurement of grants and sponsored research, and provides professional services to the community. The Director of the Bureau can be reached at 577-4842.

Center for International Business Education and Research

The Center for International Business Education and Research (CIBER) is the focal point of the School's instructional and research programs in the rapidly-expanding international business area. CIBER's director can be reached at 577-4842.

Communications Laboratory

The Richard A. 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.

Computer 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 six 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

The Professional Development Division (PDD) is the non-credit instructional component of the School of Business Administration. The PDD's primary mission is to meet the education and training needs of the greater business community by offering a variety of seminars, workshops, and other special programs.

The PDD also regularly conducts a series of programs focusing on the starting and operating of a small business. Additionally, a wide range of instructional programs of a professional nature are made available to the community.

Professional Development Division programs focus on problem solving, organizational productivity, informational updating, and skill development. Programs are tailored to specific audiences, with instructors chosen from the academic, consulting, and business communities who have experience and expertise in the field. For further information, call 313-577-4448.

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; Lviv 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 M.B.A. 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 American Production and Inventory Control Society (APICS) is a professional association whose goal is the professional education and development of its members in the field of production and operations in a manufacturing or service organization. APICS members attend a variety of seminars, workshops, tours, and conferences in which practitioners in the field sponsor and counsel students.

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 and to full-time faculty of the Accounting Department. The fraternity objectives include: the promotion of the study and practice of accounting; the provision of opportunities for self-development and association among members and practicing accountants; and the encouragement of a sense of ethical, social and public responsibilities.

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.

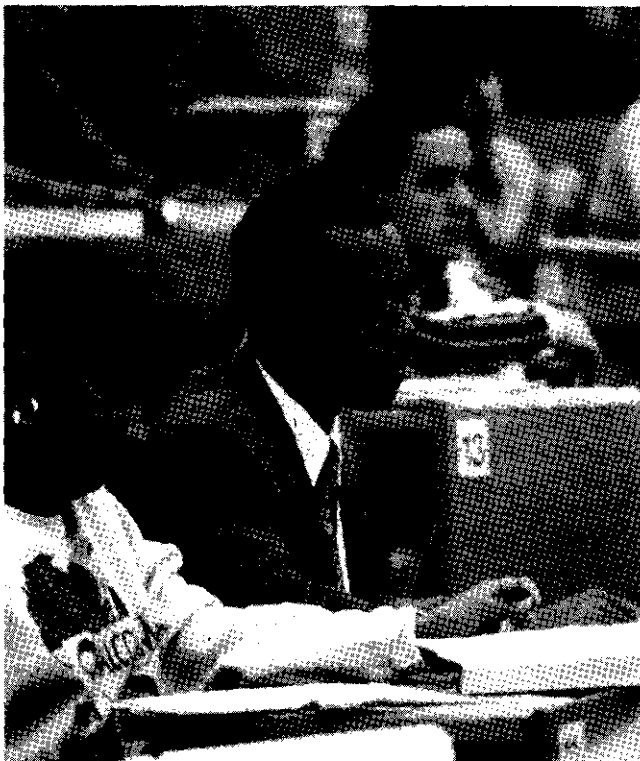
The Information Systems Management Association (ISMA) is a professional organization which strives to educate its members further in the practical application of computer technology and interact with leaders in the ISM field through various activities, including speakers and corporate tours. The organization welcomes members from all majors.

The MBA Association was established in 1987. This organization is designed to recognize outstanding M.B.A. students and to facilitate the academic and professional development of the graduate business student population.

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).



ACCOUNTING

Office: 200 Rands House; 577-4530

Interim Chairperson: Albert D. Spalding, Jr.

Professors

Charles R. Allberry (Emeritus), Gerald Alvin (Emeritus), B. Anthony Billings, Raymond J. Murphy (Emeritus), Alan Reinstein, William H. Volz

Associate Professors

Donald E. Gonon (Emeritus), Albert D. Spalding, Jr., Myles S. Stem, James F. Wallis (Emeritus)

Assistant Professors

Deborah Jones, Klara Nelson, Adel Novin (Visiting), Arik Ragowsky, Jack D. Schroeder

Senior Lecturer

Susan D. Garr

Lecturers

Alexander J. DePetro, Melvin Houston, Audrey Taylor, Antonie Y. Walsh, Russell Whitfield

Degree Programs

BACHELOR OF ARTS in Business Administration
with a major in accounting

BACHELOR OF SCIENCE in Business Administration
with a major in accounting

BACHELOR OF ARTS in Business Administration
with a major in information systems management

BACHELOR OF SCIENCE in Business Administration
with a major in information systems 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 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 128 credits including satisfaction of the degree requirements stated on pages 64-65, 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 pages 15-45 and 63-68 respectively.

— With a Major in Accounting

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 6996, to assess students' knowledge of the discipline. Students who concentrate in accounting must complete the following courses:

ACC 5100	Advanced Accounting Theory I
ACC 5110	Advanced Accounting Theory II
ACC 5130	Accounting Systems Design and Control
ACC 5140	Auditing
ACC 5160	Cost Accounting
ACC 5170	Taxes on Income
ACC 5180	Governmental and Not-for-Profit Accounting
ACC 5190	Business Law II
ACC 6960	Advanced Accounting Theory III

— With a Major in Information Systems Management

Information Systems Management (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.

ISM 5820	Systems Analysis and Design
ISM 5992	Database Systems
ISM 5993	Data Communications and Networks
ISM 5994	Software Tools for Business Applications
ISM 6997	Information Systems Policy and Management
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.

Plus ONE of the following:

CSC 1050	(CL) Introduction to C and UNIX. (Since CSC 1050 is a two-credit course, students may need to elect an additional credit.)
CSC 1120	(CL) Introduction to FORTRAN
CSC 1140	(CL) Introduction to COBOL
CSC 2000	Introduction to C++
CSC 2110	(CL) Introduction to Data Structures and Abstracts
ACC 4900	Directed Study

UNDERGRADUATE COURSES

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487. 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.

ACCOUNTING (ACC)

3010. Elementary Financial Accounting Theory. Cr. 3

Prereq: bachelor's degree; or sophomore standing, ECO 2010 and ECO 2020, MAT 1500; coreq: ISM 2630. Introduction to financial accounting principles; preparation and interpretation of balance sheets and income statements. (T)

3020. Elementary Managerial Accounting Theory. Cr. 3

Prereq: bachelor's degree and ACC 3010; or ACC 3010, 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. (FBE 4500)(MKT 4500). Cr. 0

Offered for S and U grades only. No credit toward degree. Open only to students admitted to School of Business Administration; 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. (Y)

4990. Directed Study in Accounting. Cr. 1–3(Max. 6)

Prereq: 2.75 cumulative h.p.a. to be eligible; written approval on proposal form prior to registration; consent of chairperson of student's major department. Open only to students admitted to School of

Business Administration; 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. Advanced Accounting Theory I. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 3020. Conceptual foundations of accounting principles. Analysis of various accounting theories concerning asset valuation. (Y)

5110. Advanced Accounting Theory II. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 5100. Interpretation of equities in corporation assets and measurement of income. (Y)

5130. Accounting Systems Design and Control. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 5110, ISM 4630, and ISM 2630 or equiv. Student computer account required. Principles of design, control, and evaluation of computer-based systems for processing accounting information. Techniques for data base design and information systems auditing. (Y)

5140. Auditing. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 5110, FBE 4400. Principles and procedures of auditing; professional standards and responsibilities of the certified public accountant. (Y)

5160. Cost Accounting. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 3020. Theory and practice of cost accumulation and analysis to facilitate managerial decisions and cost control systems. (Y)

5170. Taxes on Income. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 3020 or 6010. Theory of taxes on income and practical application of related laws and regulations. (Y)

5180. Governmental and Not-for-Profit Accounting. Cr. 2

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 3020 or 6010. Accounting principles and procedures applied to fund accounting of government units and not-for-profit organizations. (Y)

5190. Business Law II. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 3510 and sophomore standing. Law of agency, corporations, partnerships and negotiable instruments. Professional liability. (Y)

6996. Advanced Accounting Theory III. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 5110. Consideration of advanced concepts pertaining to consolidated statements, analysis of funds flow and liquidity, and supplemental financial disclosures of the effects of changing prices. (Y)

INFORMATION SYSTEMS MANAGEMENT (ISM)

2630. (CL) Introduction to Business Computing. Cr. 2

No credit after former ACC 2630. Material fee as indicated in *Schedule of Classes*. Introduction to management information systems, programming, data base management, spread sheets, word processing, telecommunications, and graphics. (T)

4630. Business Information Systems. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 3010, ACC 3020, ISM 2630 or equiv., MAT 1500; coreq: MGT 4510. Student computer account required. Offered for undergraduate credit only. No credit after former ACC 4630. Material fee as indicated in *Schedule of Classes*. Concepts and techniques of design, use and control of computer-based systems for business data processing, office automation, information reporting, and decision-making. (T)

5820. Systems Analysis and Design. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ISM 4630. No credit after former ACC 5820. 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. (Y)

5992. Data Base Systems. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ISM 4630. No credit after former ACC 5920. Material fee as indicated in *Schedule of Classes*. Effective use of data base management systems for processing management information; design and administration of systems. (Y)

5993. Data Communications and Networks. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ISM 5820. No credit after former ACC 5930. Data communication concepts and terminology, communication system design approaches, data communications standards, data communications software and hardware, network architecture, distributed management information systems. (Y)

5994. Software Tools for Business Applications. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ISM 5820. No credit after former ACC 5940. 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)

6997. Information Systems Policy and Management. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ISM 5920 or 5930. Must be elected in final sixteen credits of ISM curriculum. No credit after former ACC 6970. 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)

FINANCE and BUSINESS ECONOMICS

Office: 328 Prentis Building; 577-4520

Interim Chairperson: Toni M. Somers

Professors

James L. Hamilton, Milton H. Spencer (Emeritus)

Associate Professors

Richard A. Ajayi, Mark E. Bayless, Robert C. Bushnell, Timothy W. Butler, Walter J. Chamberlin (Emeritus), Barbara Price, Kelly R. Price, Toni M. Somers, David I. Verway, Frank L. Voorheis

Assistant Professors

Kenneth A. Borokhovich (Visiting), Mbodja Mougoue, Margaret A. Smoller, John D. Wagster

Senior Lecturers

Sadhana Alangar, Robert C. Wolf

Lecturer

Jack R. Kuzminski

Degree Programs

BACHELOR OF ARTS in Business Administration
with a major in finance and business economics

BACHELOR OF SCIENCE in Business Administration
with a major in finance and business economics

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 128 credits including satisfaction of the degree requirements stated on pages 64-65, 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 pages 15-45 and 63-68 respectively.

SPECIALIZATIONS

Bachelor's degrees in finance and business economics 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. FBE 6996 is a capstone course that assesses students' knowledge of corporation finance. Students should complete core courses FBE 4290 and FBE 4400 before beginning the following major requirements:

ACC 5100	Advanced Accounting Theory I
FBE 5210	Security Analysis and Valuation
FBE 5270	Advanced Business Finance
FBE 6996	Corporate Financial Strategies

Plus two of the following:

FBE 5220	Portfolio Management
FBE 5320	Principles of International Business Finance
FBE 5330	Bank Management
FBE 5350	Real Estate Finance
FBE 5370	Risk Management
FBE 6997	Derivative Securities and Portfolio Management
ACC 5110	Advanced Accounting Theory II

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. FBE 6997 is a capstone course that assesses students' knowledge of financial markets and investments. Students should complete core courses FBE 4290 and FBE 4400 before beginning the following major requirements:

ACC 5100	Advanced Accounting Theory I
FBE 5210	Security Analysis and Valuation
FBE 5220	Portfolio Management
FBE 6997	Derivative Securities and Portfolio Management

Plus two of the following:

FBE 5270	Advanced Business Finance
FBE 5320	Principles of International Business Finance
FBE 5330	Bank Management
FBE 5350	Real Estate Finance
FBE 5370	Risk Management
ACC 5110	Advanced Accounting Theory II

FINANCE and BUSINESS ECONOMICS COURSES (FBE)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487. 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. (I)

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)

4230. Financial Markets, Institutions and Securities. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ECO 2010; ACC 3020 recommended. 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. (T)

4290. Business Finance. Cr. 3

Prereq: ECO 2010, ACC 3020 and FBE 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. (T)

4400. Quantitative Methods II: Statistical Methods. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 3300 or ECO 4100 or equiv. Must be satisfactorily completed in first sixteen credits after admission to the School of Business Administration. 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. (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. (T)

4990. Directed Study in Finance and Business Economics. Cr. 1–3(Max. 6)

Prereq: 2.75 cumulative honor point average 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. (T)

5210. Security Analysis and Valuation. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 4290 or former 5290, 4400 or former 5400; coreq: ACC 5100. 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. (F,W)

5220. Portfolio Management. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 5210 or former 6210. Principles of portfolio construction and administration applicable to various institutions including banks, insurance companies, mutual funds, and pension trusts. (F,W)

5270. Advanced Business Finance. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 5210 or former 6210. Risk analysis, working capital management, capital budgeting and valuation theories. Role of financial management in maximizing value of the firm. (T)

5320. Principles of International Business Finance. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 4290. 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. (Y)

5330. Bank Management. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 4290. 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. (I)

5350. Real Estate Finance. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 4290. Analysis of methods and problems of transferring real property. Examination and analysis of financing methods for real estate transactions and real estate investment strategies. (I)

5370. Risk Management. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 4290. The underlying principles of insurance as they apply to the entire field of insurance. Intended for the student who wishes to get a general knowledge of insurance as a management tool in controlling risks. (I)

5890. Internship in Finance and Business Economics. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 4290, prior consent of instructor. Offered for S and U grades only. Minimum ten-page paper

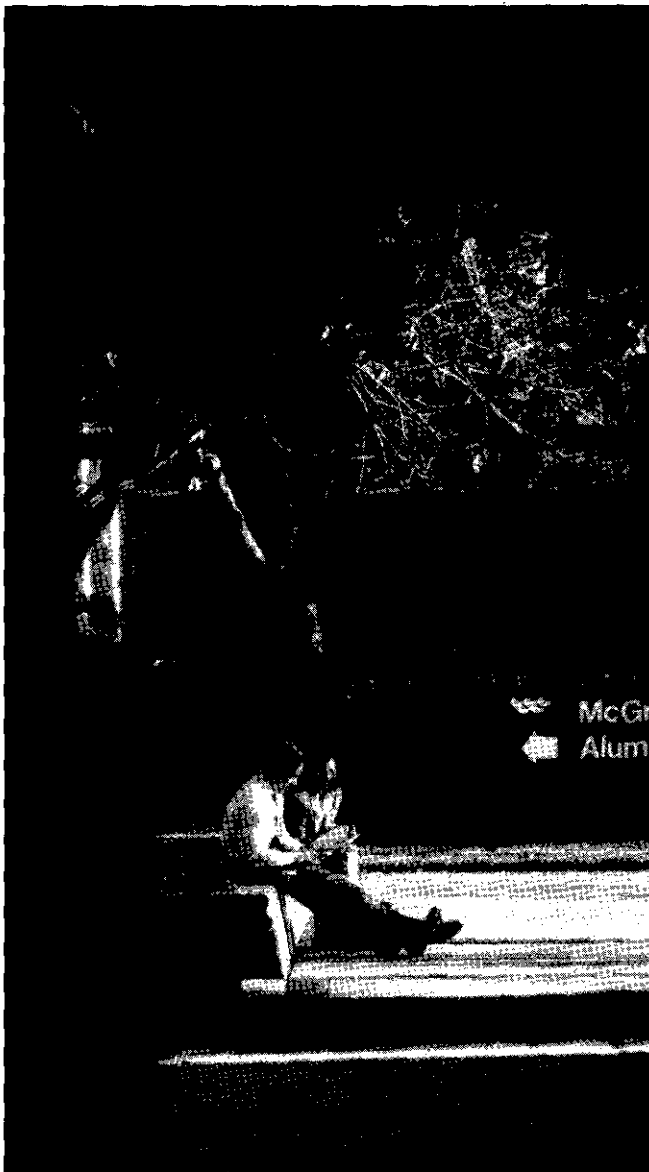
(excluding exhibits) discussing a problem or opportunity facing the sponsor organization, application of financial concepts, and outcomes relative to the problem or opportunity; summary presentation to department chairperson. (T)

6996. Corporate Financial Strategies. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 5270 or former 6270. 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. (Y)

6997. Derivative Securities and Portfolio Management. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: FBE 5220 or former 6220. 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. (Y)



MANAGEMENT and ORGANIZATION SCIENCES

Office: 328 Prentiss Building; 577-4515

Interim Chairperson: John G. Maurer

Professors

Bruce E. DeSpelder (Emeritus), Victor C. Doherty, James E. Martin, John G. Maurer, Richard O. Osborn

Associate Professors

Karen A. Bantel, Yitzhak Fried, Edwin F. Harris (Emeritus), K.S. Krishnan, Thomas J. Naughton, Harvey Nussbaum, Donald H. Palmer (Emeritus), Irving Paster (Emeritus), Fred P. Unruh (Emeritus), Alice Schnoor (Emeritus), Harish L. Verma

Assistant Professors

Catherine Kirchmeyer, Peter E. Mudrack, Sabine Reddy

Senior Lecturer

Charles A. Soberman

Lecturer

James A. Robinson

Degree Programs

*BACHELOR OF ARTS in Business Administration
with a major in management and organization sciences*

*BACHELOR OF SCIENCE in Business Administration
with a major in management and organization sciences*

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 128 credits including satisfaction of the degree requirements stated on pages 64-65, 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 pages 15-45 and 63-68, respectively.

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 market place.

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
MGT 5530	Advanced Organizational Behavior
MGT 6995	Seminar in Management

SPECIALIZATIONS

Bachelor's degrees in management are offered in the following four specializations: General Management, Small Business/Entrepreneurship, Operations 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
MGT 5650	The Entrepreneur and Venture Creation
MGT 5660	Managing Small & Emerging Enterprises
MGT 5670	Entrepreneurship/Small Business Field Studies
MGT 5680	Operations Strategy in a Global Environment
MGT 5700	Human Resource Management
MGT 5740	Collective Bargaining
MGT 5770	Advanced Human Resource Management
MGT 5780	Designing Compensation & Reward Systems
MGT 5996	Contemporary Topics in Operations Management

Small Business/Entrepreneurship

This specialization provides the knowledge and skills needed to create a successful new business venture (entrepreneurship) and to manage effectively in an established small business. The specialization is applications-oriented, with an emphasis on problem solving and decision making. It is designed for students who plan to become entrepreneurs or who plan to work in a smaller organization. Students complete the following:

MGT 5650	The Entrepreneur and Venture Creation
MGT 5660	Managing Small and Emerging Enterprises
MGT 5670	Entrepreneurship/Small Business Field Studies

Related courses from other business disciplines that are recommended for students in this specialization include:

ACC 5190	Business Law II
FBE 5370	Risk Management
MKT 5450	Consumer Behavior

Operations Management

The operations management specialization prepares the student for a career as a production or operations manager. It provides knowledge and skills (both qualitative and quantitative) to solve management problems relating to work-flow planning, scheduling, quality control, inventory control, and productivity. Students complete the following:

MGT 5680	Operations Strategy in a Global Environment
MGT 5996	Advanced Topics in Operations Management

Plus one of the following:

ACC 5160	Cost Accounting
MKT 5600	Transportation and Distribution Management
MKT 5620	Business Logistics Management

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
MGT 5740	Collective Bargaining
MGT 5770	Advanced Human Resource Management
MGT 5780	Designing Compensation and Reward Systems

MANAGEMENT COURSES (MGT)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487. 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)(FBE 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. (T)

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: innovation 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: motivation, communication, leadership, organizational development, group functions and processes. (T)

4600. Production/Operations Management. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ISM 2630 or equiv., FBE 3300 or ECO 4100, and MGT 4510. No graduate credit. 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)

4890. Social and Political Influences on Business. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 4510 or consent of instructor. 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 h.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

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 4510. Analysis of strategic pressures on the organization. Application of advanced concepts of structured organizational change to contemporary organizational design problems. (Y)

5530. Advanced Organizational Behavior. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 4520. 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. (Y)

5540. Managing Diversity. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 4520 or senior standing. Managing an increasing 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

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 3010, FBE 4290, MGT 4510, MKT 4350. 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

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: ACC 3010, FBE 4290, MGT 4510, MKT 4300. 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. (Y)

5670. Entrepreneurship/Small Business Field Studies. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 5650, 5660, senior standing; or senior standing, consent of instructor. Students assigned to act as consultants to entrepreneurs or to small business owner/managers in Detroit metropolitan area. Class meetings focus on the consultative and problem-solving processes. (I)

5680. Operations Strategy in a Global Environment. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 4600 or consent of instructor. Analysis of problems in production/operations management. Application of quantitative models to the solution of these problems. Topics covered are decision analysis, aggregate systems, inventory control, material requirements planning and PERT and CPM; emphasis on competing in a global marketplace, quality management. (Y)

5700. Human Resource Management. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 4510 and 4520 or consent of instructor. Theory, 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. (F,W)

5740. Collective Bargaining. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 4510 and 4520, or consent of instructor. Development of union-management relationships, including legal environment of labor relations; philosophy and practice of collective bargaining. A bargaining simulation is normally utilized. (Y)

5770. Advanced Human Resource Management. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 5700 or consent of instructor. 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. (Y)

5780. Designing Compensation and Reward Systems. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: nine credits in personnel and industrial relations. Investigation of principles of design and implementation of employee compensation and reward systems; two-tier wage systems, merit pay, pension benefits. (Y)

5996. Advanced Topics in Operations Management. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 4600, FBE 4400 or consent of instructor. Analysis of problems in production operations management and their solutions. Topics include quality control, statistical control models, aggregate scheduling and facility layout planning within context of continuous improvement philosophies. (Y)

6890. Business Policy. Cr. 3

Open only to students admitted to School of Business Administration; others by consent of adviser. To be taken after completion of core curriculum and as one of the last five courses toward bachelor's degree. 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

Open only to students admitted to School of Business Administration; others by consent of adviser. Prereq: MGT 5510, 5530, six additional credits in management courses. Advanced topics in organizational behavior, organization theory, human resource management, operations management from strategic and global perspective. (Y)

MARKETING

Office: 300 Prentiss Building; 577-4525

Interim Chairperson: George C. Jackson

Professors

Richard F. Beltramini, Hugh M. Cannon (Adcraft Club/Simons—Michelson Professor in Advertising), J. Patrick Kelly (Kmart Chair in Marketing), 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. Stolman, David L. Williams

Assistant Professor

John C. Taylor

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'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 128 credits including satisfaction of the degree requirements stated on pages 64-65, 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 pages 15-45 and 63-68 respectively.

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
MKT 5410	Marketing Research and Analysis
MKT 5450	Consumer Behavior

Two electives chosen from the following:

MKT 5500	Advertising Copy
MKT 5510	Advertising Media Planning
MKT 5520	Public Relations
MKT 5850	Promotional Strategy
MKT 5470	Business Marketing

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
MKT 5410	Market Research and Analysis
MKT 5450	Consumer Behavior

Two electives from a Departmental list including:

MKT 5700	Retail Management (highly recommended)
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Business Logistics

This specialization 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:

MKT 5600	Transportation and Distribution Management
MKT 5620	Business Logistics Management
MKT 5630	Advanced Business Logistics Management

Two elective courses from a Departmental list.

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
MKT 5450	Consumer Behavior

Three elective courses from a Departmental list

2190. Rhetoric in Western Thought. Cr. 3

Prereq: sophomore standing or above, SPB 1010 or equiv. Major trends in rhetorical theory from classical times to the present; analysis and criticism of theoretical concepts in speechmaking and persuasion pedagogy. (Y)

2200. Interpersonal Communication. Cr. 3

Introduction to theory and research on interpersonal communication; analysis of everyday communication situations; practice in interpersonal communication. (T)

2240. Forensics Practicum. Cr. 1-2(Max. 6)

Prereq: SPC 2110 or consent of instructor. Two credits only with consent of instructor. Training and participation in debate and contest speaking. (T)

2500. Oral Interpretation of Literature. Cr. 3

Oral performance approach to literature, fusing voice, body and meaning in the reading aloud of poetry, prose, drama; interaction of reader, listener, and literature. (T)

3100. Business and Professional Presentations. Cr. 3

Prereq: SPB 1010 or equiv. Review and practice of various oral communication forms used in modern organizations. Topics include persuasive speaking, informative speaking, speech writing, proposal presentations, multi-media presentations and parliamentary procedures. (Y)

3170. (CL) Fundamentals of Public Relations. Cr. 3

Prereq: SPB 1010 or SPC 2100 or equiv. No undergraduate credit after SPC 5160. Historical background of the profession of public relations; communication variables in public relations; emphasis on presentational techniques, publicity preparation and development of special events. (F)

3200. Nonverbal Communication. Cr. 3

Channels and functions of nonverbal communication; contexts include: gender, culture, adult-infant interaction, therapy. Methods of study. (B)

3210. Theories of Communication. Cr. 4

Exploration of the role of theory in describing, explaining and predicting human communication behavior in face-to-face and mediated contexts. (Y)

3250. Introduction to Organizational Communication. Cr. 3

Introduction to major theories and principles used to guide the effective practice of communication within organizations. (F)

4010. Special Topics. Cr. 3 (Max.9)

Selected topics in speech communication to be announced in Schedule of Classes. (B)

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)

4170. Public Relations Writing. Cr. 3

Prereq: SPC 3170; coreq: 5930 for public relations majors. Writing for public relations purposes: backgrounders, factsheets, press releases; brochures and newsletters. (Y)

5010. Special Topics. Cr. 3 (Max. 9).

No more than six credits may be elected in special topics courses in any graduate degree program. Selected topics in speech communication to be announced in the Schedule of Classes. (B)

5040. The Rhetoric of Racism. (S E 5370)(AFS 5040). Cr. 3

Issues and topics related to the study of communication behaviors and patterns in the black community. Topics focus on specific cultural, rhetorical and sociological aspects of life in African American communities. (Y)

5050. Advanced Voice and Articulation. Cr. 3

Prereq: SPC 2040 or equiv. Intensive individual vocal drill on the development of vocal quality, strengthening the breathing muscles, development of pitch range and inflection, projection, rate, and articulation as used in mass communication, theatre, public address,

and oral interpretation. Second half of course devoted to voice qualities and dialects for performance. Emphasis on individual attention. (B)

5100. Speech Writing. Cr. 3

Prereq: SPC 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: SPC 2110 or graduate standing. Used of argument in a variety of fields and contexts including: public and interpersonal contexts; law, religion and politics. Different methods of studying argument will be examined. (B)

5120. Great Speakers. Cr. 3

Prereq: SPC 2100 or consent of instructor. Analysis of speech texts and history with emphasis on various dimensions of rhetorical communication. Issues related to such topics as war/peace, church/state, political reform/civil rights, law/morality and wealth/poverty. Specific focus determined each term. (B)

5160. Public Relations Campaigns. Cr. 3

Prereq: SPC 3170 and 4170 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)

5170. 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 seniors. (B)

5180. 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)

5200. Group Communication and Human Interaction. Cr. 3

No Ph.D. credit in speech communication. Theory, research, and practice in small group and interpersonal communication. Decision-making strategies; analysis of personal communication strengths. (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)

5300. Women's Rights/Suffrage Rhetoric. Cr. 3

Prereq: SPC 2100 or 2160 or 2190 or graduate standing or consent of instructor. Analysis of speeches and writings of eighteenth through early twentieth century U.S. women's rights and woman suffrage activists. (B)

5550. Performance Workshop. Cr. 1-3(Max. 6)

Prereq: SPC 2500 or equiv. Workshop in conjunction with oral interpretation activities: festivals, contests, public performances such as Interpreters Theatre productions and Readers' Bureau programs. (B)

5993. (WI) Writing Intensive Course in Speech Communication. Cr. 0

Prereq: junior standing recommended, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: SPC 3210 for speech communication majors, or 4170 for public relations majors. 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)

5996. Communication Ethics. Cr. 3

Majors must elect in last 12 credits of study prior to graduation. Issues of responsible communication in a variety of contexts including mass, organizational, and interpersonal communication. Capstone course for undergraduate majors in speech communication and general communication. (B)

6010. Special Topics. Cr. 3 (Max. 9).

No more than six credits may be elected in special topics courses in any graduate degree program. Selected topics in speech communication to be announced in the Schedule of Classes. (B)

6040. Cultures and Rhetorics. Cr. 3

Prereq: SPC 2100, 2160 or graduate standing. 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: SPC 2110. 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. Theories 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)

6190. Internship in Organizational Communication and Public Relations. Cr. 1-4(Max. 6)

Prereq: written consent of instructor. Open only to majors. On-the-job observations and work experience in business, service, social, governmental, and industrial organizations. Emphasis on public relations and organizational communication. (T)

6200. Theories of Small Group Processes. Cr. 3

Prereq: SPB 1010; SPC 5200. Theory and research on communication in the small, task-oriented group. (B)

6250. Organizational Communication. Cr. 3

Prereq: SPC 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)

6350. Communication, Culture, and Conflict. (D R 6350). Cr. 3

Prereq: SPC 6250 or graduate standing. Overview of communication theory and practice as it relates to issues of culture, conflict and dispute resolution. (Y)

FILM (SPF)

2010. (FLM 2010) (VP) Introduction to Film. (ENG 2450) Cr. 4

Material fee as indicated in *Schedule of Classes*. Examination of film techniques and basic methods of film analysis. (T)

2020. (FLM 2020) (VP) History of Film. (ENG 2460) Cr. 3

Material fee as indicated in *Schedule of Classes*. 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. (T)

5020. Studies in Film History. Cr. 4(Max. 12)

Prereq: FLM 2010 or FLM 2020; junior standing or above. Material fee as indicated in *Schedule of Classes*. 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*. (Y)

5060. Documentary and Non-Fiction Film. Cr. 4

Prereq: FLM 2010 or FLM 2020; junior standing or above. Material fee as indicated in *Schedule of Classes*. Study of the non-fiction film made for a social, cultural, or political purpose; screening and analysis of selected films. (Y)

5250. Screenwriting. Cr. 3

Prereq: SPR 4210, 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)

5400. (SPR 5400) Techniques of Film/Video Production. Cr. 4

Prereq: completion of ten credits of film studies courses; junior standing or above. Material fee as indicated in *Schedule of Classes*. Experience with the preparation, shooting and editing of video projects in film-style production. (T)

5440. Film Production. Cr. 4

Prereq: SPF 5400, senior standing or above, production-ready script, consent of instructor. All aspects of 16mm sound film production from scripting and budgeting through direction and cinematography to post-production AB roll editing and sound mixing. (B)

5460. Motion Picture Animation Techniques. Cr. 3

Prereq: junior standing or above. Material fee as indicated in *Schedule of Classes*. Theory and application of various forms and styles of film animation. (B)

JOURNALISM (SPJ)

1000. Journalism Practicum. Cr. 1

Prereq: written consent of instructor. Open only to students in Detroit Free Press Apprentice Program. For Detroit High School students in summer journalism apprenticeship job program. Students act as interns at Detroit Free Press. Apprentices write three stories (S)

1500. (SPB 1500) Survey of Mass Communication. (SPC 1500)(SPR 1500). Cr. 3

Required of all Communication Department majors. Introductory course in understanding the communication industry and principles and practice of mass communications in the United States. (T)

2010. Journalistic Grammar and Style. Cr. 2

Grammar use in journalism; Associated Press Style Book. (T)

2020. (CL) Using Computers in Journalism. Cr. 1

Prereq: basic typing skills. Teaches students how to write on MAC system in journalistic style. (T)

2100. News Reporting. Cr. 4

Prereq: SPJ 1500, 2010, and 2020, or consent of program director. Basic reporting: getting the facts and writing them well. Journalism skills course. (T)

2250. South End Workshop. Cr. 3

Prereq: SPJ 2100 or consent of instructor. Students work in various editing, reporting and photography positions at student newspaper. (T)

2280. Photojournalism. Cr. 3

Still photography for print media. Camera, lighting and composition techniques for handling news, portrait, feature and illustration photographs. Students must supply an adjustable 35mm camera, color slide film, and film development, to complete graded assignments. Journalism skills course. (Y)

3100. Public Affairs Reporting. Cr. 3

Prereq: SPJ 2100 Advanced news reporting, focusing on governmental stories. (T)

3210. (CL) News Editing. Cr. 4

Prereq: SPJ 2100. Material fee as indicated in *Schedule of Classes*. Copy reading, proofreading, headline writing, AP style, familiarization with and use of VDTs. Journalism skills course. (T)

3220. Newspaper Design and Layout. Cr. 4
Prereq: SPJ 2100 with grade of C or better. Theory and practice of designing and layout of newspapers and newspaper pages. (Y)

3410. Radio and Television News Reporting. Cr. 4
Prereq: SPJ 2100; must have access to cassette tape recorder. Techniques of preparing news for broadcasting; practical experience in the studio presentation of news. Journalism skills course. (Y)

4000. Journalism Internship. Cr. 3 (Max. 6)
Prereq: completion of fifteen credits in journalism major sequence. Open only to journalism majors. Work assignments on daily or weekly newspapers, radio-television stations or public relations and advertising agencies. Journalism skills course. (T)

4010. Special Topics in Journalism. Cr. 3 (Max. 9)
Prereq: consent of instructor. Special areas of interest, such as multicultural communication, sports writing, business writing, gender factors in journalism. (Y)

4100. Feature Writing. Cr. 4
Prereq: SPJ 2100. Advanced news reporting, focusing on feature writing. (T)

4250. Reporting Race, Sex, and Culture. Cr. 3
Prereq: SPJ 2100 and 4100. Issues of gender, culture and race in media coverage, with some content analysis. Preparation for students to handle this content with greater sensitivity and accuracy. (T)

4450. Writing the Column, Editorial and Review. Cr. 4
Prereq: SPJ 2100 with grade of C or better. The writing of newspaper opinion in its various forms. (Y)

4990. Directed Study. Cr. 1-3 (Max. 4)
Prereq: SPJ 2100; written consent of adviser and Journalism Area Head. Open only to journalism majors. Supervised individual research. (T)

5020. 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)

5210. Newsletters and Corporate Publications. Cr. 4
Prereq: SPJ 3210. Material fee as indicated in *Schedule of Classes*. Editing journalism newsletter; field trips to area magazines; editing internal publications. Journalism skills course. (T)

5300. Desktop Publishing. Cr. 4
Practical skills course in publishing newsletters, magazines, newspapers and books; emphasis on new computer technology, so-called '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: SPJ 2100 and 3210. Advanced reporting techniques involving use of Freedom of Information Act and computer-assisted data base searches; accessing public records. (I)

5460. Magazine Writing. Cr. 3
Prereq: SPJ 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)

5500. Publishing on the Internet. Cr. 3
Prereq: SPJ 5300. Technique and goals of publishing on World Wide Web. Preparing graphics, learning HTML, uses of World Wide Web. (Y)

5700. Political and Governmental Reporting. Cr. 4
Prereq: SPJ 2100, 4100. Covering politics, governmental and public affairs in the media. (Y)

5993. (WI) Writing Intensive Course in Journalism. Cr. 0
Prereq: junior standing; satisfactory completion of English Proficiency Examination; consent of instructor; coreq: SPJ 4100. 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)

5996. Professional Issues in News Media Management. Cr. 3
Prereq: SPJ 4100 or consent of instructor. Majors must elect in last 12 credits of study prior to graduation. Capstone course: key issues of ethics and management in journalism. (Y)

6300. Advanced Desktop Publishing. Cr. 3
Prereq: SPJ 5300. Advanced planning, development and production processes essential to creation of corporate publications; including brochures, newsletters, annual reports, marketing collateral materials, grant and proposal documents. Writing and strategic communication emphasis. (Y)

6310. Advanced Investigative Reporting. Cr. 4
Prereq: SPJ 5310. Advanced use of Freedom of Information Act and computer-assisted reporting techniques in a major project. (Y)

RADIO and TELEVISION (SPR)

1050. Topics in Entertainment. Cr. 1 (Max. 6)
Topics to be announced in *Schedule of Classes*. (S)

1500. (SPB 1500) Survey of Mass Communication. (SPC 1500)(SPJ 1500). Cr. 3
Required of all Communication Department majors. Introductory course in understanding the communication industry and principles and practice of mass communications in the United States. (T)

2110. Radio and Television Announcing. Cr. 3
Prereq: SPR 2010. Material fee as indicated in *Schedule of Classes*. Theory and practice in broadcast media performance. (T)

2670. Radio-Television-Film Laboratory. Cr. 1(Max. 4)
Prereq: SPR 2010; written consent of instructor. Practical experience in workshop projects. (T)

3010. Mass Media Analysis and Criticism. Cr. 3
Prereq: SPR 2010. Material fee as indicated in *Schedule of Classes*. Formal properties and aesthetic considerations in media, especially film and television. (T)

3110. Television Performance. Cr. 3
Prereq: SPR 2110. Material fee as indicated in *Schedule of Classes*. Practical application of the principles and techniques of television performance. (T)

4210. Writing for Radio-Television-Film. Cr. 3
Prereq: SPR 2110 or SPC 3170 and a second English writing course after ENG 1020, with grades of C or above. Application of writing principles to various forms of copy; continuity, commercials, public service announcements, features, documentary, drama. (T)

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)

4310. Audio Production. Cr. 4
Prereq: SPR 4210; junior standing or above. Material fee as indicated in *Schedule of Classes*. Theory and practice in sound production techniques and experimentation with creative audio production. (T)

4410. Television Production. Cr. 4

Prereq: SPR 4210; junior standing or above. Material fee as indicated in *Schedule of Classes*. 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. (T)

5010. Studies in Broadcast History. Cr. 3

Prereq: completion of Historical Studies and Social Science requirements; or consent of instructor. Analysis of history of broadcasting, or of an aspect such as a period, genre, or medium. (B)

5030. Studies in Television Criticism and Theory. Cr. 3

Prereq: grade of "C" or better in SPR 3010, or consent of instructor. Analysis of development of a television genre, comparison of genres, or specific approach to television criticism. (B)

5210. Advanced Radio-Television-Film Writing. Cr. 3(Max. 6)

Prereq: SPR 4210, junior standing or above. Principles and practice in creating the full-length dramatic or documentary script for broadcast or film production. (Y)

5400. Techniques of Film/Video Production. (SPF 5400). Cr. 4

Prereq: SPR 4310, 4410. Material fee as indicated in *Schedule of Classes*. Experience with the preparation, shooting and editing of video projects in film-style production. (T)

5420. Director's Workshop. Cr. 4

Prereq: SPR 4310, 4410, 5400; senior standing or above; production-ready script; consent of instructor. Material fee as indicated in *Schedule of Classes*. Organization and execution of the film and video director's tasks through production of a major creative project. (Y)

5530. Audience Measurement and Survey Techniques. Cr. 3

Prereq: completion of at least twelve credits in SPR courses; junior standing or above. Theory and application of quantitative research techniques in surveying audiences for electronic media. (B)

5550. Electronic Media Management. Cr. 3

Prereq: completion of at least twelve credits in SPR courses; junior standing or above. Principles of broadcast station and cable management; emphasis on business management, marketing, sales and audience analysis. Business plan, including market and media survey, required. (Y)

5570. International Communications. Cr. 3

Prereq: SPR 1500; junior standing or above. World mass communications systems, organizations and objectives. Political, economic and legal foundations of international media systems. (B)

5993. (WI) Writing Intensive Course In Radio/Television. Cr. 0

Prereq: junior standing recommended; satisfactory completion of English Proficiency Examination; consent of instructor; coreq: SPR 4210. 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)

5996. Mass Communications and Society. Cr. 3

Theoretical and practical research on the social functions and effects of the mass media; capstone course for the undergraduate Radio-Television majors and required during the final twenty-one credits of enrollment prior to graduation. (T)

6670. Internships in Radio-Television-Film. Cr. 1-4(Max. 8)

Prereq: SPR 5310 or 5400 or 5410; senior standing or above recommended; written consent of instructor. (T)

**6680. Individual Projects in Radio-Television-Film.
Cr. 3 (Max. 6)**

Prereq: SPR 5310 or 5400 or 5410; senior standing or above recommended; written consent of instructor. (T)

DANCE

Office: 3226 Old Main; 313-577-4273

Chairperson: Eva Powers

Associate Professors

Eva Jablonowski Powers, Ann Zirulnik (Emerita)

Assistant Professor

Georgia Reid

Lecturer

Linda Cleveland Simmons

Degree Programs

BACHELOR OF SCIENCE with a major in dance

The Dance Department 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 interests, 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:

Teaching major in dance for K-12 certification.

Teaching minor along with any secondary school teaching major such as music, art, special education, speech, etc.; teaching minor or specialization in dance with a physical education major.

Major in Dance leading to the Bachelor of Science degree from the College of Fine, Performing and Communication Arts.

Dance sequence within any major in the College of Fine, Performing and Communication Arts.

Bachelor of Science With a Major in Dance

The dance curriculum is designed for students who have had previous dance training and who wish to pursue careers in choreography and performance, dance history, labanotation, movement analysis and dance education.

Admissions Requirements include the general requirements for undergraduate admission to the University (see page 15) and an audition for placement at the appropriate technical level.

DEGREE REQUIREMENTS: Candidates for the bachelor's degree with a major in dance must complete 124 credits in course work, including four semesters of performance in the University Dance Company, as well as the University General Education Requirements (see page 26), College degree requirements (see page 167), and the major requirements listed below. All course work must be completed in accordance with the academic procedures of the University and the College of Fine, Performing and Communication Arts; see pages 15-45 and 167-171, respectively. Company members are required to take a technique class five days per week. Forty-eight credits must be earned in specified dance courses with grades of 'C' or better; the grade of 'D' is not acceptable in any required dance course for dance majors.

MAJOR REQUIREMENTS

	<i>credits</i>
DNC 2000 — (VP) Introduction to Dance	4
DNC 2010 — Technique Laboratory I: Part I	2
DNC 2020 — Technique Laboratory I: Part II	2
DNC 2210 — Intermediate Ballet	4
DNC 2310 — (VP) Historical Perspectives of Dance	3
DNC 2410 — Music and Dance Relationships	2
DNC 3010 — Technique Laboratory II	4
DNC 3180 — Movement Analysis I	2
DNC 3310 — Dance Production	3
DNC 4010 — Technique Laboratory III	6
DNC 4550 — Choreography I	3
DNC 5000 — Performance Tour	2
DNC 5410 — Dance Notation I	2
DNC 5550 — Choreography II	3
DNC 5996 — Choreography III	3
DNC 5610 — Dance Company I*	4
DNC 5800 — Repertory	2
DNC 5993 — (WI) Writing Intensive Course in Dance	0

Cognate Requirements — Teaching

BIO 2870 — Anatomy and Physiology	5
P E 3580 — Biomechanics	3

Cognate Requirements — Non-Teaching

Elect TWO of the following:	
THR 1010 — (VP) Introduction to Theatre	3
MUH 1340 — (VP) Music Appreciation: World Music	3
MUH 1370 — Music Appreciation: Beginnings to the Present	3
A H 1000 — (VP) Introduction to Art	4

Professional Education Sequence: required for teaching major in dance, K-12 certification:

DNE 4410 — Student Teaching and Seminar I	5
DNE 4420 — Student Teaching and Seminar II	5
DNE 4810 — Methods in Modern Dance and Ballet	3
DNE 5810 — Creative Dance for Children	3
DNC 3980 — Assisting in Dance	1
DNC 5830 — Field Work in Creative Dance	2-8
EDP 3310 — Educational Psychology	3
H E 3300 — Health of the School Child	3
RDG 4430 — (WI) Teaching Reading in Subject Matter Areas	3

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	4
DNC 2010 — Technique Laboratory I: Part I	4
DNC 2210 — Intermediate Ballet	2
DNC 2301 — (VP) Historical Perspectives of Dance	3
DNC 3010 — Technique Laboratory II	4
DNC 4550 — Choreography I	3
DNC 5610 — Dance Company I	2
DNE 4810 — Methods in Modern Dance and Ballet	3
DNE 5810 — Creative Dance for Children	3

* All majors are required to be members of the Dance Company for four semesters (one credit per semester) of DNC 5610.

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.

Performance Opportunities: The Dance Company is a performing group composed of skilled dance students who must qualify through auditions. This group presents concerts, lecture/demonstrations, and performances on campus and in the community, of works choreographed by visiting artists, by faculty, and by exceptionally talented students. All majors must qualify for and be a member of the Company for four semesters.

Departmental Scholarships

See the section on Scholarships and Financial Aid on page 169. Detailed information on all Department scholarships and awards is available in the department office.

Blanch Shafarman Memorial Award in Choreography: Award of \$200 open to any student in the W.S.U. Dance Company whose choreography is selected for public performance.

Academic Achievement Award: Award open to any full-time student majoring in dance.

Ruth Lovell Murray Tuition: Award open to any dance education major. Application deadline: August 1.

Talent Scholarship: Award of \$700 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

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

DANCE (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)

1310. Jazz I. Cr. 2 (Max. 8)

Introduction to jazz dance technique; emphasis on alignment, movement isolation, rhythmic awareness, basic dance vocabulary, historical development. (F)

1320. Jazz II. Cr. 2 (Max. 4)

Prereq: DNC 1310, consent of instructor. Continuation of DNC 1310 on a more advanced level. (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)

1420. Afro-Haitian Dance II. Cr. 2

Prereq: DNC 1410 or equiv. Continuation of DNC 1410. (W)

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

Prereq: DNC 2010. Continuation of DNC 2010. Modern dance technique of advancing difficulty; further experiences in improvisation, problem solving and composition; analysis and refinement of technique and performance skills. (W)

2210. Intermediate Ballet. 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 repertory. (F,W)

2220. Ballet IV. Cr. 2

Prereq: DNC 2210. Continuation of DNC 2210 with emphasis on advanced knowledge of classical ballet vocabulary. (T)

2310. (VP) Historical Perspectives of Dance. Cr. 3

Historical development of dance in the nineteenth and twentieth centuries; educational, ethnic, theatre and classic concert styles and their relationship to the cultural environment. (B)

2320. Traditions of African Dance in the Americas. Cr. 3

Development and integration of dances of enslaved Africans into new world societies. Influence of multiculturalism on black dance; impact of black dance on contemporary society in the Americas. (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)

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)

3110. Social Dance Forms. Cr. 2

Folk and social dances of selected historical periods; examination of the social organization of their original performance and their transformation into recreational forms. (B)

3180. Movement Analysis I. Cr. 2

Prereq: DNC 1020 or equiv. Introduction to basic concepts of innovative body therapies; practical experience in programs of body correctives. Exploration of relationships between neuromuscular retraining, alignment and technique. (B)

3190. Movement Analysis II. Cr. 3

Prereq: DNC 3180. Continuation of DNC 3180; emphasis on analysis of dance movement from an anatomical and mechanical point of view; special attention given to problems of dance technique. (I)

3210. Ballet V: Pointe. Cr. 1

Prereq: DNC 2210, 2220, or by audition. Open only to advanced dancers. Technical skill development of classical ballet dancers on pointe. (F,W)

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)

3820. (P E 3410) Physical Education for Elementary School Children I. (DNE 3820). Cr. 3

Prereq: admission to senior college. Developmental approach to elementary physical education for grades K-3. Beginning movement concepts and fundamental motor skills that are developmentally appropriate for young children to participate in games, gymnastics and creative dance. (F)

3830. (P E 3420) Physical Education for Elementary School Children II. (DNE 3830). Cr. 3

Prereq: P E 3410 or equiv. Continuation of DNC 3820, focusing on developmentally appropriate activities in physical education for grades 4-6. Investigation of individual approaches which use sport-related movement themes, sport forms, gymnastic games analysis and physical fitness. Curriculum design and implementation of developmentally-appropriate activities in practicum application. (W)

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. 2 (Max. 16)

Prereq: DNC 2010 or equiv. Continuation of DNC 3010. Modern dance technique, advanced level. (F,W)

4210. Ballet VI: Variations. Cr. 1

Prereq: expertise on pointe; admission audition. Open only to advanced dancers. Learning various solo exercises from standard classical repertoire; music by Chopin, Adams, Minkus, Tchaikovsky. (F,W)

4550. Choreography I. Cr. 3

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)

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, fad and social dance forms. (T)

5200. Survey of World Dance. Cr. 4

Assigned readings, writing, field trips, laboratory experiences. Multicultural diversity in thought and discipline; interdependent nature of dance; global perspective and definition. (F,W)

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)

5460. Music and Dance in the Music Class II. (TED 5460) (MED 5580). Cr. 1-2

Prereq: consent of instructor. Continuation of DNC 5440; added experience using the Orff instrumentation for accompaniment. (S)

5550. Choreography II. Cr. 3

Prereq: DNC 4550 or equiv. Selection of dance themes, construction of dances, small group studies. Aesthetic considerations, form and elements of performance. (B)

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. (TED 5810)(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. 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 5810 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)

5996. Choreography III. Cr. 3 (Max. 6)

Prereq: DNC 5550, choreography selected and produced in three WSU concerts. 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 (DNE)

3820. (P E 3410) Physical Education for Elementary School Children I. (DNC 3820). Cr. 3

Prereq: admission to senior college. Developmental approach to elementary physical education for grades K-3. Beginning movement concepts and fundamental motor skills that are developmentally appropriate for young children to participate in games, gymnastics and creative dance. (F)

3830. (P E 3420) Physical Education for Elementary School Children II. (DNC 3830). Cr. 3

Prereq: P E 3410 or equiv. Continuation of DNE 3820, focusing on developmentally appropriate activities in physical education for grades 4-6. Investigation of individual approaches which use sport-related

movement themes, sport forms, gymnastic games analysis and physical fitness. Curriculum design and implementation of developmentally appropriate activities in practicum application. (W)

4410. Student Teaching and Seminar I. (Fld:14). Cr. 2-6
 Prereq: 2.5 h.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. (Fld:14). Cr. 2-6
 Prereq: 2.5 h.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)

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)



FILM STUDIES

Offices: 51 West Warren, 313-577-2978;
 519 Manoogian, 313-577-4166

Co-Directors: Robert Burgoyne, Jackie Byars

Advisory Committee

AFRICANA STUDIES: Michael Martin

COMMUNICATION: Jackie Byars, Robert Steele

ENGLISH: Lesley Brill, Robert Burgoyne, Corey Creekmur, Cynthia Erb, Margaret Jordan, Alison Landsberg, George Tysh

ROMANCE LANGUAGES: Andrea diTommaso

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 (FLM) 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, and Romance Languages) continue historical and aesthetic studies, but they are also concerned with theories of film, particular genres and directoral 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 three departments noted above. Interested students should consult a committee member whose field most closely approximates the student's interests.

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 26), College degree requirements (see page 167), 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 pages 15-45 and 217-221, respectively.

Major Requirements: students majoring in film studies must complete a minimum of thirty-four credits, distributed as follows:

CORE COURSES (Fourteen Credits) credits

FLM 2010 —(VP) Introduction to Film	4
FLM 2020 —(VP) History of Film	3
SPF 5400 —Techniques of Film/Video Production	4
ENG 5040 —Film Criticism and Theory	3
FLM 4997 — Senior Assessment Essay	1

ELECTIVE COURSES (Twenty Credits)

AFS 3200 — The African-American Cinematic Experience	4
AFS 5800 — Third World Cinema	3
ENG 5060 —Styles and Genres in Film	3 (Max. 9)
ENG 5070 —Topics in Film	3 (Max. 9)
FLM 3990 —Directed Study	1-3
SPF 5020 —Studies in Film History	4 (Max. 12)
SPF 5060 —Documentary and Non-Fiction Film	4
SPF 5250 —Screenwriting	3
SPF 5440 —Film Production	4
SPR 5030 — Studies in Television Criticism and Theory	3
SPR 6680 — Individual Projects in Radio-Television-Film	3 (Max. 6)

Minor in Film Studies

Completion of a minor in film studies requires nineteen credits including FLM 2010 and any other selections from either the core or elective courses cited above under the Bachelor of Arts major program.

UNDERGRADUATE COURSES (FLM)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

The following courses, numbered 0900-6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 487.

2010. (VP) Introduction to Film. (ENG 2450). Cr. 4
Material fee as indicated in *Schedule of Classes*. Examination of film techniques and basic methods of film analysis. (T)

2020. (VP) History of Film. (ENG 2460). Cr. 3
Material fee as indicated in *Schedule of Classes*. 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. (T)

3200. (AFS 3200) The Afro-American Cinematic 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)

3990. Directed Study. Cr. 1-3(Max. 6)
Prereq: written consent of adviser; completion of twelve credits in film courses from FLM, ENG, or SPF. (T)

4997. Senior Assessment Essay. 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)

5040. (ENG 5040) Film Criticism and Theory. Cr. 3
Prereq: ENG 2450 or another film course or consent of instructor. Material fee as indicated in *Schedule of Classes*. Survey of the major film theories from Munsterberg to contemporary film semiotics; examination of various attempts made at a systematic understanding of the cinema. (B)

5060. (ENG 5060) Styles and Genres in Film. Cr. 3(Max. 9)
Material fee as indicated in *Schedule of Classes*. 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*. (Y)

5070. (ENG 5070) Topics in Film. Cr. 3(Max. 9)
Material fee as indicated in *Schedule of Classes*. Topics (such as film and fusion of the arts) to be announced in *Schedule of Classes*. (Y)

5800. (AFS 5800) Third World Cinema. Cr. 4
Prereq: upper division or graduate standing. Study of the cinematic traditions and film practices in the Third World with emphasis on anticolonial and post colonial political cinema. (B)

5993. (WI) Writing Intensive Course in Film Studies. Cr. 0
Prereq: junior standing, consent of instructor, satisfactory completion of English Proficiency Examination; coreq: ENG 5040. 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)

MUSIC

Office: 1321 Old Main; 313-577-1795
Chairperson: Dennis J. Tini
Associate Chairperson: Ray P. Ferguson
Graduate Officer: Mary A. Wischusen
Academic Services Officer: Margot Demarais

Professors

Harold H. Arnoldi, Ray P. Ferguson, James J. Hartway, Dennis J. Tini

Associate Professors

James P. Lentini, Kypros L. Markou, Matthew Michaels, Doris L. Richards, Mary A. Wischusen,

Assistant Professors

Frances Brockington, Christopher Collins, Nadine Hubbs, Robert Townsend

Lecturers

Robert Conway, Cheryl V. Harden, Stephen Zdzinski

Adjunct Professors

Brazeal Dennard, David DiChiera, Neeme Jarvi

Emeriti Faculty

Lillian J. Cassie, Carol J. Collins, Mark F. DeLeonard, Morris Hochberg, Malcolm M. Johns, Bohdan J. Kushnir, Harry Langsford, Joseph Labuta, Robert F. Lawson, C. William Young

Program Directors

Harold Arnoldi (brass), Frances Brockington (voice), Ray Ferguson (organ/piano), Paul Ganson (woodwinds), James Hartway (theory/composition), James Lentini (guitar), Kypros Markou (strings), Matthew Michaels (jazz studies), Dennis Tini (choral), Robert Townsend (music education), Stephen Zdzinski (percussion)

Adjunct Faculty

Geoffrey Applegate (violin, DSO), Emily Austin (violin, former DSO), Gerrie Ball (accompanist), Clement Barone (flute, former DSO), George Benson (jazz saxophone), Gary Blumer (jazz piano), Emmanuelle Boisvert (violin, DSO), Jack Brokensha (vibes, studio recording), Steven Carryer (jazz guitar, ensembles), Marcy Chanteaux (cello, DSO), Keith Claeys (percussion ensemble), Maurice Davis (jazz trumpet), Earl DeForest (jazz saxophone), Brazeal Dennard (choral), Lee Dymant (classical guitar), Kenny Everts (jazz percussion), Gordon Finlay (voice), Paul Ganson (bassoon, DSO), Robert Gladstone (bass, DSO), Ed Gooch (trombone), Oliver Green (bass clarinet, DSO), Carolyn Grimes (voice), Morris Hochberg (violin, former DSO), William Homer (trumpet), Wesley Jacobs (tuba, DSO), Max Janowsky (bass, DSO), David Jennings (trumpet), Malcolm Johns (choral), Marilyn Jones (music education), Ronald Kischuk (trombone), Gale Kramer (organ), Joseph Labuta (music education), Oscar LaGasse (tuba, DSO), Harry Langsford (choral), Gary Leach (jazz bass), Min-Duo Li (piano), Lawrence Liberson (clarinet, DSO), Joseph LoDuca (jazz guitar, film music), William Lucas (trumpet, DSO), Pauline Martin (piano), Don Mayberry (jazz bass), Jerry McKenzie (jazz percussion), Glen Mellow (viola, DSO), Russ Miller (jazz ensembles), Stephen Molina (bass, DSO), Ervin Monroe (flute, DSO), Diana Munch (accompanist), Larry Nozero (jazz woodwinds), Ted Oien (clarinet, DSO), Dan Pliskow (jazz bass), Richard Rattner (business of music), Ernest Rodgers (jazz ensemble), Pat Terry-Ross (harp), Eddie Russ (jazz piano), James Ryan (jazz percussion), Joseph Skrzynski (trombone, DSO), Anna Speck (voice), Michael Stockdale (guitar), Joseph Striplin (violin, DSO), Gordon Stump (trumpet), David Taylor (jazz percussion), Larry Teal (saxophone), April Arabian Tini (vocal jazz), John Trudell (jazz trumpet), Samuel Tundo (percussion, DSO), Brian Ventura (oboe, DSO), Eugene Wade (horn, DSO), Corbin Wagner (horn, DSO)

Degree Programs

BACHELOR OF ARTS with a major in music

BACHELOR OF MUSIC with a concentration in church music, composition, jazz studies and contemporary media, music education, music industry management, music technology, music theatre, music therapy, performance, and theory

***MASTER OF ARTS** with a major in music

***MASTER OF MUSIC** with a concentration in composition, choral conducting, theory, 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 Department of Music students must secure a Department of Music adviser's signature approving the program request before pursuing registration for courses. Fees for applied lessons (MUP series) must be paid at time of registration.

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 pages 15-45 and 167-171, respectively.

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 'D' is not an acceptable grade for degree credit. If the grade of 'D' or 'E' 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.

BANDS: Woodwind, brass and percussion players are welcome to join the Concert Band. Symphony Band members are chosen through competitive auditions. Students from both groups may play in the Marching Band.

CHORUSES: 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.

JAZZ: Though music majors are given highest priority for jazz band positions, non-music majors are welcome to audition. Jazz Ensembles (MUA 2820) is the Division's most advanced course.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

ORCHESTRA: There are usually a number of openings for string players in the Orchestra. There are usually a number of openings, by audition, in all sections.

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 26), College degree requirements (see page 167), 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 167). **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* 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 REQUIREMENTS

All undergraduate music majors must fulfill a minimum of eight semesters of a 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
2. MUH 3310
3. MUA 2670
4. MUH 1340

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 satisfaction of the general requirements for undergraduate admission to the University (see page 15) as well as upon audition and approval of the divisional 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 26), College degree requirements (see page 167), as well as the Music Core (see above, under Bachelor of Arts), a Performance Ensemble, 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
(Note: MUT 2160 and 2170 are *not* required in the interdisciplinary curriculum in Music Theatre.)
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. Specific requirements for the various concentrations offered under the Bachelor of Music are as follows:

(a) **Bachelor of Music with a Concentration in Composition:** Performance Ensemble of the principal instrument;

(b) **Bachelor of Music with a Concentration in Instrumental Music Education:**

1. Winds or percussion—MUA 2800
2. Strings—MUA 2810;

(c) **Bachelor of Music with a Concentration in Vocal Music Education:** eight semesters of MUA 2840 or 2850 (MUA 2830 or 2870 may be substituted for a maximum of four semesters);

- (d) **Bachelor of Music with a Concentration in Performance:**
1. Organ—any Performance Ensemble (minimum four semesters of MUA 2840 or 2850)
 2. Piano—any Performance Ensemble (minimum four semesters of MUA 2840 or 2850)
 3. Voice—eight semesters of either MUA 2840 or 2850
 4. Winds or percussion—minimum of two semesters of MUA 2810 (except saxophone) and four semesters of MUA 2800
 5. Strings—MUA 2810
 6. Classic Guitar—any Performance Ensemble
 7. Harp—any Performance Ensemble at the discretion of the Chairperson

(e) **Bachelor of Music with a Concentration in Church Music:** any vocal Performance Ensemble with a minimum of eight semesters (including at least four semesters of mixed vocal ensemble);

(f) **Bachelor of Music with a Concentration in Theory:** Performance Ensemble of the principal instrument;

(g) **Bachelor of Music with a Concentration in Music Management:** Performance Ensemble of the principal instrument.

(h) **Jazz Studies majors** must fulfill the following specific ensemble requirements:

1. Eight semesters of MUA 2820;
2. Recommended elections from MUA 2800, 2810, 2830, 2840, 2850, 2860 or 2807.

Chamber music ensemble requirements for specific Bachelor of Music curricula:

(Chamber music ensemble is defined as the appropriate section of MUA 2880)

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 Church Music (one semester);
3. Bachelor of Music with a Concentration in Jazz Studies and Contemporary Media (two semesters).

— **Bachelor of Music Concentrations**

Church Music (123 Credits)

- (a) MUT 2040, 2100;
- (b) MUA 2600, 2610, 2670;
- (c) MUH 3310, 5350;
- (d) Two semesters of MUA 5730;
- (e) Two semesters of MUP 2210;
- (f) Twenty-four credits of MUP 2200;
- (g) Performance on a student recital in the sophomore year; a half recital in the junior year; and a full recital in the senior year.

Theory (123 Credits)

Composition (120 Credits)

- (a) MUT 2040, 2100, 2120, 3000, 3100, 3110, 5060; MUH 3310, and
 1. For Composition majors—MUT 4100, 4110; MUA 1730, 1740, 1750, 1760; PHI 3700; MUP 2210
 2. For Theory majors—Foreign Language Group Requirement (French or German recommended), PHI 3700; MUT 5040; MUP 2210
- (b) Senior projects—
 1. For Composition students: presentation of an original composition approved by the Director of the Theory and Composition Division
 2. For Theory students: presentation of a lecture coordinated by the Director of the Theory and Composition Division;

- (c) MUA 2670, and four semesters of piano in addition to MUA 3790.

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 2670, 2680;
- (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 2670;
- (d) MED 2500, 3500, 4510, 4530, 4560, 4570, 5550, 5590;
- (e) Six credits selected from MUA 1700, 1730, 1740, 1750 or 1760;
- (f) MUH 3310;
- (g) EDP 3310, RDG 4430.

Performance (120 credits)

- (a) MUT 2100;
- (b) MUH 3310 and 5350;
- (c) Twenty-four credits in MUP 2200–2280 in the principal instrument (thirty credits maximum);
- (d) Two semesters of one secondary instrument (violinists elect viola);
- (e) Performance on a student recital in the sophomore year; a half recital in the junior year; and a full recital within the last two semesters;
- (f) Specific additional requirements as follows:
 1. Piano— MUT 2040, 3000; MUA 2880 (four semesters);
 2. Organ— MUT 2040; two semesters of MUA 5730; keyboard section of MUA 3790;
 3. Brass, woodwinds, percussion — MUT 3000; performance ensemble must include a minimum of two semesters of MUA 2810 (except saxophone) and four semesters of MUA 2800; four semesters of MUA 2880 (chamber ensemble);
 4. Voice— proficiency in two foreign languages other than the native tongue at the discretion of the adviser;
 5. Strings — eight semesters of MUA 2810 and four semesters of MUA 2880.
- (g) Additional music electives as needed and as specified by the program adviser.

Jazz Studies (122 Credits)

- (a) Eight semesters of the principal instrument selected from MUP 5200–5290;
- (b) MUT 2120, 3000, 3100, 5110, 5120, 5130;
- (c) MUH 3360;
- (d) MUA 2670, 5600, 5610, 5630, 5690;
- (e) MUA 2880 (three semesters);
- (f) MUA 2820 (eight semesters);
- (g) Additional music electives, senior recital or project selected with the assistance of the Divisional Director.

Music Management (128 Credits)

Students may not elect more than twenty-nine credits in the School of Business Administration for this degree.

- (a) Four semesters of the principal instrument selected from MUP 2200–2280 or MUP 5210–5290;
- (b) MUH 1340 or 1350;
- (c) MUA 2400, 4650, 5600, 5610, 5630, 5700, 5800;
- (d) ENG 3010;
- (e) ECO 2010, 2020;

- (f) ECO 4100 or FBE 3300;
- (g) ISM 2630; ACC 3010;
- (h) MAT 1500;
- (i) MKT 5300;
- (j) MGT 4510 or 4520;
- (k) Electives selected with assistance of the Divisional Director.

Music Technology (128 Credits)

- (a) Four semesters of the principal instrument selected from:
MUP 2200–2280 or MUP 5210–5290 at one credit per semester;
- (b) MUA 5600, 5610, 5630, 5640, 5650, 5660;
- (c) CSC 1050,
- (d) EET 2000, 2100, 2720, 3100, 3720;
- (e) MAT 1800, 3403;
- (f) MUH 3310;
- (g) Internship (two semesters).

Music Theatre (128 Credits)

- (a) MUA 28x0 (ensemble or musical course: six semesters), 2860;
- (b) MUP 2220 (8 credits);
- (c) MUH 1340 or 1350; and 2320, 5320, 5330;
- (d) THR 1020, 1040, 1050, 2010, 2020, 2030, 3020, 3050, 5050, 5180, 5200;
- (e) Electives selected with assistance of the Divisional Director.

Music Education Programs

Candidates in music education programs must complete the professional education requirements of the College of Education for secondary certification; see page 103. Candidates in music education programs may elect, in addition to this program, the specific requirements of any other program offered in the Music Department.

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 2105;
- (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.

Departmental Financial Aid

See the section on Scholarships and Financial Aid on page 169. Information on all Department scholarships and awards is available in the department office.

Recipients of the following scholarships are chosen in May by the music faculty and awarded during the fall semester:

Sophie Angelescu Scholarship: Award of \$800, in memory of Valter Poole, open to an outstanding music major who plays an orchestral instrument.

Avery Crew Scholarship: Award of \$125; open to music major studying voice, when funding exists.

Angelo Cucci Scholarship: Award of \$500 for a student in instrumental music education; available when funding exists.

Brazeal Dennard Youth Chorale Scholarship: amount varies; available when funding exists.

Detroit Symphony Orchestra — Bradlin Scholarship: Award of \$500 open to any outstanding music major who plays an orchestral instrument.

Detroit Symphony Orchestra — Civic Scholarship: for an orchestral instrument student; amount varies; available when funding exists.

Brad Eisenbrey Scholarship: Award of \$500; preference given to composition student; available when funding exists.

Joseph Fava Scholarship: Award to a guitar performance student when funding exists.

Friends of Music Scholarship: Award of \$1000 open to any music major who is an outstanding performer; available when funding exists.

Rebecca Katzman Froman Piano Scholarship: Award of \$500 open to an outstanding piano student.

Misha Kottler Scholarship: \$500 award to piano performance major when funding exists.

Harry M. Langsford Scholarship: Award of \$250, available when funding exists to an outstanding choral or vocal student.

Helen Fairchild Larson Scholarship: Award of \$500 to church music major when funding exists.

LeFevre Scholarship: Award of \$500 open to any music major

Liberace Scholarship: Two awards of \$2500 open to full-time music majors in jazz or classical curriculum.

Christopher Mac Scholarship: Award of \$250 open to outstanding member of the Men's Glee Club, when funding exists.

Frank Murch Scholarship: Awarded to a Bachelor of Arts in music or piano performance, when funding exists.

Pantaleo Scholarship: Award of \$250, open to an outstanding music major.

Molly Plotkin Memorial Scholarship: Award of \$500, when funding exists; preference given to music education major.

President's Endowed Scholarship: Amount to be determined; begins in 1997–98.

Presser Foundation Scholarship: Award of \$2250 open to an outstanding music major completing the junior year.

Joan Rossi Memorial Scholarship: Award of \$1000 open to any full-time music major who is an outstanding vocal performer.

Gill Sirotti Scholarship: Award of \$250, when funding exists, open to outstanding member of Men's Glee Club.

Vocal Music Education Scholarship: Award of \$250 open to an outstanding vocal music major.

The following scholarships are subject to other conditions than those cited above:

ASCAP — Hubbell Scholarship: Award of \$500, when funding is available, open to an outstanding music student pursuing a degree in composition.

Dumesnil Scholars: Award open to any music major; amount depends on funds available.

UNDERGRADUATE COURSES

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

MUSIC EDUCATION (MED)

2500. Piano Skills for the Music Classroom. Cr. 2

Prereq: MUA 1790, MUA 2790, MUA 3790 or equiv. Open only, by audition, to students in the vocal music education curriculum. Continuation of MUA 3790. Additional practice with functional skills needed in music classroom. Students acquire a repertoire of musical selections commonly used in the educational setting. (W)

3500. Aesthetic and Cultural Foundations of Music Education. Cr. 2

Historical, philosophical, professional, legal and ethical considerations. (W)

3990. Directed Study. Cr. 1–3(Max. 6)

Prereq: consent of adviser. (F,W)

4510. General Music in the Schools. Cr. 3

Prereq: MED 3500. Methods, materials and techniques for teaching general music in the schools. (F)

4530. Vocal Music in Secondary Schools. Cr. 3

Prereq: MED 4510. Open only to vocal music education majors. Instructional techniques and materials for secondary school choral and general music courses. Observation of area school vocal programs. (W)

4540. Instrumental Music in the Schools I. Cr. 3

Prereq: MUA 1730, MUA 1740, MUA 1750, MUA 1760, MED 3500. Teaching techniques, materials and organization of instrumental music in elementary schools. (F)

4550. Instrumental Music in the Schools II. Cr. 3

Prereq: MED 4540. Teaching techniques, materials and organization of instrumental music in secondary schools. (W)

4560. Practicum in Music Education. Cr. 2

Prereq: MED 3500. Offered for S and U grades only. Observation and participation in music education programs in area public schools. (F,W)

4570. Student Teaching and Seminar. Cr. 8

Prereq: 2.5 h.p.a. in major; admission to student teaching. Offered for S and U grades only. Directed teaching in school music. (F,W)

5520. Marching Band Techniques. Cr. 3

Planning, charting, and rehearsal techniques for marching band; emphasis on contemporary, computer-generated drill designs; practical projects in developing a complete marching band program. (S)

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. (S)

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. (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. (S)

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 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 (MUA)

1050. Topics in Entertainment. Cr. 1(Max. 6)

Topics to be announced in *Schedule of Classes*. (F,W)

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. (F,W)

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. (T)

1730. String Class. Cr. 2(Max. 6)

Prereq: MUT 1100 or equiv. Techniques and fundamental problems in the playing and teaching of stringed instruments. (F)

1740. Woodwind Class. Cr. 2(Max. 6)

Prereq: MUT 1100 or equiv. Techniques and fundamental problems in the playing and teaching of woodwind instruments. (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. (F)
- 1760. Percussion Class. Cr. 2**
Prereq: MUT 1100 or equiv. Techniques and fundamental problems in the playing and teaching of percussion instruments. (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; concepts of copyright law; licensing; publishing; songwriting and recording contracts. Research projects and/or readings. (F)
- 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)
- 2670. Conducting Techniques I. Cr. 2**
Prereq: MUT 2160, MUT 2170 or equiv. Rudiments of conducting; special attention to baton techniques. (F)
- 2680. Conducting Techniques II. Cr. 2**
Prereq: MUA 2670. Continuation of MUA 2670. Score reading and rehearsal techniques. (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. 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)
- 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)
- 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. Material fee as indicated in *Schedule of Classes*. 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. (F, W)
- 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. (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. (F)
- 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. (W)
- 5660. Recording Workshop. 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. (F)
- 5680. Introduction to Music Therapy. Cr. 2**
Survey of the field of music therapy; qualifications and skills required to become a Registered Music Therapist; observation of music with retarded, mentally ill, and physically handicapped clients. (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)
- 5740. Foundations of Musical Behavior. Cr. 3**
Prereq: PHY 3100, junior standing. No graduate credit. Research methods in musical ability, functional music, musical learning, musical preferences, aural responses. (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. (W)

MUSIC HISTORY (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

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)

2000. Music of Today. Cr. 3-9

Development of listening skills through historical study of a variety of non-classical musical styles including: country-western, gospel, and rock-and-roll. Topics may vary each semester. (I)

2320. History of Opera. Cr. 3

Survey of opera, its history, development and literature. (B:F)

2330. History of Oratorio. Cr. 3

Prereq: MUH 2320. Survey of oratorio, its history, development and literature. (B:W)

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)

5000. Music of Today. Cr. 2

Prereq: consent of instructor; post-bachelor of graduate standing. Development of listening skills through historical study of a variety of non-classical musical styles including: pop, jazz, country-western, gospel and rock and roll. Topics may vary. (F,W)

5300. Music Research. Cr. 3

Prereq: graduate standing in music or consent of instructor. Music bibliography and research techniques. (F)

5320. Music Theatre History I. Cr. 3

Grad. prereq. or coreq: MUH 5300. Survey of music theatre history from 1900 to 1950; research paper required if elected for graduate credit. (B)

5330. Music Theatre History II. Cr. 3

Grad. prereq. or coreq: MUH 5300. Survey of music theatre history from 1950 to the present; research paper required if elected for graduate credit. (B)

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:F)

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:W)

5390. (MUH 3390) History of Jazz II. Cr. 3

Prereq: MUH 5360. Continuation of MUH 5360. (W)

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 MUT 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 ten 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 or 3

Coreq: performance ensemble in the MUA 28XX series as required in curriculum being pursued. Only open, by audition, to music majors in B.M. curriculum who elect 8 credits or more. (F,W)

2210. Piano. Cr. 1 or 3

Coreq: performance ensemble in the MUA 28XX series as required in the curriculum being pursued. Only open, by audition, to music majors in a B.M. curriculum who elect 8 credits or more. (F,W)

2220. Voice. Cr. 1 or 3

Coreq: performance ensemble in the MUA 28XX series as required in curriculum being pursued. Only open, by audition, to music majors in a B.M. curriculum electing 8 credits or more. (F,W)

2230. Stringed Instruments. Cr. 1 or 3

Coreq: performance ensemble in the MUA 28XX series as required in curriculum being pursued. Only open, by audition, to music majors in a B.M. curriculum electing 8 credits or more. (F,W)

2240. Woodwind Instruments. Cr. 1 or 3

Coreq: performance ensemble in the MUA 28XX series as required in curriculum being pursued. Only open, by audition, to music majors in B.M. curriculum electing 8 credits or more. (F,W)

2250. Brasswind Instruments. Cr. 1 or 3

Coreq: performance ensemble in MUA 28XX series as required in curriculum being pursued. Only open, by audition, to music majors in B.M. curriculum electing 8 credits or more. (F,W)

2260. Percussion Instruments. Cr. 1 or 3

Coreq: performance ensemble in MUA 28XX series as required in curriculum being pursued. Only open, by audition, to music majors in B.M. curriculum electing 8 credit hours or more. (F,W)

2270. Harp. Cr. 1 or 3

Coreq: performance ensemble in MUA 28XX series as required in curriculum being pursued. Only open, by audition, to music majors in B.M. curriculum electing 8 credits or more. (F,W)

2280. Classic Guitar. Cr. 1 or 3

Coreq: performance ensemble in MUA 28XX series as required in curriculum being pursued. Only open, by audition, to music majors in B.M. curriculum electing 8 credits or more. (F,W)

3290. Bayan. Cr. 1 or 3

Prereq: major standing in B.M. curriculum for which MUP course is required, and audition for first election. Open only to students with less than 10 semesters in private performance course work including transfer credit. (F,W)

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

Coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

5220. Jazz Voice. Cr. 1

Coreq: MUA 2820. Only open, by audition, to jazz studies majors. (F,W)

5230. Jazz Strings. Cr. 1

Coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

5240. Jazz Woodwinds. Cr. 1

Coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

5250. Jazz Brasswinds. Cr. 1

Coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

5260. Jazz Percussion. Cr. 1

Coreq: MUA 2820. Only open, by audition, to music majors in jazz studies. (F,W)

5280. Jazz Guitar. Cr. 1

Coreq: MUA 2820. Open only, by audition, to music majors in jazz studies. (F,W)

5290. Jazz Accordion. Cr. 1

Coreq: MUA 2820. Open only, by audition, to music majors in jazz studies. (F,W)

MUSIC THEORY (MUT)

1100. Elementary Music Theory. Cr. 2

No degree credit for music majors. Terminology and standard notation, including intervals, triads, scales, rhythm and correlated ear training. (T)

1140. Theory I. Cr. 3

Prereq: MUT 1100 or satisfactory equiv. by examination. Prior knowledge of scales, 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. (B:W)

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 sonorites 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. Survey of theorists from Rameau to the present. (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. Offered for undergraduate credit only. 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. Offered for undergraduate credit only. 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. Offered for undergraduate credit only. Arranging pieces with concentration on orchestrating large jazz ensembles. (F)

5600. Survey of Music Theory. Cr. 3

Open only to senior level and graduate students. General overview of the development of theoretical and formal structures. (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: James Thomas

Professors

N. Joseph Calarco, Robert T. Hazzard (Emeritus), Leonard Leone (Distinguished Professor Emeritus), David J. Magidson, Robert E. McGill, Nira Pullin, Anthony B. Schmitt, Thomas H. Schraeder, Russell E. Smith (Emeritus), James Thomas

Associate Professors

Larry Kaushansky, John Woodland

Assistant Professors

Addell Austin Anderson, Cynthia Blaise

Lecturers

Blair Anderson, Mary Copenhagen

Theatre Support Staff

Wendy Evans, Philip Fox II, Mary Leyendecker

Degree Programs

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 specializations in acting, scenery design, costume design, lighting design, and theatre management

***DOCTOR OF PHILOSOPHY** with a major in theatre

The primary aim of the Theatre Department is to assist students in developing pre-professional training in theatre arts. Undergraduate majors may prepare for careers in acting and design/technology. The Department sponsors a large number of student activities and practicum experiences including the Bonstelle Theatre, and Student Stage. Participation in these activities is available to all University students.

Bachelor of Fine Arts With a Major in Theatre

This major 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.

Matriculation: The B.F.A. core courses listed below must be taken in the freshman and sophomore years, as prerequisites to either the concentration in acting, or in design/technology. Consult with departmental B.F.A. advisors before program is begun, and for required sequences of course election.

DEGREE REQUIREMENTS: Candidates must complete a minimum of 120 credits including the General Education Requirements (see page 26), College degree requirements (see page 167), and 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 pages 15-45 and 167-171, respectively.

A minimum of sixty credits must be elected in theatre course work. It is recommended that the student complete the General Education Requirements as soon as possible. B.F.A. students are assigned a faculty adviser upon admission to the program.

CORE COURSES COMMON TO BOTH B.F.A. PROGRAMS

Structure and Analysis of Drama	THR 1020
Acting I	THR 1040
Technical Laboratory	THR 2080
Stagecraft	THR 2130
Principles of Makeup	THR 3050
Capstone Experience (taken in last 21 credits in program)	THR 4997
Introduction to Design	THR 5030
Play Direction I or Principles of Theatre Management *	THR 5050 or THR 3110
Development of Drama I** or Theatre History I**	THR 6120 or THR 5100
Black Dramatic Literature or Pioneers of Modern Theatre	THR 5220 or THR 5230
(WI) Writing intensive Course in Theatre	THR 5993

ACTING: B.F.A. REQUIREMENTS

Acting II	THR 1050
Acting III	THR 2030
Acting IV	THR 2040
Acting V	THR 3010
Acting VI	THR 3030
Stage Movement I	THR 2010
Stage Movement II	THR 2020
Stage Movement III	THR 3020
Stage Movement IV	THR 3040
WSU Touring Theatre (optional)	THR 3070
Voice Lab I	THR 2110
Voice Lab II	THR 2170
Voice Lab III	THR 3080
Voice Lab IV	THR 3090

DESIGN/TECHNOLOGY: B.F.A. REQUIREMENTS

Drawing I	ADR 1050
Theatre Costuming I	THR 5010
Stage Lighting	THR 5070
Stage Design	THR 5080

ELECTIVES: (choose 16 credits from the following (a maximum of 6 credits may be earned in courses outside the Theatre Department):

Theatre Costuming II	THR 5020
Advanced Stage Design	THR 5090
Introduction to Scene Painting	THR 5140
Advanced Scene Painting	THR 5150
Advanced Stage Lighting Design	THR 5300
Sound for the Theatre	THR 5310
Textiles I	AFA 2410
Fashion Design: Tailoring	AFA 5420
Fashion Design: Flat Pattern	AFA 5440
Fashion Design: Draping	AFA 5450
Drawing II	ADR 1060

* Senior standing only

** This course is an approved corequisite for THR 5993 (WI).

* For specific requirements, consult the Wayne State University Graduate Bulletin.

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

Structure and Analysis of the Drama	THR 102
Acting I	THR 1040
Acting II	THR 1050
Stagecraft	THR 2130
Theatre History I	THR 5100
Theatre History II	THR 5210

ELECTIVES

One of the following:

Stage Lighting	THR 5070
Theatre Costuming I	THR 5010
Introduction to Design for the Theatre	THR 5030

One of the following:

Acting III	THR 2030
Play Direction I I (Prereq: THR 5030)	THR 5050
Development of Drama I	THR 5120

Departmental Financial Aid

See the section on Scholarships and Financial Aid on page 169. Detailed information on all Department scholarships and awards is available in the department office.

The Blakely-Molson Scholarship Fund: Monetary award open to any senior in the theatre program.

Francis Dello 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.

Talent Scholarship: Awards of \$700 per academic year (fall and winter terms) renewable for four years based on participation in the theatre program; open to any high school senior admitted to Wayne State.

Lily Tomlin Endowment Fund: Monetary awards open to any undergraduate in the theatre program.

Leonard and Mary Zudick Theatre Endowed Scholarship Fund: Monetary awards open to any student in the theatre program.

UNDERGRADUATE COURSES (THR)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

1010. (VP) Introduction to the Theatre. Cr. 3
Historical, critical and cultural aspects of theatre and drama discussed relative to play attendance. (T)

1020. Structure and Analysis of the Drama. Cr. 3
Reading and structural analysis of plays. Selected nineteenth and twentieth century plays. (W)

1030. (VP) Black Theatre: An Introduction. Cr. 3
Origins, development, and current trends with production techniques and problems related to the special area of the drama. (T)

1040. Acting I. Cr. 3
An introduction to improvisation and the process of acting. (Y)

1050. Acting II. Cr. 3
Prereq: THR 1040. Continuation of THR 1040. (Y)

2010. Stage Movement I. Cr. 2
Material fee as indicated in *Schedule of Classes*. 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. (F)

2020. Stage Movement II. Cr. 2
Prereq: THR 2010. Material fee as indicated in *Schedule of Classes*. Required of B.F.A. acting majors. Recommended for all second year acting students. Continuation of THR 2010. Emphasis on character movement. (W)

- 2030. Acting III. Cr. 3**
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. (F)
- 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. (W)
- 2080. Technical Laboratory. Cr. 1-4 (Max. 8, B.F.A. technical students; max. 3, B.A. students)**
Supervised laboratory practice in all phases of technical theatre. (T)
- 2110. Voice Laboratory I. Cr. 2**
Introduction to vocal production. Emphasis on relaxation, breathing techniques, and the production of vocal sounds. (F)
- 2130. Stagecraft. Cr. 3**
Prereq: THR 1010 or 1030 recommended. Principles of scenic construction and painting. Types and utilization of stage scenery. Laboratory projects coordinated with University Theatre productions. (T)
- 2140. Production Laboratory. Cr. 1 (Max. 6)**
Participation in University theatre productions as actors, designers, technicians, publicist, assistant director, choreographer, or other approved capacity. (T)
- 2160. Technical Theatre Problems. Cr. 1 (Max. 6)**
Prereq: sophomore standing. Open only to B.F.A. technical theatre majors. Participation in theatre productions as stage manager or assistant stage manager. (T)
- 2170. Voice Lab II. Cr. 2**
Prereq: THR 2110. Continuation of vocal production work and an introduction to consonant sounds. (Y)
- 2180. Stage Management Laboratory. Cr. 1-4**
Prereq: consent of adviser. Participation in theatre productions as stage manager, assistant director, choreographer, or writer. (T)
- 2860. (MUA 2860) Opera Workshop. Cr. 1 (Max. 8)**
Prereq: consent of director. (I)
- 3010. Acting V. Cr. 3 (Max. 6)**
Prereq: THR 2040. Required of all B.F.A. acting majors. May be repeated as elective with consent of instructor. Theories and methods of acting verse drama. (F)
- 3020. Stage Movement III. Cr. 2**
Prereq: THR 2020. Material fee as indicated in *Schedule of Classes*. Required of B.F.A. acting majors. Styles of stage movement: Commedia, Moliere, Restoration. Emphasis on period deportment, manners, and dance forms. (F)
- 3030. Acting VI. Cr. 3 (Max. 6)**
Prereq: THR 3010. Required of all B.F.A. acting majors. May be repeated as elective with consent of instructor. Acting classic and modern theatrical styles of comedy. Emphasis on American musical theatre. (W)
- 3040. Stage Movement IV. Cr. 2**
Prereq: THR 3020. Material fee as indicated in *Schedule of Classes*. Required of B.F.A. acting majors. Styles of stage movement: Shakespeare. Emphasis on Renaissance deportment, manners, and dance forms. (W)
- 3050. Principles of Makeup. Cr. 2**
Fundamentals of theatre makeup. Laboratory projects coordinated with University Theatre productions. (T)
- 3070. WSU Touring Theatre. Cr. 1-2(Max. 4)**
Admission by audition only. (T)
- 3080. Voice Lab III. Cr. 2**
Prereq: THR 2170. Continuation of vocal and articulation work and an introduction to rhythm and tempo in the speaking voice. (W)
- 3090. Voice Lab IV. Cr. 2**
Prereq: THR 3080. Continuation of vocal articulation and vocal music techniques; harmonizing them in performance. (Y)
- 3100. Blacks and Hispanics in Theatre, Film and Television. Cr. 3**
Critical study of the image of blacks and Hispanics in popular film, television, and drama; screening and analysis of representative films to illustrate significant trends. (Y)
- 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)
- 3120. Black Musical Theatre. Cr. 3**
Origins, development, and current trends concerning black musical theatre. (F)
- 3990. Directed Study. Cr. 1-4(Max. 4)**
Prereq: theatre major with 16 credits in the Department. (T)
- 4010. Acting VII. Cr. 3**
Prereq: THR 3030. Required of all B.F.A. acting majors. Studies and practice in audition techniques; the particular and individual acting problems of the class. (F)
- 4020. Stage Movement V. Cr. 2**
Prereq: THR 3040. Material fee as indicated in *Schedule of Classes*. Introduction to musical comedy theatre dance. Emphasis on performance techniques and styles of musical comedy theatre dance: tap and jazz. (F)
- 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. Material fee as indicated in *Schedule of Classes*. Introduction to costume design and construction. Laboratory projects coordinated with University Theatre productions. (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)
- 5030. Introduction to Design for the Theatre. Cr. 3**
Prereq: THR 2130 recommended. Methods and materials laboratory course. Practical exercises. Prerequisite to stage, costume or lighting design; techniques of costume, lighting design; rendering, drafting, perspective, color, and design. (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)
- 5060. Play Direction II. Cr. 3**
Prereq: THR 5050. Continuation of THR 5050. Lectures on the history of play direction. Students required to direct a one-act play on the University Student Stage. (W)
- 5070. 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)
- 5080. Stage Design. Cr. 3(Max. 6)**
Prereq: THR 5030. The scenic designer's multiple analysis of a play. Practice in evolving a technique of scenic design by study of selected plays with execution of sketches and working drawings. (I)

5090. Advanced Stage Design. Cr. 3(Max. 6)

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. Material fee as indicated in *Schedule of Classes*. 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. (F)

5120. Development of the Drama I: Greek to Eighteenth Century. Cr. 3

Plays from the Greek through the eighteenth century, including Shakespeare; relation of drama to an era and its theatre. (F)

5130. (ENG 5890) Writing for Theatre. 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. (I)

5140. Introduction to Scene Painting. Cr. 3

Prereq: THR 2130. Material fee as indicated in *Schedule of Classes*. 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. (I)

5150. Advanced Scene Painting. Cr. 3

Prereq: THR 5140. Material fee as indicated in *Schedule of Classes*. Laboratory and demonstration course for the design or technical theatre student. Materials, techniques, styles of scene painting. (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. Material fee as indicated in *Schedule of Classes*. Continuation of THR 5100. From English and continental eighteenth century to contemporary European and American theatres. (W)

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 I. Cr. 3

Introduction to the craft of writing for the stage. Students required to write a full-length dramatic script. (B)

5300. Advanced Stage Lighting Design. Cr. 3

Prereq: THR 5070; graduate standing or consent of instructor. Material fee as indicated in *Schedule of Classes*. Examination of situations and responsibilities encountered in professional lighting design. Project work based on large-scale, complex requirements. (I)

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*. (T)

5993. (WI) Writing Intensive Course in Theatre. Cr. 0

Prereq: junior standing, consent of instructor, satisfactory completion of English Proficiency Examination; coreq: THR 5100, 5120, or 6120.

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)

6010. Studio I. Cr. 1-3

Prereq: graduate standing. Open only to members of 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)

6040. Children's Theatre Play Production. Cr. 3

Prereq: THR 6030 recommended. Theory and practice of organization, selection, direction, production of plays for children's audiences in schools, churches and communities. (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 material 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. Material fee as indicated in *Schedule of Classes*. Continuation of basic principles applied in THR 3050; emphasis on new makeup materials; experimentation with prosthesis and design for problem makeup. (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 lighting 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. Continuing 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. Continuation of THR 6070. 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 modern 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 the 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)

LAW SCHOOL

DEAN: James K. Robinson

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 sixty-five 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. Only about one-third of the law schools in the United States have been selected for Coif chapters. Membership is limited to the top ten percent of each graduating class, elected by the faculty. In establishing its Chapter of Order of the Coif, Wayne State University Law School has joined other law schools in promoting exceptional accomplishment in legal studies.

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 the annex building. 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-third 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 NO TAG.

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, Property, Torts, and Legal Writing and Research, for a total of fourteen credits. In the winter term, students complete the second half of these courses as well as Criminal Law for a total of sixteen 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 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 five 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 non-graded 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 honor 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.
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.

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 IPLI 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 IPLI offers an exceptional, rich curriculum for law students and lawyers, comprised of courses and seminars in intellectual property law in patent, copyright, trademark, trade secret, computer and related technology, communications and media, entertainment, technology transfer, and trade regulation and the arts. 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 newly-inaugurated 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 STUDIES

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., History; J.D./M.A., Political Science; 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, Room 195, Law Library Annex Building, 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 honor point average; (2) any special features of the applicant's academic record which may have had an impact on his or her honor 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 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.

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.

Application Procedure

There is a great deal of competition for the entering class of the Law School. The Law School received more than 1,100 applications for the 1996-97 academic year, and fewer than one-third of the applicants were offered admission. The median undergraduate honor point average of the 1996-97 entering class was 3.27 and the median LSAT score was 155. 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 and the attached cards.

(2) The non-refundable application fee, submitted with the application, of \$20 for U.S. citizens or permanent residents, and \$30 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 circumstances, 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 the Admissions Office by the recommender on the form provided in the application packet. Only

one letter of recommendation is required, but the Admissions Office will review up to two letters.

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.

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.

Guest Student for 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.

Guest Student for 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 . . . 195 Law School Annex; 577-3937
Financial Aid 191 Law School Annex; 577-5142
Records and Registration, Law School . 311 Law Library; 577-3978
Supportive Services 169 Law School Annex; 577-3993

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: Sondra O'Neale

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, 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	History
American Studies	Italian
Anthropology	Linguistics
Anthropology and Sociology	Near Eastern Languages
Art History	Near Eastern Studies
Classics	Philosophy
Economics	Political Science
English	Russian
Film Studies	Slavic Languages
French	Sociology
Geography	Spanish
German	

BACHELOR OF ARTS HONORS with majors in:

Anthropology Honors	Near Eastern Studies Honors
Classics Honors	Philosophy Honors
Economics Honors	Political Science Honors
English Honors	Romance Languages and Literatures Honors
Geography Honors	Russian Honors
German Honors	Slavic Honors
History Honors	Sociology Honors
Near Eastern Languages 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	History
Art History	Italian
Classics	Linguistics
Comparative Literature	Near Eastern Languages
East European Studies	Philosophy
Economics	Political Science
English	Sociology
French	Spanish
German	

**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	Modern Languages
Economics	Philosophy
English	Political Science
History	Sociology

* For specific requirements, consult the Wayne State University Graduate Bulletin.

COLLEGE DIRECTORY

Dean:

Sondra A. O'Neale 2226 Faculty/Administration Bldg.; 577-2522

Associate Dean:

Li Way Lee 2226 Faculty/Administration Bldg.; 577-2517

Donald Spinelli ... 2226 Faculty/Administration Bldg.; 577-8895

Service Areas

Graduate Office 2155 Faculty/Administration Bldg.; 577-2690

Major/Curriculum Office 2155 Faculty/Administration Bldg.; 577-3117

College Grade Change Coordinator
2155 Faculty/Administration Bldg.; 577-8001

Undergraduate Degree Certification 577-3117

Educational Adjustment Committee
2155 Faculty/Administration Bldg.; 577-8001

Departmental Offices/Programs

African-American Film Institute 51 W. Warren; 577-2321

Africana Studies Room 4011, 51 W. Warren; 577-2321

American Studies Room 2214, 51 W. Warren; 577-3067

Anthropology 137 Manoogian; 577-2935

Canadian Studies Program 225 State Hall; 577-0541

Classics, Greek, and Latin 431 Manoogian; 577-3032

Comparative Literature Program Room 1200, 51 W. Warren;

..... 577-2452

Composition Program 51 W. Warren; 577-2453

Criminal Justice 2305 Faculty/Administration Bldg.; 577-2705

Economics 2074 Faculty/Administration Bldg.; 577-3345

English Room 1200, 51 W. Warren; 577-2450

English Language Institute 351 Manoogian; 577-2729

Film Studies Program Room 1232, 51 W. Warren; 577-2943

Foreign Language Laboratory 385 Manoogian; 577-3022

German and Slavic Studies 443 Manoogian; 577-3024

History 3094 Faculty/Administration Bldg.; 577-2525

Honors Program 2311 Faculty/Administration Bldg.; 577-3050

Humanities Program Room 4228, 51 W. Warren; 577-3035

International Studies Program 355 Manoogian; 577-8072

Junior Year in Germany Program 471 Manoogian; 577-4605

Legal Studies Program 375 Law School; 577-3947

Linguistics Program Room 4010, 51 W. Warren; 577-8642

Near Eastern and Asian Studies 437 Manoogian; 577-3015

P.A.C.T. 71 E. Ferry; 577-3519

Philosophy Room 353, 51 W. Warren; 577-2474

Political Science 2040 Faculty/Administration Bldg.; 577-2630

Public Affairs Program 2040 Faculty/Administration Bldg.; 577-2630

Romance Languages & Literatures 487 Manoogian; 577-3002

Sociology 2228 Faculty/Administration Bldg.; 577-2930

Women's Studies Program . . . Room 2242, 51 W. Warren; 577-6331

Mailing address for all offices:

(Department Name), College of Liberal Arts, Wayne State University,
Detroit, Michigan 48202

* For specific requirements, consult 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.

Honor Point Average: All students are required to maintain an over-all honor point average of 'C' (2.0) for all degree work elected. See 'Honor Point Average,' page 44.

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 26) 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 26).

Group Requirements

Group Requirements for students in the College of Liberal Arts overlap considerably with those of the University General Education Program (see page 28). 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 Cultural Studies (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 34. 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 University Advising 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 AGS 3420 and GSS 1510. One course is required.

FOREIGN CULTURE (FC) 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.

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 GIS 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; 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 GUH 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, 1050, 1070, 1310; 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 GST 2020 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 AGS 3480 and GSS 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 GUH 2730. One course is required.

CULTURAL STUDIES

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; HUM 3010; ITA 2710, 2720; N E 2000, 2010; RUS 3510.

Note: The Junior Year in Germany experience also meets the Cultural Studies requirement.

THE UNIVERSITY AND ITS LIBRARIES as specified in the University General Education Program (see page 30).

UNIVERSITY REQUIREMENT IN AMERICAN GOVERNMENT for students enrolled prior to Fall Term 1987: See General University Information, page 30.

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 pages 222–223.

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, 2 East, Helen Newberry Joy Student Services Center. A 2.00 cumulative h.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 honor 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 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.

Curricula and Co-Majors

(Taken in conjunction with another major which leads to a Bachelor's Degree)

International Studies
Peace and Conflict 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 90 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.

— *Weekend College (College of Lifelong Learning):* No more than sixteen credits, which may include six credits of Independent Study, may be transferred from Weekend College.

— *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 an honor 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 REGULATIONS

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:

Areas	maximum degree credit
Dance (approved courses)	16
Health	8
Applied Music (including the limitation stated in the paragraph below)	16
Physical Education (activity)	4

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
MUA 2810	University Symphony Orchestra
MUA 2820	Jazz Lab Band
MUA 2830	Men's Glee Club
MUA 2840	Choral Union
MUA 2850	Concert Chorale
MUA 2870	Women's Chorale
MUA 2880	Chamber Music and Special Ensembles
SPR 2670	Radio-Television-Film Laboratory
SPC 2240	Forensics Practicum

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.

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) honor 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 honor point average of 3.0 or above. For a description of the Honors Program and a list of classes, see page 270.

'A GRADE'—Accelerated Graduate Enrollment

Some departments of the College permit academically superior majors to petition for admission into the College's 'A GRADE' program. 'A GRADE' 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 'A GRADE' programs may expect to complete the bachelor's and master's degrees in five years of full-time study.

An 'A GRADE' 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 honor point average at the 'Cum Laude' level (approximately 3.4) and not less than a 3.6 honor 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 'A GRADE' courses to be included in subsequent semesters.

For more details about the 'A GRADE' program, contact the chairperson of the major department, or the Graduate Office of the College of Liberal Arts (577-2690).

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 honor 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 honor points used to identify the lower limits for each designation will be based upon the honor 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 honor point average for students registered for full-time programs of twelve credits or more which contribute to the honor point base; a 4.0 honor 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 44.)

Academic Probation

Low Honor 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 Honor 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 h.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, 2 East, Helen Newberry Joy Student Services Center 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 21), 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 h.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 h.p.a. Application deadline is April 30; contact the Office of Scholarships and Financial Aid.

UNDERGRADUATE CURRICULA

credits

Students who are uncertain of procedures in curricular planning should confer with an adviser. In all curricula, majors must be declared by the beginning of the 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 elect 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

	credits
American Society and Institutions	0-3
Foreign Language	4-8
Humanities	3-7
Natural Science	3-7
Social Science	3-7
The University and Its Libraries (UGE 100)	1
Competencies/Electives	0-6

Second Year

American Society and Institutions	0-3
Foreign Language	4-8
Historical Studies	0-4
Humanities	3-7
Natural Science	3-7
Social Science	3-7
Competencies/Electives	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	12-16
Chemistry: Inorganic, including qualitative analysis, & lab	9-11
Chemistry: Organic with laboratory	8-10
English	8-12
Physics with laboratory	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 pages 99 and 223.

Pre-Engineering

—See pages 124 - 129.

Pre-Law

—See page 212.

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 honor 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 1010, 1020; four courses in English; History 1050, 2040, 2050, 3100, 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.

credits

Biology or Zoology with laboratory	12-16
Inorganic Chemistry (including qualitative analysis) & lab	9-11
Organic Chemistry with laboratory	8-10
Physics with laboratory	8-10
English	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 364.

—Cytotechnology Concentration

—See page 365.

Pre-Mortuary Science

—See page 369.

Pre-Nursing

—See page 333.

Pre-Occupational Therapy

—See page 374.

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.

	<i>credits</i>
Biology, including microbiology, with laboratory	12-16
Inorganic chemistry with laboratory	8-10
Physics with laboratory	8-10
Mathematics:	
Algebra and Trigonometry	3-4
Calculus	6-8
English	6-8
Psychology	3
Statistics	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 371.

Pre-Pharmacy

—See page 347.

Pre-Physical Therapy

—See page 378.

Pre-Radiation Therapy Technology

—See page 382.

Pre-Social Work

—See page 450.

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.

	<i>credits</i>
BIO 1050—(LS) An Introduction to Life	4
BIO 1510—(LS) Basic Life Mechanisms	4
CHM 1050 or CHM 1070	
—(PS) Introductory Principles of Chemistry	6
—(PS) Principles of Chemistry I	4
CHM 1080—Principles of Chemistry II	5
CHM 2240—Organic Chemistry I	4
CHM 2260—Organic Chemistry II	4
CHM 2270—Organic Chemistry Laboratory	2
CHM 5600 or CHM 6620	
—Survey of Biochemistry	3
—Biochemistry I	3
MAT 1800—Elementary Functions	4
PHY 2130 or PHY 2170	
—(PS) General Physics	4
—(PS) General Physics	4-5
PHY 2140 or PHY 2180	
—General Physics	4
—General Physics	4-5
English (ENG)	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 honor 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, Mathaei Building.

Students wishing to major in *Music Education* should consult an adviser in Room 105, Schaver Music Building.

Secondary Teaching

—See page 103.

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 general education requirements:

University General Education Requirements: see pages 26 – 36.

College of Education general requirements: PSY 1010, HEA 2310 (or equivalent).

English Speech Group: four courses, including ENG 1020, a 2000-level English course, SPB 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 28.

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 489, Education Building.

Career and Technical Education

—See page 108.

Elementary Teaching

—See page 100.

Pre-elementary majors should include the following requirements in their first two years' work:

University General Education Requirements: see pages 26 – 36.

College of Education general requirements: PSY 1010, HEA 2310 (or equivalent), and MAT 1110 or MAE 5050.

English/Speech Group: ENG 1020, intermediate composition and SPB 1010.

Social Studies Group: four courses: P S 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 489, Education Building.

Special Education

—See page 106.

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 pages 26 – 36.

College of Education general requirements: PSY 1010, HEA 2330, MAT 1110, or MAE 5050.

Special Education requirements: BIO 1050 and 2870 and SED 6000 with grades of 'C' or better are required of all students prior to admission to the College of Education.

SED 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 SPB 1010.

A Planned (non-teaching) minor must be completed prior to admission to Education. Required courses include: ANT 2100, BIO 2870, P S 1010, PSY 2300, SOC 2000, ELE 3200, and SED 6000.

Students can obtain major/minor worksheets for Special Education in Room 489, Education Building.

STUDY ABROAD

AFRICAN TRAVEL-STUDY PROGRAMS Ghana and Senegal

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 Senegal. 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. This institute 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 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.
- 3) To expose African-American students to the African roots of African-American identity, culture and tradition.
- 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.

WAYNE AT GORDES Travel Study in France

Program Office: Department of Romance Languages; 577-3002
Coordinator: Charles J. Stivale

Wayne at Gordes is a six-week program of immersion in the French language and civilization at the Renaissance village of Gordes in the Vaucluse. Through encounters with living Provence, the program aims to improve the student's fluency in spoken and written French, and to give him/her first-hand experience of French civilization.

This program is formally structured through eight credits of enrollment in Wayne State University French classes: *Advanced French Composition (FRE 5310)* and *French Civilization Sur Le Motif (FRE 6460)*; an additional four credits may be applicable as *Directed Study (FRE 5990)*. Prerequisite to these classes students are expected to have completed FRE 2100 or its equivalent. All courses are taught entirely in French and students are expected to speak only French during the entire period of the program. Classes are held six days a week. *Sur le Motif* experiences are held one day and one morning per week; in the past, the Wayne group has visited Marseille, Avignon, St. Remy of Provence, and Aix-en-Provence. The group will also attend festival productions in Provence.

For additional information students are invited to contact the French Area Convener at 577-3002.

JUNIOR YEAR IN GERMANY Munich and Freiburg

Office: 471/473 Manoogian Hall; 577-4605; Fax: 577-3266
E-mail junyear@cms.cc.wayne.edu
<http://www.langlab.wayne.edu/JuniorYear/JrYrHome.html>
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 either the University of Munich or the University of Freiburg. Both locations provide attractive settings in which to experience the cultural, academic, and social life of Germany. These programs have a national reputation for excellence, and enroll 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 world-prominent 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 collections in the world and making this location one of special interest for study in the arts.

Life in Freiburg: The city of Freiburg im Breisgau, situated at the foot of the Black Forest, is surrounded by some of Germany's most beautiful scenery. Founded in 1120, the city is famous for its Gothic cathedral, as well as its picturesque medieval architecture. The scenic "old-world" charm and relaxed, intimate atmosphere of Freiburg should not, however, detract from the fact that it is also a modern city, which has a large population of young people attending the well-known and prestigious university. Students find a comfortable and rewarding lifestyle very quickly in Freiburg and are encouraged to take advantage of the rich diversity of cultural activities in and around the city.

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 h.p.a., or better.

ORIENTATION: Both programs begin 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 universities in the city centers, 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 or Freiburg 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 brochures 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 Berlin 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

political organizations, such as the Amerika Haus in Munich. Students in both programs 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 McNamee

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.

CRITERIA of SELECTION:

- 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

Chairperson: Melba J. Boyd

Professors

Eboe Hutchful, Michael T. Martin

Associate Professors

Melba J. Boyd, Perry Mars

Lecturers

Ella Davis, Todd Duncan

Adjunct Professors

Michael Goldfield, Kathryn Lindberg, Guerin Montibus, Alida Quick

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 with a 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 26) and the College of Liberal Arts Group Requirements (see page 217), 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 pages 15-45 and 217-221, respectively.

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 2210 (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) (five 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. Three courses from: AFS 2010, AFS 3050, AFS (FLM) 3200, AFS (GIS) 5130, AFS 5350.
2. Three courses from: AFS (SOC) 2600, AFS 3180, AFS 3250, AFS 3420 (P S 3820), AFS (SPR) 4240, AFS (W S) 5110, AFS (W S) 5300, AFS 5310, AFS (FLM) 5800, AFS 5860.
3. Two cognates from: ENG (AFS) 2390, AFS 5480; MUH 3360, 6310; SPC (AFS) 5040; A H 3800, ANT (AFS) 5260.

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. Three courses from: HIS (AFS) 3140 or HIS (AFS) 3150; AFS 3180, AFS 3250, AFS 3420 (P S 3820), AFS 5480, AFS 5600, AFS 6600 (ULM 7260).
2. Three courses from: AFS 2500, AFS 2600, AFS 3860, AFS (W S) 5110, AFS (GIS) 5130, AFS (HIS) 5320, AFS (SOC) 5580, AFS (PSY) 5700, AFS 5860.
3. Two cognates from: ANT 3110, 3520, 6230; GEG 6150, 6350; GIS (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, 3180, 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.

Coleman A. Young Scholarship Endowment Fund

Only Africana Studies majors are eligible for scholarship awards under this endowed fund. Majors eligible for awards must maintain a minimum h.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.

Summer Study Abroad

Supervised by the College of Lifelong Learning, 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

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

Africana Studies (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: Literature 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 historical foundations to its contemporary institutional forms. (B)

3050. Cultural Perspectives in African American Literature. Cr. 3

African American literary aesthetic as grounded in its musical origins and as reflected in various philosophical influences. (F,W)

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)

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 (FLM 3200). 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

Political, economic, and cultural life of the Caribbean. Relationship of 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. (GIS 3610) (FC) Interdisciplinary Perspectives in Foreign Culture: The Africans. Cr. 4

Prereq: upper division standing. Humanistic aspects, history, socio-cultural institutions of African cultures; theory and methods, comparativist perspectives. (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. (SPR 4240). Cr. 4

Historical overview of African Americans in radio and television with emphasis on: news and documentary; entertainment and advertising; and ownership, employment and access. (Y)

4780. (P S 4780) Contemporary African Politics. Cr. 4

Nature of African politics; impact of African politics on international relations. (B)

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. (SPC 5040) The Rhetoric of Racism. (S E 5370). Cr. 3

Issues and topics related to the study of communication behaviors and patterns in the black community. Topics focus on specific cultural, rhetorical and sociological aspects of like in African American communities. (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. (GIS 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. (GIS 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)

5300. African American Women's Literature. (W S 5300). Cr. 3
Prereq: upper division or graduate standing. History of African American women writers from the colonial period to the present. Emphasis on the aesthetic, cultural, and political dimensions of African American literary texts and the problematics of an African American 'canon'. (Y)

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)

5350. African American Religious History and Practice. (ANT 5350)(GIS 5350). Cr. 4
Prereq: upper division or graduate standing. Historical role and function of religion among African Americans from slavery to the current period. Analysis of religion as the mainstay of African American survival and its contribution to African American identity. (B)

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)

5600. The African American Community and Public Policy. Cr. 4
Core requirement for Africana Studies majors. Public policy formation, issues and implementation as determinants of development in the

Black community: education, equal opportunity, social institutions, law and criminal justice. (F)

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)

5800. Third World Cinema. (FLM 5800). Cr. 4
Prereq: upper division or graduate standing. Study of the cinematic traditions and film practices in the Third World with emphasis on anticolonial and post colonial political cinema. (B)

5860. Education and African Americans. Cr. 4
Survey of dominant educational trends which have impacted and been influenced by the African American experience in the United States. (B)

5991. Field Work in the Black Community. Cr. 3-8
Prereq: written consent of instructor. Open only to majors. Field placement in community-based, human services, and civic organizations and governmental agencies. (Y)

6100. (ULM 6100) Class, Race, and Politics in America. (P S 6050)(HIS 5110)(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)

6430. Economics of Inequality. (ECO 7430). Cr. 4
Prereq: upper division or graduate standing. Not for Economics Ph.D. field credit. Theoretical and empirical analysis of sources of income inequality in the U.S. economy. (Y)

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. (SOC 7350)(U P 7260)(P S 7260)(ANT 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 (SWA)

1010. Elementary Swahili I. Cr. 4
Material fee as indicated in *Schedule of Classes*. Training in pronunciation, aural comprehension, oral and written expression. Supervised laboratory period for part of class preparation. (F)

1020. Elementary Swahili II. Cr. 4
Prereq: SWA 1010 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Continuation of SWA 1010. (W)

2010. (FC) Intermediate Swahili. Cr. 4
Prereq: SWA 1020 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Conversational Swahili and grammar review; reading of Swahili literature. Continuation of SWA 1020. (S)

AMERICAN STUDIES

Office: 51 West Warren, Room 2001; 577-2450

Director: Jerry Herron

Advisory Committee

Anthropology: Guerin Montilus

Art and Art History: Jane Blocker, Marian Jackson;

Chicano-Boricua Studies: Jose Cuello;

English: Corey Creekmur, Todd Duncan, Henry Golemba, William Harris, Jerry Herron, Alison Landsberg, Janet Langlois, Michael Liebler, Kathryn Lindberg, Ross J. Pudaloff, George Tysh, Barrett Watten;

Geography and Urban Planning: Susan Turner;

German and Slavic Studies: Alfred Cobbs, Donald Haase;

History: Marc Kraman, Alan Raucher, Stanley Shapiro, Sandra VanBurklee;

Lifelong Learning: Francis Shor;

Philosophy: William D. Stine;

Political Science: Philip R. Abbott, Otto Feinstein;

Sociology: Phillip Belfy

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 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 26) and the College of Liberal Arts Group Requirements (see page 217), 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 pages 15-45 and 217-221, respectively.

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, distributed as follows:

American Studies: at least six credits, including A S 2010 and 5010 or A S 5990.

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.

UNDERGRADUATE COURSES (A S)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

2010. Introduction to American Culture. Cr. 3 or 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)

5010. Topics in American Studies. Cr. 3 or 4 (Max. 12)

On 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 or 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: Marietta L. Baba

Professors

Barbara C. Aswad, Marietta L. Baba, James B. Christensen (Emeritus), John Friedl, Bernice A. Kaplan, Guerin Montilus, Bernard Ortiz de Montellano, Mark L. Weiss

Associate Professor

Gordon L. Grosscup (Emeritus), Andrea Sankar

Assistant Professors

Tamara L. Bray, Linda Hogle, Frances Trix

Lecturer

Allan Bauteau

Adjunct Professors

Morris Goodman, Gabriel W. Lasker (Emeritus), Madeleine Leininger (Emerita), Eugene Perrin

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 specializations in cultural anthropology, archaeology, ethnohistory, medical anthropology, physical anthropology, historical archaeology, urban anthropology, industrial/business anthropology, applied anthropology and development 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 a public service profession such as librarianship, social work, nursing, medicine, education, or law; (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; (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.

Bachelor of Arts Degrees

The Department offers the Bachelor of Arts degree with a major in anthropology or a major in anthropology and sociology, for both of which the following admission and degree requirements apply.

Admission requirements for these degree programs 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 26) and the College of Liberal Arts Group Requirements (see page 217), 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 pages 15-45 and 217-221, respectively.

— With a Major in Anthropology

Major Requirements: Students majoring in anthropology are required to elect a minimum of thirty credits in anthropology, including Anthropology 2100, 2110, 5200, 5210 (or an acceptable alternative), 5270, 5310 or 5320, 5996, and 6300. A minimum of fifteen credits must be taken in residence. The capstone course 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 honor point average of at least 3.3 and a similar h.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 h.p.a. of 3.3 or above;
3. Anthropology h.p.a. of 3.3 or above;
4. A minimum of three and a maximum of six thesis credits in anthropology (ANT 4999);

* For specific requirements, consult the Wayne State University Graduate Bulletin.

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 fifteen 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 page 219.

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, bio-cultural or cross-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 to four credits) and ANT 2110 (three credits), as well as one of the following: ANT 5200, 5270, 5310 or 5320 (all offered for three credits). Students must take an additional nine credits in anthropology 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.

For more details about the AGRADE Program, contact the Chairperson of the Department of Anthropology (577-2935), or the Graduate Officer of the College of Liberal Arts.

UNDERGRADUATE COURSES (ANT)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 - x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

2100. (SS) Introduction to Anthropology. Cr. 3-4
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
Role of hereditary and environmental factors, human genetics, meaning of 'race' and racial classifications, fossil records, non-human primate behavior and evolution. (T)

3100. Cultures of the World. Cr. 3-4
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. (Y)

3150. (FC) Anthropology of Business. Cr. 3
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

Early civilizations that developed in different parts of the world, in comparative perspective. Hypotheses to explain rise and fall of civilizations examined in context of ancient cultures. Introduction to basics of archaeology. How archaeological facts are formed; meaning of 'civilization'; how understanding of the past both derives from and helps shape our understanding of the present. Course is directed at the non-major. (T)

3210. African Prehistory. Cr. 3

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 and settled life. Emphasis on evidence for human origins, evolution and adaptation. (I)

3250. Dealing With the Dead: The Anthropology of Mortuary Practices. Cr. 3

Cross-cultural perspective of mortuary practices. Survey and comparison of various cultures' beliefs regarding dying, death, and disposal of the dead. (I)

3520. (FC) Stability and Change in Contemporary Africa. Cr. 3
Cultural and social change in Subsaharan Africa; impact of European and North African culture on the societies of the subcontinent. (T)

3530. Native Americans. Cr. 3

Survey of Native American and Inuit cultures north of Mexico; adjustment to environment; history of the several tribes. (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)

3990. Directed Study. Cr. 2-6(Max. 6)

Prereq: 16 credits in anthropology with grades of A or B; consent of instructor. (T)

3991. 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 lower division coursework at the University of Salford, England, as part of WSU-Salford Exchange Program. (Y)

4990. Honors Program in Anthropology. Cr. 2-6(Max. 20)

Prereq: junior standing; 3.3 h.p.a.; 3.3 h.p.a. in department; 18 credits in anthropology; consent of chairperson or dean. (T)

4998. Honors Research Thesis. Cr. 2-6

Prereq: admission to college and department honors programs; 3.3 h.p.a.; 3.3 h.p.a. in anthropology. Independent study under the direction of the honors adviser. Research will lead to the completion of an honors thesis. (T)

4999. Honors 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 problem to be completed under the direction of a faculty member whose field or expertise is within the topic area. The thesis will be judged by the adviser and a second reader. (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)

5180. Introduction to Forensic Science. Cr. 3

Prereq: CRJ 1010 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. Social Anthropology. Cr. 3

Prereq: SOC 2010 or ANT 2100. Types of social organization and cultural heritage; ancient, primitive and complex cultures analyzed, compared, contrasted. (Y)

5210. Methods in Anthropology. Cr. 3

Prereq: ANT 2100 or consent of instructor. A survey of research techniques in anthropology. (Y)

5240. Cross Cultural Study of Gender. Cr. 3

Prereq: ANT 2100 or consent of instructor. Evolutionary and cultural bases of female 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)(GIS 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. (I)

5270. Introduction to Archaeology. Cr. 3

ANT 2100 or 3200. For advanced anthropology 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. (Y)

5280. Field Work in Archaeology of the New World. Cr. 5(Max. 10)

Prereq: consent of instructor; ANT 5270 recommended. Material fee as indicated in *Schedule of Classes*. Introduction to reconnaissance and excavation of sites; archaeological artifact analysis. (Y)

5310. Language and Culture. (LIN 5310). Cr. 3

Prereq: ANT 2100 or 5200 or SOC 2010 or consent of instructor. Introduction to the structure of language and to the ways that humans use language in the construction of human worlds. Diversity of the world's languages and universal properties of language; theories of language change. (Y)

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 this understanding of language has evolved: classic works in linguistic anthropology and contemporary studies in the field are read; research in language in societies. (Y)

5350. (AFS 5350) African American Religious History and Practice. (GIS 5350). Cr. 4

Prereq: upper division or graduate standing. Historical role and function of religion among African Americans from slavery to the current period. Analysis of religion as the mainstay of African American survival and its contribution to African American identity. (B)

5370. 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)

5400. Anthropology of Health and Illness. Cr. 3

Prereq: ANT 2100 or consent of instructor. An anthropological perspective on the study of health and illness. Folk medical beliefs and

practices, cultural patterns for coping with illness, and organization of health institutions cross-culturally. (Y)

5410. Anthropology of Age. Cr. 3

Prereq: ANT 2100 or consent of instructor. Old age examined from a cultural perspective; social and political factors; cross-cultural consideration of values which affect the experience of old age and the status of the elderly. Role of ethnicity and minority status in aging. (Y)

5420. Community Health Ethnography. Cr. 3

Prereq: ANT 2100. Fieldwork while serving as volunteer in health service agency. Medical and urban anthropology; field journal required. (B)

5510. Precolombian Mesoamerican Cultures. (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)

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. (Y)

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 5960, taught by full-time faculty member. 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. Within first three weeks of enrollment in corequisite course, student must notify instructor of enrollment in ANT 5930. (T)

5996. Capstone Seminar in Anthropology. Cr. 3

Prereq: upper division standing or graduate standing. Current analysis of theoretical issues in each of the four fields of 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)

6170. Political Anthropology. Cr. 3

Prereq: ANT 2100 or 5200 or SOC 2010 or consent of instructor. Comparative political systems of traditional societies. Government, the state, warfare, law, and social control. Theoretical approaches with analysis of representative societies. (I)

6230. Cultures of Sub-Saharan Africa. Cr. 3

Prereq: ANT 2100 or SOC 2010 or consent of instructor. Sub-Saharan 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 interrelationships, regional variation in population, settlement, race contact, acculturation, migration, social institutions. Topics to be announced in *Schedule of Classes*. (I)

6300. Frameworks and Debates in Anthropology 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. Frameworks and Debates in Anthropology II. Cr. 3

Prereq: ANT 6300. Required for first year graduate 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)

6390. Contemporary Theory in Anthropology. Cr. 3

Prereq: ANT 6380 or 24 credits in anthropology or consent of instructor. Analytical framework in use and developments in theory since 1940; the comparative method in the social sciences. Contemporary anthropological problems. (I)

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)

6500. North American Prehistory. Cr. 3

Prereq: ANT 2100 or consent of instructor; 5270 recommended. Prehistory of North America north of Mexico from the late Pleistocene to Euro–American contact. (I)

6510. The Inca and their Ancestors. Cr. 3

Prereq: ANT 2100, 3200, or consent of instructor. Introduction to precolombian civilizations of South America. Archaeological and ethnohistorical data on ancient cultures; foundations of Inca civilization; major cultures from different regions and periods. (B)

6550. Practicum in Archaeology. Cr. 2 (Max. 8)

Prereq: ANT 5270 or 5280, or consent of instructor. Selected topics; emphasis on application of theory, practice, and research. Topics to be announced in *Schedule of Classes*. (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. Selected topics in medical anthropology with relevance to theory, practice, and research. (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. (I)

6992. Field Practicum in Business/Industrial Anthropology. Cr. 2–8

Prereq: ANT 7200 or consent of instructor. Students gain firsthand experience in conceptualizing, conducting, and/or implementing applied research in business/industrial organizations. (I)

ART HISTORY

Office: 150 Art Building, 450 Reuther Mall; 577-2980

Chairperson: Marion E. Jackson

Associate Chairperson: Carolyn J. Hooper

Slide Collection Curator: Terry Kirby

Professors

Bernard M. Goldman (Emeritus), Joseph Gutmann (Emeritus), Horst Uhr

Associate Professors

Marion E. Jackson, Brian Madigan

Assistant Professor

Nancy Locke

W. Hawkins Ferry Endowed Chair in Twentieth Century Art History and Criticism

Jane Blocker

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 refract 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 pages 217-221).

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 172.

Students who elect to earn their degrees or certificates in the College of Liberal Arts should consult the Advisor in Art History, Max Jacob House, 451 Reuther Mall (577-2980), for clarification and further information.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

CANADIAN STUDIES

Office: 225 State Hall; 577-0541

Director and Adviser: Bryan Thompson

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 Romance languages.

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)
2. Core electives (minimum of nine credits, three courses), from:
 - HIS 3450 — Canadian American Relations
 - P S 3750 — Government and Politics of Canada
 - GPH 5700 — Urban Canada
 - GPH 5750 — Social and Economic Geography of the U. S. and Canada
 - GPH 6350 — Ethnic Groups in the United States and Canada
 - P S 5510 — U.S. and Canadian Political Thought
 - P S 6370 — Comparative Public Administration
 - U P 6400 — Planning Issues

Other cognates:

- ANT 3530 — Native Americans
- ANT 6500 — North American Prehistory
- ENG 2600 — Introduction to Folklore
- GPH 6130 — Advanced Urban Geography
- GPH 6510 — Urban and Regional Systems
- P S 3050 — Politics of the American Presidency
- P S 5810 — American Foreign Policy and Administration

Please note that additional 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.

CLASSICS, GREEK, and LATIN

Office: 431 Manoogian Hall; 577-3032

Chairperson: Kathleen McNamee

Professors

Kathleen McNamee, Richard W. Minadeo

Associate Professors

Joel B. Itzkowitz, Michele V. Ronnick, Kenneth R. Walters

Assistant Professor

Jennifer A. Sheridan

Lecturer

Lena Hatzichronoglou

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 literature 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: teaching at the high school or university level, law, 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. Additionally, service courses are available for students, such as the vocabulary-building courses Classics 1230 — Word Origins: English Words from Greek and Latin; and Classics 1240 — Etymology: Medical Terms from Greek and Latin.

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 26) and the College of Liberal Arts Group Requirements (see page 217), 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 pages 15-45 and 217-221, respectively.

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), Philosophy 2100 (Ancient and Medieval Philosophy) or Classics 3000 (The Greek Philosophers).

In addition, two courses from the following electives are required:

Anthropology 3200	(HS) Prehistoric and Early Historic Civilizations
Anthropology 5270	Introduction to Archaeology
Anthropology 5310	Language and Culture
Art History 3070	Art & Archaeology of Ancient Egypt
Art History 3100	Biblical Archaeology
Art History 5220	Ancient Greek Architecture
Art History 5250	Ancient Rome
Art History 5260	Classical Greek Art
Art History 5300	Early Christian and Byzantine Art
Art History 5310	The Ancient City of Athens
Art History 5320	Classical Architecture in Britain and the United States
Classics 2000	Greek Mythology
Classics 2100	(PL) Honors Classical Origins of Western Thought
Classics 3100	Law and Ancient Society
Classics 5190	Daily Life in the Ancient World
Classics 5250	Greek and Roman Drama
Greek 2600 and above; Greek 1010-2010 if Latin is major language	
Greek 3710	(FC) Modern Greek Literature and Culture
History 3310	History & Civilization of the Ancient Near East I
History 5350	The Hellenistic Period
History 5360	The Early Middle Ages: 300-1000
Humanities 5330	Western Culture in the Classical Period
Latin 2600 and above; Latin 1010-2010 if Greek is major language	
Near Eastern Studies 2010	The Bible and Ancient Mythology
Philosophy 5410	Plato
Philosophy 5420	Aristotle
Speech (SPC) 2190	Rhetoric in Western Thought
Speech (SPC) 7190	Classical Rhetorical Theory

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
Art History 5200	Early Greek Art
Art History 5210	Hellenistic and Roman Art
Art History 5220	Ancient Greek Architecture
Art History 5300	Early Christian and Byzantine Art
Art History 5310	The Ancient City of Athens

* For specific requirements, consult the Wayne State University Graduate Bulletin.

Classics 2000	.....	Greek Mythology
Classics 2100	.....	(PL) Honors Classical Origins of Western Thought
Classics 2200	.....	(PL) Introduction to Greek Tragedy
Classics 3100	.....	Law and Ancient Society
Classics 5190	.....	Daily Life in the Ancient World
Classics 5200	.....	Special Studies
Classics 5250	.....	Greek and Roman Drama
History 5330	.....	History of Ancient Greece
History 5340	.....	History of Ancient Rome
History 5350	.....	Hellenistic History
History 5360	.....	The Early Middle Ages: 300–1000
History 5370	.....	The High Middle Ages: 1000–1300
Humanities 5330	.....	Western Culture in the Classical Period
Philosophy 2100	.....	(PL) Ancient Philosophy
Philosophy 5410	.....	Plato
Philosophy 5420	.....	Aristotle

Combined Curriculum for Secondary Teaching: Students who are preparing to teach Latin in the secondary schools and who wish to obtain a B.A. degree with a concentration in Latin must complete the concentration in Latin as outlined above and the requirements for this curriculum set by the College of Education. For further information on this curriculum, see 'Secondary Teaching,' under Undergraduate Curricula, page 224.

Honors Program

Qualified majors may apply for participation in the departmental Honors Program. Only the student who has demonstrated superior ability in the field of Classical languages and/or literature and who shows promise of acquiring greater breadth and depth of knowledge through tutorial study will be admitted to the program. As preparation for admission, the student is required, during the freshman and sophomore years, to acquire basic knowledge of one of the languages (ideally, of both) and is encouraged to elect Classics 1010 (Classical Civilization) and 2000 (Greek Mythology).

Once the Honors candidate has been admitted to the program (normally at the end of the sophomore year) he/she shall fulfill the normal requirements for the elected major. In the senior year students should elect a minimum of eight credits in Classics 4900, which will prepare and guide them in the writing of a Senior Honors Essay. One of the 4000-level interdisciplinary seminars offered by the Honors Program must also be completed, and the student must have acquired at least fifteen credits in honors-designated course work, including Classics 4900 and the Honors Program seminar. Finally, written and oral comprehensive examinations must be successfully completed in the senior year. The diploma of a successful honors candidate will read 'Graduation with honors in Classics'.

Eligible students who are interested in the program should consult the department undergraduate adviser. For information about additional honors-designated course work available each semester, contact the Director of the Honors Program (577-3030) or see the Liberal Arts section of the University *Schedule of Classes* under 'Honors Program.'

Minors and Cognate Study

Minor Requirements in Classics: A minor in Classics consists of one of the following:

A *concentration in Ancient Greek*, consisting of twenty credits exclusive of Greek 1010 and 1020 and including one Classics course from CLA 2000 or above. Potential minors are also encouraged to elect Classics 1010 (Classical Civilization) and Classics 2000 (Greek Mythology) during their freshman or sophomore year. For recommended cognates, see those listed above for majors in the field.

A *concentration in Latin*, consisting of twenty credits exclusive of Latin 1010 and 1020 and including one Classics course from CLA 2000 or above. Potential minors are also encouraged to elect Classics 1010 (Classical Civilization) and Classics 2000 (Greek Mythology) during

their freshman or sophomore year. For recommended cognates, see those listed above for majors in the field.

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 1110*, 1120*, 2110*, 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, 3000, 3190, 5250, 6210, 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 Culture 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 Cultural Studies 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 firsthand 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 archeological 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 Greek Studies Program.

* 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 221, above, and the section on the Office of Scholarships and Financial Aid, page 21. For further information, contact the Department Office.

UNDERGRADUATE COURSES

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99*. In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

CLASSICS IN ENGLISH TRANSLATION (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)

1230. Word Origins: English Words from Greek and Latin. Cr. 3–4

Vocabulary-building course designed to enlarge English vocabulary and increase understanding and spelling proficiency through a study of Greek and Latin roots of English words; aspects of interpreting and remembering legal, medical, and scientific vocabularies included. (Y)

1240. Etymology: Medical Terms from Greek and Latin. Cr. 3–4

Principles for recognizing and analyzing the basic components of medical terms derived from Greek and Latin. For students interested in medicine, dentistry, nursing, and allied scientific fields. No knowledge of a foreign language required. (Y)

2000. Greek Mythology. Cr. 3–4

Typical myths related to religion, custom, ethics, philosophy, art, literature. (T)

2100. (PL) Honors Classical Origins of Western Thought. (HON 2100). Cr. 3

Prereq: minimum 3.0 cumulative h.p.a. 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. (I)

2200. (PL) Introduction to Greek Tragedy. Cr. 3–4

Dramatic and literary features of representative plays of Aeschylus, Sophocles and Euripides. The origin and development of Greek tragedy; the enduring quality and contemporary relevance of these dramas. (T)

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. (I)

5190. Daily Life in the Ancient World. Cr. 3

Prereq: one CLA or HIS course or consent of instructor. Topics such as family, gender relations and sexual mores, housing, city and country life, athletics, festivals and entertainment, soldiering, slavery, trade, and farming; focus on everyday experiences. (I)

5200. Special Studies. Cr. 1–4(Max. 8)

Prereq: minimum of one previous classics course, 200 level or above. 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)

5990. Directed Study. Cr. 1–4 (Max. 8)

Prereq: undergrad., at least two classics courses and written consent of chairperson; grad., written consent of chairperson and graduate officer. Directed independent research in depth on a topic or author not treated in the regular classics offerings, culminating in a course paper. (T)

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 5930 is independent of grade in corequisite course. 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)

GREEK (GRK)

Ancient Greek

1010. Elementary Greek. Cr. 4

Basic vocabulary, forms, grammar. (F)

1020. Elementary Greek. Cr. 4

Prereq: GRK 1010. Continuation of GRK 1010 with increasing emphasis on reading ability. (W)

2010. (FC) Classical Greek Prose. Cr. 4

Prereq: GRK 1020. Selections from various classical Greek prose authors such as Plato and Lysias. (F)

2600. Homer. Cr. 4

Prereq: GRK 2010 or equiv. or consent of instructor. Reading of selected passages from the *Iliad* and the *Odyssey*; study of the fundamentals of Homeric Greek. (I)

5000. Greek for Graduate Students. Cr. 1–3(Max. 3)

Prereq: graduate standing. 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. (Y)

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)

5300. Attic Orators. Cr. 4

Prereq: GRK 2600 or equiv. or consent of instructor. Development of Greek prose style and rhetoric in selected works of the Attic orators. (I)

5400. Greek Philosophy. Cr. 4

Prereq: GRK 2600 or equiv. or consent of instructor. The origin and development of Greek philosophy as seen through representative selections from the Presocratics, Plato, Aristotle, Epicurus, and the Stoics. (I)

5600. Epic Poetry. Cr. 4

Prereq: GRK 2600 or consent of instructor. Study of the epic poetry of Homer, Hesiod, Apollodorus and others in ancient Greek. Theory of oral vs. literary composition, the Homeric question, and metrics. (I)

5990. Directed Study. Cr. 1–4(Max. 8)

Prereq: undergrad., written consent of chairperson; grad., consent of chairperson and graduate officer. (T)

6250. Greek Drama. Cr. 4

Prereq: any 300-level or above Greek course, or consent of instructor. Selected readings from the plays of Aeschylus, Sophocles, or Euripides and from the plays of Aristophanes or Menander. History and theory of the development of Greek drama and its subsequent influence on world literature. (I)

Modern Greek

1110. Elementary Modern Greek. Cr. 4

Material fee as indicated in *Schedule of Classes*. Training in pronunciation, conversation and reading. (F)

1120. Elementary Modern Greek. Cr. 4

Prereq: GRK 1110 or equiv. Material fee as indicated in *Schedule of Classes*. Continuation of GRK 1110. (W)

2110. (FC) Intermediate Modern Greek. Cr. 4

Prereq: GRK 1120 or equiv. Material fee as indicated in *Schedule of Classes*. Review of grammar, practice in oral and written modern Greek, based on readings in modern Greek literature. (F)

2610. Advanced Grammar, Conversation and Composition. 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. Cr. 4

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)

LATIN (LAT)

1010. Elementary Latin. Cr. 4

Basic vocabulary, forms, grammar. (T)

1020. Elementary Latin. Cr. 4

Prereq: LAT 1010. Continuation of LAT 1010, with increasing emphasis on reading ability. (Y)

2010. (FC) Latin Literature. Cr. 4

Prereq: LAT 1020. Representative selections of Latin prose and poetry. (Y)

2600. Latin Poetry. Cr. 4

Prereq: LAT 2010 or equiv. or consent of instructor. Representative selections of the poetry of Catullus, Virgil, Horace, Ovid, Martial and Latin elegy. (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)

5000. Latin for Graduate Students. Cr. 1–3(Max. 3)

Basic vocabulary, forms and grammar of Latin leading to the reading of continuous Latin prose passages. Offered in conjunction with LAT 1010 or LAT 1020. (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)

5830. Roman Philosophy. Cr. 4

Prereq: LAT 2600 or equiv. or consent of instructor. Readings in Latin of the Roman philosophers, including the works of Lucretius, Cicero, Manilius, and Seneca. (I)

5850. Epic. Cr. 4

Prereq: LAT 2010 or 2600 or equiv. Readings in Latin of the works of Ennius, Vergil, Lucan, Statius and others. (I)

5860. Lyric and Elegy. Cr. 4

Prereq: LAT 2600 or equiv. or consent of instructor. Readings in Latin of lyric and elegaic poetry including the works of Catullus, Tibullus, Horace, and Propertius. (I)

5990. Directed Study. Cr. 1–4(Max. 8)

Prereq: undergrad., written consent of chairperson; grad., written consent of chairperson and graduate officer. (T)

5993. (WI) Writing Intensive Course in Latin. 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 LAT 5930 is independent of grade in corequisite course. 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)

6820. Roman Rhetoric. Cr. 4

Prereq: LAT 3150 or equiv. or consent of instructor. Study of Roman rhetorical theory and practice. (I)

6840. Roman Drama. Cr. 4

Prereq: LAT 3150 or equiv. or consent of instructor. Study of Roman comedy and tragedy through study of plays of Plautus, Terence, and Seneca. Early history of Roman drama studied through literary remains of Accius, Pacuvius, and Naevius. (I)

CRIMINAL JUSTICE

Office: 2305 Faculty/Administration Building; 577-2705

Chairperson: Steven Stack

Professors

Steven Stack, Marvin Zalman

Associate Professor

Thomas M. Kelley

Assistant Professors

David Canales-Portalatin, Olga Tsoudis

Lecturer

Denis Hunter

Adjunct Faculty

William Brown, Ernest Costa, Michael Falvo, William Furtaw, Sammie Harris, Daniel McKane, John O'Neill, Janet Prater, Mark Randon, Lamont Satchel, Richard Wagner, Steven White

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.

Bachelor of Science in Criminal Justice

The Bachelor of Science program stresses a broad undergraduate education designed to enhance the student's liberal arts background in the social sciences and humanities. 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 for up to eight credits under the guidance of the field placement coordinator.

The curriculum in criminal justice is multi-disciplinary with faculty drawn from different departments of the College. 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 (24-27 credits) include classes in a variety of disciplines comprising theories of criminal behavior, criminal law, criminal justice institutions, 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; analytic research methods used to better understand the social and behavioral realities of criminal justice.

Cognate areas: a minimum of twelve credits in courses from two of the fourteen cognate areas must be selected for concentrated work in the criminal justice field. The cognate areas 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 26) and the College of Liberal Arts Group Requirements (see page 217), 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 pages 15-45 and 217-221, respectively.

Residency Requirements: A minimum of sixteen of the 24-27 credits in Core courses and eight of the 12-16 credits in Cognate and Elective courses must be earned at Wayne State University.

Major Requirements: Students majoring in criminal justice must complete a minimum of thirty-seven and no more than forty-six credits. A minimum of twenty-seven credits must be completed in core courses, and a minimum of twelve credits in cognate area courses. It is the student's responsibility to meet with a Criminal Justice adviser to identify all major requirements.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

I. Core Courses (Twenty-four to twenty-seven credits total) credits

At least one from the following:

ANT 2100 — (SS) Introduction to Anthropology	3
CRJ 1010 — Introduction to the Criminal Justice System	4
PCS 2000 — Introduction to Peace and Conflict Studies	3
P S 1000 — (SS) Introduction to Political Science	3
PSY 1010 — (LS) Introductory Psychology	4
SOC 2000 — (SS) Understanding Human Society	3

Both of the following:

SOC 3820 — Theories of Crime and Delinquency	3
CRJ 5710 — Constitutional Criminal Procedure	4

At least two of the following four options:

1) Courts option:	
CRJ 4400 — The Judicial Process	4
2) Juvenile justice option:	
CRJ 4410 — The Juvenile Justice System	4
3) Police option:	
CRJ 4600 — The Police in America	4
4) Corrections option:	
CRJ 4300 — Penology	4

One of the following process courses:

AFS 3860 — Race, Class and the Criminal Justice System	3
CRJ 3120 — Politics of the Criminal Justice Process	4

At least one of the following research methodology or statistics courses:

Research methodology:	
CRJ 5860 — Research in Criminal Justice	4
P S 3600 — Methods of Political Inquiry	4
P S 4460 — Techniques of Policy Analysis	4
PSY 4020 — Research in Psychology	3
SOC 4200 — (WI) Methods of Social Research	4
Applied statistics:	
ECO 4100 — Economics and Business Statistics	3
P S 5630 — Statistics and Data Analysis in Political Science I	4
PSY 3010 — Statistical Methods in Psychology	4
SOC 6280 — Social Statistics	4

II. Cognate and Elective Courses

A minimum of twelve cognate credits must be elected; no more than twenty-three cognate credits may be from CRJ courses. They must be selected from at least two cognate areas; at least two courses must be elected from each area selected (Once the minimum number of credits to satisfy the cognate requirement has been elected, any of the courses listed below may be taken as criminal justice elective courses.)

Criminal Justice Cognate

ANT 5180 — Introduction to Forensic Science
CRJ 3260 — Investigation
CRJ 3510 — Introduction to Security
CRJ 4400 — The Judicial Process
CRJ 4410 — The Juvenile Justice System
CRJ 4600 — The Police in America
CRJ 4990 — Directed Study
CRJ 4998 — Honors Thesis in Criminal Justice
CRJ 5060 — Comparative Criminal Justice Systems
CRJ 5700 — Understanding and Coping With Stress in Law Enforcement

CRJ 5720 — Criminal Law
CRJ 5994 — Dispute Resolution
CRJ 5995 — Special Topics in Criminal Justice
CRJ 6000 — Internship in Criminal Justice
CRJ 6230 — Advanced Law Enforcement Administration
CRJ 6600 — Social and Legal Dynamics of Child Abuse
CRJ 6750 — Administrative Law in Criminal Justice
CRJ 6860 — Organized Crime: Its History and Social Structure
SOC 5010 — Selected Sociological Topics: White Collar Crime
SOC 5870 — Violence in the Family

Correctional Counseling Cognate

CRJ 4300 — Penology
CRJ 5700 — Understanding and Coping With Stress in Law Enforcement
CRJ 5995 — Special Topics in CRJ
CRJ 6000 — Internship
PSY 4110 — Introduction to Psychological Tests
PSY 4320 — Introduction to Clinical Psychology
PSY 5280 — Psychoanalytic Theory

Juvenile Justice Cognate

CRJ 4410 — The Juvenile Justice System
CRJ 5995 — Special Topics in CRJ
CRJ 6000 — Internship
CRJ 6600 — Social & Legal Dynamics of Child Abuse

Law Enforcement Cognate

CRJ 3260 — Investigation
CRJ 4600 — The Police in America
CRJ 5700 — Understanding & Coping with Stress in Law Enforcement
CRJ 5995 — Special Topics in CRJ
CRJ 6230 — Advanced Law Enforcement Administration

Collective Conflict and the State Cognate

AFS 5580 — Law and the African American Experience
HIS 3995 — Special Topics: The History of Terrorism
PCS 2000 — Introduction to Peace and Conflict Studies
P S 3510 — (PL) Law, Authority and Rebellion
SOC 5550 — Collective Behavior: Masses, Mobs, and Social Realities

History Cognate

HIS 3995 — Special Topics: History of Terrorism
P S 3530 — Community-Building in History of Western Political Thought

Ethical Issues Cognate

PHI 2320 — (PL) Introduction to Ethics
PHI 2330 — Introduction to Social and Political Philosophy
PHI 5280 — History of Ethics
PHI 5300 — Twentieth Century Analytic Ethics
P S 2420 — Ethics and Politics of Public Policy
P S 3510 — (PL) Law, Authority and Rebellion
P S 3520 — (PL) Justice
P S 3530 — Community-Building in History of Western Political Thought

Law and Legal Studies Cognate

AFS 5580 — Law and the African American Experience
CRJ 3710 — Legal Writing
CRJ 4400 — Judicial Process
CRJ 5720 — Criminal Law
CRJ 5790 — Topics in Justice and Law
CRJ 5810 — Law in Human Society
HIS 5160 — Constitutional History of the United States to 1860
HIS 5170 — Constitutional History of the United States from 1860 to 1940
HIS 5280 — American Legal History

- PHI 5270 — Philosophy of Law
- P S 3100 — American Legal Systems and Processes
- P S 3110 — Politics and Local Justice
- P S 5110 — Constitutional Law
- P S 5120 — Constitutional Rights and Liberties
- SOC 5010 — Selected Sociological Topics: Law and Social Psychology

Individual Behavior Cognate

- AFS 5580 — Law and the African American Experience
- ANT 5200 — Social Anthropology
- PSY 2600 — Psychology of Social Behavior
- PSY 3380 — Human Sexuality
- PSY 5680 — Social Psychology of Personality
- SOC 2020 — (SS) Social Problems
- SOC 4100 — (SS) Social Psychology

Deviant and Abnormal Behavior Cognate

- CRJ 4800 — Outsiders, Outcasts and Social Deviants
- PSY 2080 — Introduction to Drugs, Behavior and Society
- PSY 3310 — Abnormal Psychology
- PSY 4320 — Introduction to Clinical Psychology
- SOC 5870 — Violence in the Family

Domestic Relations Cognate

- CRJ 6600 — Social and Legal Dynamics of Child Abuse
- PSY 3380 — Human Sexuality
- SOC 3400 — Exploring Marriage and Other Intimate Relationships
- SOC 4460 — Women in Society
- SOC 5400 — The Family
- SOC 5410 — Marriage and Family Problems
- SOC 5450 — Human Sexual Behavior and Society
- SOC 5460 — Sex Roles
- SOC 5870 — Violence in the Family

Urban Studies Cognate

- ANT 3110 — Detroit Minorities: Arabs, Hispanics and African Americans
- ANT 5060 — Urban Anthropology
- P S 2240 — (SS) Introduction to Urban Politics and Policy
- P S 5220 — Issues in Urban Policy and Management
- SOC 5500 — Urban and Metropolitan Living
- SOC 5570 — Race Relations in Urban Society

Group and Organizational Dynamics Cognate

- P S 3430 — Bureaucracy and Public Policy
- PSY 5630 — Group Dynamics
- PSY 5680 — Social Psychology of Personality

Public Policy and Processes Cognate

- AFS 5580 — Law and the African American Experience
- ECO 5200 — Regulation and Regulated Industries
- P S 2410 — Introduction to Public Policy
- P S 2420 — Ethics and Politics of Public Policy
- P S 5220 — Issues in Urban Public Policy and Management

Total Degree Program Credits 37–46

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, 4300, 4400, 4410, 4600, 4990, 4998, 5060, 5710, 5720, 5860, 5995, 6230, 6430, 6600, or 6750.

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:

CRJ 1010 — Introduction to the Criminal Justice System	4
CRJ 4300 — Introduction to Corrections and Penology	4
CRJ 4400 — Introduction to the Judicial Process	4
CRJ 4600 — The Police in America	4
CRJ 5710 — Constitutional Criminal Procedure	4
Criminal Justice Elective	3–4
TOTAL: 21–22	

Students wishing to minor in criminal justice are encouraged to visit the Departmental Offices for information and counseling. A minor may be declared when 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 justice the following are recommended:

CRJ 1010	Introduction to the Criminal Justice System	
CRJ 3260	Investigation	
CRJ 3710	Legal Writing	
CRJ 4400	Introduction to the Judicial Process	
CRJ 5710	Constitutional Criminal Procedure	
CRJ 5720	Criminal Law	
CRJ 5995	Special Topics in Criminal Justice	

Also see pre-law courses in Undergraduate Curricula, page 222.

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 Senior Rule provision. Minimum requirements for Senior Rule study include: a 3.0 Honor 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.

A more complete discussion of the Master of Science in Criminal Justice degree program appears in the Wayne State University Graduate Bulletin.

Honors in Criminal Justice

The Honors Program in Criminal Justice is open to students of superior academic ability who are majoring in criminal justice. To be recommended for an honors degree from this department, a student must maintain a cumulative honor point average of at least 3.3. He/she must accumulate at least fifteen credits in honors-designated course work from various departments in the College, including honors 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 demonstrate 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 Chairperson of the Department, or the Director of the Liberal Arts Honors Program (577-3030).

UNDERGRADUATE COURSES (CRJ)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

1010. Introduction to the Criminal Justice System. Cr. 4

Scientific method and multidisciplinary approach to administration, procedures, and policies of agencies of government charged with enforcing the law, adjudicating crime, and correcting criminal and deviant conduct. Response of justice system to social norms and trends; reciprocal relationship to social behaviors and values. (T)

3120. Politics of the Criminal Justice Process. (P S 3120). 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. (T)

3260. Investigation. Cr. 3

Prereq: CRJ 1010. Overview of the history of criminal investigation, the functions of police investigators, crime scene search and evidence processing, an introduction to criminalistics, locating and interviewing witnesses, examining the elements of proof required in specific criminal offenses and interrogation techniques (pre- and post-Miranda). (T)

3510. Introduction to Security: Persons and Property. Cr. 4

No credit after former CRJ 2310. Historical, philosophical and legal framework for security operations; detailed presentations of specific security processes and programs currently and historically utilized in providing security; operational view of specialized areas of security in loss prevention management. (T)

3710. Legal Writing for Criminal Justice. Cr. 4

Basic elements of legal research; the law library and finding the law; case analysis; statutory analysis; constitutional analysis; writing legal memorandums; writing legal briefs; persuasive writing. (T)

4300. Penology: Punishment and Corrections. (SOC 3840). Cr. 4

Prereq: CRJ 1010. No credit after former CRJ 230 or CRJ 270. 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 may be offered. (T)

4400. The Judicial Process. Cr. 4

Prereq: CRJ 1010. No credit after former CRJ 240. Structure, powers, doctrines and judicial processes including origin, nature and functions of judicial review in the criminal justice system. (T)

4410. The Juvenile Justice System. Cr. 4

Prereq: CRJ 1010. No credit after former CRJ 241 or CRJ 291. Overview of the juvenile justice system; interrelationships with other components of the criminal justice system. Evaluation of law enforcement approaches to police–juvenile contacts. (T)

4600. The Police in America. Cr. 4

Prereq: CRJ 1010. No credit after former CRJ 260. Role of the police officer in relation to the customs and problems of the community and to other elements in the criminal justice system. Comparative analysis of techniques being used by law enforcement agencies to deal with crime. (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)

4990. Directed Study. Cr. 1–3

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 650. Selected criminal justice systems in other nations. (B)

5700. Understanding and Coping With Stress in Law Enforcement. Cr. 3

Provides criminal justice personnel with a bio–social framework or model to identify specific stresses peculiar to law enforcement work and develop adaptive mechanisms to mediate stress and alleviate the psychological effects of stress. (Y)

5710. Constitutional Criminal Procedure. Cr. 4

Prereq: minimum of 12 credits in criminal justice; CRJ 1010. Not for graduate credit without consent of graduate program director. 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 director. 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. 4

Prereq: junior status; 3.0 h.p.a. or above, or honors student. Legal analysis of selected topics in justice and law; rotating topics including political trials. (Y)

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)

5860. Research in Criminal Justice. Cr. 4

Criminal justice data sources; designs for research; analysis and application of descriptive and inferential statistics in criminal justice planning and evaluation. (T)

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, 4300, 4400, 4600, 4990, 4998, 5060, 5700, 5710, 5720, 5860, 5995, 6000, 6020, 6230, 6430, 6600, 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 sectors 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 1010. No credit for repeated section. (T)

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 state, county and local levels; work opportunities include agency procedure and policy, patrol, case analysis, report writing and research. (T)

6230. Advanced Law Enforcement Administration. Cr. 3

Prereq: CRJ 1010. Police-management problems; organization and objectives, planning and coordination, public relations and support. (Y)

6350. (P S 6350) Judicial Administration. Cr. 3

Investigation of management of court processes and personnel; role of court administrators; financing, budgeting, speedy trial, indigent representation problems; alternatives to litigation; impact analysis. (B)

6600. Social and Legal Dynamics of Child Abuse. Cr. 3

Prereq: CRJ 2410. 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. (Y)

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)

6860. (SOC 6860) Organized Crime: Its History and Social Structure. Cr. 3

Prereq: CRJ 3850 or SOC 3820. Open only to juniors, seniors and graduate students. Analysis of the history and social structure of organized crime. Contemporary national and international forms of criminal enterprises. (B)

ECONOMICS

Office: 2074 Faculty/Administration Building; 577-3345

Chairperson: Robert J. Rossana

Administrative Assistant: Delores G. Tennille

Professors

Timothy M. Bates, Ralph M. Braid, David I. Fand (Emeritus), Thomas J. Finn, Jr. (Emeritus), Allen C. Goodman, I. Bernard Goodman (Emeritus), Mark L. Kahn (Emeritus), Jay H. Levin, Li Way Lee, John M. Matula (Emeritus), John D. Owen, Karl Roskamp (Emeritus), Robert J. Rossana

Associate Professors

R. King Adamson (Emeritus), Kevin D. Cotter, Gail A. Jensen, Stephen J. Spurr

Assistant Professors

Basma Bekdache, John T. Durkin, Jr., Philip J. Grossman, Julie Hunsaker, Panagiotis Mavros

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 international trade. Together these public and private choices determine 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 218). 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 217) and the University General Education Requirements (see page 26), 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 pages 15–45 and 217–221, respectively.

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, economic history and development, 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 honor point average of 2.0 in their economics courses. In addition, all majors must receive a minimum grade of 'C' in each of the Department's core courses (ECO 5000, 5050, and 5100).

Writing Proficiency/Writing Intensive Requirement (Effective January 1993): 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 honor 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 honor 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. (ECO 4100 cannot be used to satisfy minor requirements.) At least three courses must be taken in residency. Students must have a cumulative honor 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.

The Samuel M. Levin Award

Economics undergraduates are eligible to enter in the annual essay competition for the Samuel M. Levin Award. Essays are judged by a faculty committee, which awards a cash prize of \$1000 provided that an entry of sufficient merit is received. The award fund is supported by private donations in honor of Samuel M. Levin, the Department's first chairperson, and is intended to encourage research and publication in economics.

UNDERGRADUATE COURSES (ECO)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

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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 487.

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)

1300. Economic Issues of Canada, Mexico, and the United States. Cr. 3

Introduction and application of main tools used by economists in analyzing current issues in the North American economy. Differences in the labor market in the three countries and the effect of international trade on these labor markets. Special attention to the effect of this integration on the economy of the Detroit area. (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 national 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)

6450. Economic Analysis and Public Administration. Cr. 3

No major or minor credit in economics. Basic tools of microeconomic analysis; decision-making by individuals, firms (including government regulation), collectivities (including benefit-cost analysis). Application of analysis to areas of public administration, such as: aging, health care, education, pollution, discrimination, income stabilization, industrial policy, other long-term policy issues. (S)

Field B: Quantitative Methods

4100. Economics and Business Statistics. Cr. 3

Prereq: ECO 2010 and 2020; MAT 1500 or MAT 1800 or equiv based on satisfactory score on math placement exam. Not for major credit. Introduction to statistical inference; probability, including subjective probability; expected value and variance; sampling distributions and elementary problems of estimation and hypothesis testing. (T)

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)

6110. Applied Economic Analysis and Forecasting. Cr. 4

Prereq: ECO 6100 or consent of instructor. Applications of econometrics in structural analysis. Use of econometric, extrapolative, and univariate time series models in forecasting. Examples may include forecasting interest rates, price levels, GNP, participation rates, and levels of demand. (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. Applied price theory; economic analysis of substantive and procedural issues of law. (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; the European monetary system; the Third World debt problem; and proposals to reform the international monetary system. (W)

Field E: Labor and Human Resources

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 Institutions 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)

5510. Public Choice. Cr. 4

Prereq: ECO 2010 or consent of instructor. Decision-making process of government; cost benefit analysis; voting rules—majority voting and alternatives; theories of representative democracy; theory of bureaucracy; theory of rent seeking; government as Leviathan. (W)

5520. State and Local Public Finance. (U P 6750). Cr. 4

Prereq: ECO 2010 or consent of instructor. Theory and practice of state and local government taxation and expenditure. Attention devoted to State of Michigan and municipalities in Detroit metropolitan area. Topics include: government organization, voting and mobility

models, property and sales taxes, user charges, grants, education expenditure, and economic development. (W)

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)

5600. Introduction to Development Economics. Cr. 4

Prereq: ECO 2010 or consent of instructor. National poverty and economic growth viewed from an historical and theoretical perspective; particular emphasis on national and international policies. (Y)

Field G: Economic History and Development

6650. (ULM 6210) Regional, State, and Urban Economic Development: Policy and Administration. (P S 6440) (U P 6550). Cr. 3

Prereq: graduate standing. Examination of regional, state, and local economic development theory, analysis, policy and administration. (B)

Field H: 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; how money affects economic activity. (F,W)

Field I: 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)

6810. (ULM 6150) Political Economy of the Urban Ghetto. (U P 6670)(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. (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. 3–8

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. 3–12(Max. 12)

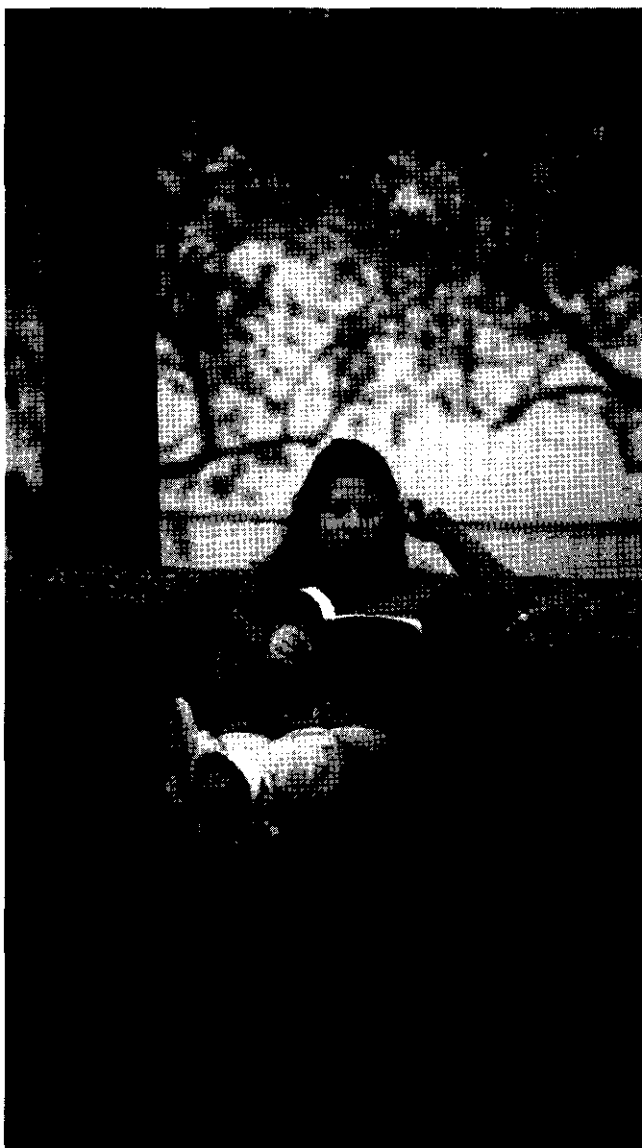
Prereq: consent of department prior to registration; senior standing with 12 or more credits in economics with grade A or B. Economic research on an appropriate topic of the student's choice, conducted under faculty supervision. (T)

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)

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, 5600, 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. 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)



ENGLISH

Office: Room 1200, 51 West Warren; 577–2450

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Associate Chairperson: Elizabeth S. Sklar
Academic Services Officer: Margaret M. Maday

Professors

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Assistant Professors

Corey Creekmur, Cynthia Erb, Margaret Jordan, Alison Landsberg, Richard C. Marback, Bruce S. Morgan, Ljiljana Progovac, Barrett Watten

Senior Lecturer

Michael L. Liebler

Lecturers

Marta O. Dmytrenko–Ahrabian, Robert Bruhn, Todd Duncan, H. Douglas Farris, Jr., Anne S. Finger, Dorothy Huson, Gloria Lewis, Dean–Michael Lynn, Phoebe Mainster, Sara Tipton, Chris Tysh, George Tysh, Barbara Van Camp

Director, English Language Institute

Bruce S. Morgan

Emeritus Professors

Alvin B. Aubert, Esther M. Broner, Samuel A. Golden, Arnold L. Goldsmith, Yates Hafner, Orville F. Linck, Ralph L. Nash, Joseph Prescott, Herbert M. Schueller, Alfred Schwarz, Robert M. Strozier II, Beongcheon Yu

Emeritus Associate Professors

Bradford S. Field, Jeanne A. Flood, Isabel Graham, David S. Herreshoff, Jay W. McCormick, William E. Mockler, Amy K. Richards, Edward Sharples, Paul Sporn, Travis E. Tritschuh

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 specializations in American literature, English literature, literary criticism, and composition research*

*For specific requirements, consult 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 designated members of the Department provide advising to English majors. As soon as possible, and no later than the completion of sixty credits, the prospective major should consult an adviser in the Department to discuss a course of study.

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 217) and the University General Education Requirements (see page 26), 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 pages 15–45 and 217–221, respectively.

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 eleven English courses beyond the University General Education Competency Requirement (see page 27), and Liberal Arts Group Requirements (see page 217). Nine of these courses must be beyond the 2000 level. (For exceptions in combined degree programs, see below.) Specific requirements are as follows:

1. 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, 5700, 5740, 5750, or 5790).

2. 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, 5060, 5070, 5480, 5580, 5590, 5650, 5670, 5870, 5880, or 5890).

3. Three courses in English and American literature as listed below:

One course in English literature to 1700 (either English 3110 or a course numbered English 5100 to 5190)

One course in English literature from 1700 to the present (either English 3120 or a course numbered English 5200 to 5320)

One course in American literature (either English 3140 or a course numbered English 5400 to 5490).

4. English 5992, English Majors' Seminar. 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 may substitute a 5000-level course with ENG 5993 co-registration for the Majors' 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 33 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 either in composition, composition theory, or the teaching of writing. 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:

a) complete a minimum of fifteen credits in Honors-designated courses, nine of which may be in any department;

b) earn a grade of at least 'A-minus' in ENG 4992, the English Honors Project;

c) complete one of the interdisciplinary 4000-level seminars offered by the Liberal Arts Honors Program (HON 4200 through 4280);

d) satisfy all requirements for the major in English (for this purpose, ENG 4992 may count as a 5000-level elective; ENG 4991, taken for four credits, will substitute for ENG 5992); and

e) have at least a 3.5 h.p.a. in the major at the time of graduation.

Candidates for honors in English are encouraged to take advantage of the Honors-option coursework provision (see page 270) 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 Liberal Arts 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 honor point average at the 'cum laude' level (approximately 3.4) and not less than a 3.6 h.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 224.

Combined Curriculum with Dentistry, Law, or Medicine: (See page 219.) 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 all students in the College of Liberal Arts must pass one designated writing-emphasis literature course at the 2000 level to fulfill the College English Group Requirement. 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 (Basic Writing) before they take English 1020. (To take the English Qualifying Examination, students must apply upon admission to: Testing and Evaluation, University Counseling Services.)

In addition, designated English courses may be used toward fulfillment of the College and University philosophy and letters requirement (see page 30).

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 (or English 5100-5190), English 3120 (or English 5200-5320), English 3140 (or English 5400-5490)
- 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, though not required, to discuss the minor with an English adviser.

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 221, above, and the section on the Office of Scholarships and Financial Aid, page 21. For further information, contact the Department Office.

Loughead-Eldredge Endowed Scholarships in Creative Writing: Award of \$1500 open to an undergraduate in good academic standing and registered for at least six credits per term, who is pursuing a B.A. in English with a concentration in creative writing.

Albert Feigenson Endowed Memorial Scholarship: Awards open to full-time students majoring in music or English, with high scholastic standing and demonstrated financial need. Application deadline is April 30; contact the English Department and the Office of Scholarships and Financial Aid.

Doretta Burke Sheill Endowed Memorial Scholarship: Awards open to students majoring in English literature who demonstrate high scholastic achievement, character, leadership, and financial need. Application deadline is April 30; 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. Application deadline is April 30; contact the English Department for details.

UNDERGRADUATE COURSES (ENG)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90-x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

NOTE: ENG 1020 or its equivalent is prerequisite to all English courses numbered above 1999.

0100. Developmental English. Cr. 3

Prereq: admission to Project 350. No degree credit. Offered for S and U grades only. Intensive work in reading and writing. Emphasis on production of paragraphs and short essays which use the reading matter both for content and models. Emphasis on recognition and use of Standard English. (S)

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. 4

Prereq: placement through English Qualifying Examination. Offered for S and U grades only. No credit toward English group requirement. Only two degree credits. 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)

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. (F,W)

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)

2160. European Literature I: Classical Through Renaissance. Cr. 3

Prereq: ENG 1020 or equiv. Comparative approach to European national literatures in the historical periods from 500 B.C. to 1650 A.D. From Homer, Vergil, and Beowulf, to Dante, medieval romances, Spenser, Shakespeare, and Milton. (I)

2170. European Literature II: Renaissance to Modern. Cr. 3

Prereq: ENG 1020 or equiv. Comparative approach to European national literatures in the period 1650 A.D. to the present. (I)

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. (F,W)

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. (F,W)

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. (FLM 2010) (VP) Introduction to Film (SPF 2010). Cr. 4

Material fee as indicated in *Schedule of Classes*. Examination of film techniques and basic methods of film analysis. (T)

2460. (FLM 2020) (VP) History of Film (SPF 2020). Cr. 3

Material fee as indicated in *Schedule of Classes*. 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. (T)

2500. (PL) The English Bible as Literature. Cr. 4

Prereq: ENG 1020 or equiv. The King James text as a literary masterpiece. (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. (HIS 2700)(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)

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)

3030. (IC) Writing the Research Paper. Cr. 3

Prereq: ENG 1020 or equiv. Instruction in methods of academic research, including evaluation of sources and appropriate documentation. Opportunities to explore influence of computer-generated technology on the modern library and research strategies. Requires at least one substantial research paper. (T)

3050. (IC) Technical Communication I: Report Writing. Cr. 3

Prereq: ENG 1020 or equiv.; coreq: 0500 (1 credit) required for international students with serious ESL writing problems. 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: 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)

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. (B)

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 movie scenarios. Attention to the writing of dialogue. (B)

3991. Directed Study: Salford – W.S.U. Exchange. Cr. 3–9

Prereq: 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)

4990. Directed Study: Honors Program. Cr. 3–6(Max. 24)

Prereq: consent of English Honors Committee. (T)

4991. Honors Seminar. Cr. 3–6(Max. 24)

Prereq: 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)

Thematic, critical or generic study of women and literature. Topics to be announced in *Schedule of Classes*. (Y)

5040. Film Criticism and Theory. (FLM 5040). Cr. 3

Prereq: ENG 2450 or another film course or consent of instructor. Material fee as indicated in *Schedule of Classes*. Survey of the major film theories from Munsterberg to contemporary film semiotics; examination of various attempts made at a systematic understanding of the cinema. (Y)

5060. Styles and Genres in Film. (FLM 5060). Cr. 3(Max. 9)

Material fee as indicated in *Schedule of Classes*. 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*. (Y)

5070. Topics in Film. (FLM 5070). Cr. 3(Max. 9)

Material fee as indicated in *Schedule of Classes*. Topics (such as film and fusion of the arts) to be announced in *Schedule of Classes*. (Y)

5080. Topics in Cross-Disciplinary and Cultural Studies. Cr. 3 (Max. 9)

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)

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

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

Readings from *The Canterbury Tales* and from Chaucer's other works in cultural context. (I)

5120. Topics in Medieval Literature. Cr. 3(Max. 9)

Themes, genres, writers in English and continental Medieval literature. Topics to be announced in *Schedule of Classes*. (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**
For English majors and others interested in more intensive study than is offered in ENG 2200. Some attention to Shakespearean scholarship. (Y)
- 5160. Studies in Old English. Cr. 3–4(Max. 12)**
Selected topics such as *Beowulf*, poetry of the *Exeter Book*, gnomic literature, saints' lives. Topics to be announced in *Schedule of Classes*. (Y)
- 5170. Literature of the English Renaissance: 1500–1660. Cr. 3**
Survey of literature in all genres from Skelton through Milton, with an emphasis on non-dramatic poetry and prose. (B)
- 5180. Milton. Cr. 3**
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)**
Studies of particular authors or groups of authors from 1500–1660 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**
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)**
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**
A survey of nineteenth century British literature, with works selected from such authors as Wordsworth, Keats, Dickens, Carlyle, Tennyson, Swinburne and Hardy. (Y)
- 5260. Literature of the Romantic Period. Cr. 3**
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**
A survey of English literature from 1832–1901. Emphasis on 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)**
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**
Selected works in all genres from 1900 to the present. (B)
- 5320. Topics in Twentieth Century British Literature. Cr. 3(Max. 9)**
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**
A survey of American literature from the beginning through the Federalist period; transition from English/European heritages to ideas uniquely American. (B)
- 5410. American Literature: 1800–1865. Cr. 3**
A survey of the major writers, themes and movements: Irving, Cooper, Emerson, Thoreau, Hawthorne, Melville, Whitman; Federalism and Jacksonian literature; transcendentalism, romanticism. (Y)
- 5420. American Literature: 1865–1914. Cr. 3**
A survey of the major writers, themes, movements: Dickinson, Twain, Crane, Howells, James; the local colorists, social critics, early pragmatists. (Y)
- 5450. Modern American Literature. Cr. 3**
A survey of major writers, themes, movements since 1914: Stevens, Frost, Eliot, O'Neill, Anderson, Hemingway, Faulkner; the world wars, modernism and post-modernism. (Y)
- 5460. Topics in American Literature of the Twentieth Century. Cr. 3 (Max. 9)**
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**
Historical survey of African–American literature from Colonial times through the twentieth century. (B)
- 5480. Topics in African–American Literature. Cr. 3(Max. 9)**
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)**
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)**
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**
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)**
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. Theory of 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. Theory of English as a Second Language. (LIN 5750). Cr. 3

Detailed examination of theories of language and language acquisition relevant to the non-native speaker of English. Review of research in language acquisition and language learning. (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)

5780. Approaches to Technical and Professional Writing. Cr. 3

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)

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. 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. (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. (T)

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)

5990. Directed Study. Cr. 1–3 (Max. 6)

Prereq: Undergrad., 3.0 h.p.a., proposal submitted in preceding term, written consent of instructor and chairperson; Grad., 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)

5991. 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)

5992. English Majors' Seminar. Cr. 4

Open only to undergraduate English majors; should be taken in last year of course work. Study and discussion of topics to be announced in *Schedule of Classes*. Each student produces a substantial research paper; this course may be used to fulfill the General Education Writing Intensive requirement. (Y:F,W)

5993. (WI) Writing Intensive Course in English. Cr. 0

Prereq: junior standing, satisfactory completion of English Proficiency Examination, written consent of instructor; coreq: ENG 5920 or any 5000–level course below 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 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)

6010. English Institute for Teachers of Language and Literature. Cr. 1–4(Max. 12)

Prereq: bachelor's degree with a concentration in English. For prospective and in-service teachers. Topics to be announced in *Schedule of Classes*. (S)

6100. Introduction to Old English. Cr. 3

The fundamentals of language and grammar and the literary analysis of Old English texts. (I)

6800. Advanced Creative Writing. Cr. 3(Max. 6)

Prereq: grade of B or better in any 5000–level creative writing course or consent of instructor after submission of manuscript. Writing in any of the creative forms. Work by students presented in seminar meetings; individual conferences. Topics to be announced in *Schedule of Classes*. (Y)

FILM STUDIES

Offices: 51 West Warren, 313-577-2978;
585 Manoogian, 313-577-2943

Co-Directors: Jackie Byars, Cynthia Erb

Advisory Committee

AFRICANA STUDIES: Melba Boyd, Michael T. Martin

COMMUNICATION: Jackie Byars, Adwoa X. Muwzca, Robert Steele

ENGLISH: Lesley Brill, Robert Burgoyne, Corey Creekmur, Cynthia Erb, Margaret Jordan, Alison Landsberg, George Tysh

ROMANCE LANGUAGES: Andrea diTommaso

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 (FLM) 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, and Romance Languages and Literatures) continue historical and aesthetic studies, but they are also concerned with theories of film, particular genres and directoral 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 four departments noted above. Interested students should consult one of the Co-Directors or a committee member whose field most closely approximates the student's interests.

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 College of Liberal Arts Group Requirements (see page 217) and the University General Education Requirements (see page 26), 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 pages 15-45 and 217-221, respectively.

Major Requirements: students majoring in film studies must complete a minimum of thirty-five credits, distributed as follows:

CORE COURSES (Fifteen Credits)

credits

FLM 2010 —(VP) Introduction to Film	4
FLM 2020 —(VP) History of Film	3
FLM 4997 — Senior Assessment Essay	1
SPF 5400 —Techniques of Film/Video Production	4
ENG 5040 —Film Criticism and Theory	3

ELECTIVE COURSES (Twenty Credits)

AFS 3200 — The African American Cinematic Experience	4
AFS 5800 — Third World Cinema	3
ENG 5060 —Styles and Genres in Film	3 (Max. 9)
ENG 5070 —Topics in Film	3 (Max. 9)
FLM 3990 —Directed Study	1-3
SPF 5020 —Studies in Film History	4 (Max. 12)
SPF 5060 —Documentary and Non-Fiction Film	4
SPF 5250 —Screenwriting	3
SPF 5440 —Film Production	4
SPR 6880 — Individual Projects in Radio-Television-Film	3 (Max. 6)

Minor in Film Studies

Completion of a minor in film studies requires nineteen credits including FLM 2010 and any other selections from either the core or elective courses cited above under the Bachelor of Arts major program.

UNDERGRADUATE COURSES (FLM)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

The following courses, numbered 0900-6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 487.

2010. (VP) Introduction to Film. (ENG 2450) (SPF 2010). Cr. 4
Material fee as indicated in *Schedule of Classes*. Examination of film techniques and basic methods of film analysis. (T)

2020. (VP) History of Film. (ENG 2460) (SPF 2020). Cr. 3
Material fee as indicated in *Schedule of Classes*. 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. (T)

3200. (AFS 3200) The Afro-American Cinematic 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)

3990. Directed Study. Cr. 1-3(Max. 6)

Prereq: written consent of adviser; completion of twelve credits in film courses from FLM, ENG, or SPF. (T)

4997. Senior Assessment Essay. 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)

5040. (ENG 5040) Film Criticism and Theory. Cr. 3

Prereq: ENG 2450 or another film course or consent of instructor. Material fee as indicated in *Schedule of Classes*. Survey of the major film theories from Munsterberg to contemporary film semiotics; examination of various attempts made at a systematic understanding of the cinema. (Y)

5060. (ENG 5060) Styles and Genres in Film. Cr. 3(Max. 9)

Material fee as indicated in *Schedule of Classes*. 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*. (Y)

5070. (ENG 5070) Topics in Film. Cr. 3(Max. 9)

Material fee as indicated in *Schedule of Classes*. Topics (such as film and fusion of the arts) to be announced in *Schedule of Classes*. (Y)

5800. (AFS 5800) Third World Cinema. Cr. 4

Prereq: upper division or graduate standing. Study of the cinematic traditions and film practices in the Third World with emphasis on anticolonial and post colonial political cinema. (B)

5993. (WI) Writing Intensive Course in Film Studies. Cr. 0

Prereq: junior standing, consent of instructor, satisfactory completion of English Proficiency Examination; coreq: ENG 5040. 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)

GEOGRAPHY

Office: 225 State Hall; 577-2701; Fax: 577-0022

Chairperson: Gary Sands

Professors

Robert M. Boyle, Fred E. Dohrs (Emeritus), Robert J. Goodman (Emeritus), George J. Honzatko (Emeritus), Robert Sinclair, Alma H. Young

Associate Professors

Eugene D. Perle, Laura Reese, Gary Sands, Robert D. Swartz, Bryan Thompson

Assistant Professor

Susan Turner

Adjunct Faculty

Margaret Crawford

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 217) and the University General Education Requirements (see page 26), 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 pages 15-45 and 217-221, respectively.

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, 6650, and four other courses selected in consultation with a Departmental adviser.

* For specific requirements, consult the College of Urban, Labor and Metropolitan Affairs section of the Wayne State University Graduate Bulletin.

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 an honor 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.

UNDERGRADUATE COURSES (GPH)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90-x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

1100. (SS) World Regional Patterns. Cr. 4-5

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. (T)

2000. (U S 2000) (SS) Introduction to Urban Studies. (SOC 2500)(P S 2000)(HIS 2000). Cr. 4

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. (T)

2200. Geography of Michigan. Cr. 3

The spatial, physical, social, environmental, settlement and developmental patterns and problems of the State of Michigan. (I)

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. (I)

2700. (P S 2700) Introduction to Canadian Studies. (HIS 2700)(ENG 2670). 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)

2810. Geography of Latin America. Cr. 4

Variation in human and physical geographic phenomena and implications for conflict and coordination of interests (for example, trade interests, economic development, agricultural competition). (B)

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)

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 unities. (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)

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)

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)

5700. (GEG 5700) Urban Canada. (U P 5700). Cr. 4

Geographic introduction to Canada; emphasis on urban topics, including: 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. (B)

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)

5810. (GEG 5810) Locational Issues in Hazardous Waste Management. (HWM 5810). Cr. 3

Analyses of spatial aspects of sites used to treat, store and dispose of hazardous waste; corporate and public considerations and reactions; regulatory impacts; challenges in the reuse of contaminated urban properties. (B)

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)

6130. (GEG 6130) Advanced Urban Geography. (U P 6010). Cr. 4

Urbanization in its broader spatial context: theoretical and conceptual approaches to urban systems. City systems in advanced societies. Recent regional shifts in American urbanization; metropolitan restructuring; urban decline; evolution of the 'world' city; urbanization in the Third World. (B)

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 estimates for retail units; retail impact on urban land use; crime and commercial location; considerations for the elderly in commercial locations. (B)

6350. Ethnic Groups in the United States and Canada. (GEG 6350). Cr. 4

Ethnic settlement patterns in the United States and Canada from 1800 to the present. Topics include: meaning of ethnicity, migration theory, immigration, community formation and growth, urban spatial structure, ethnic Detroit, ethnic characteristics of selected Canadian cities including Toronto. (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 6050). Cr. 2–4

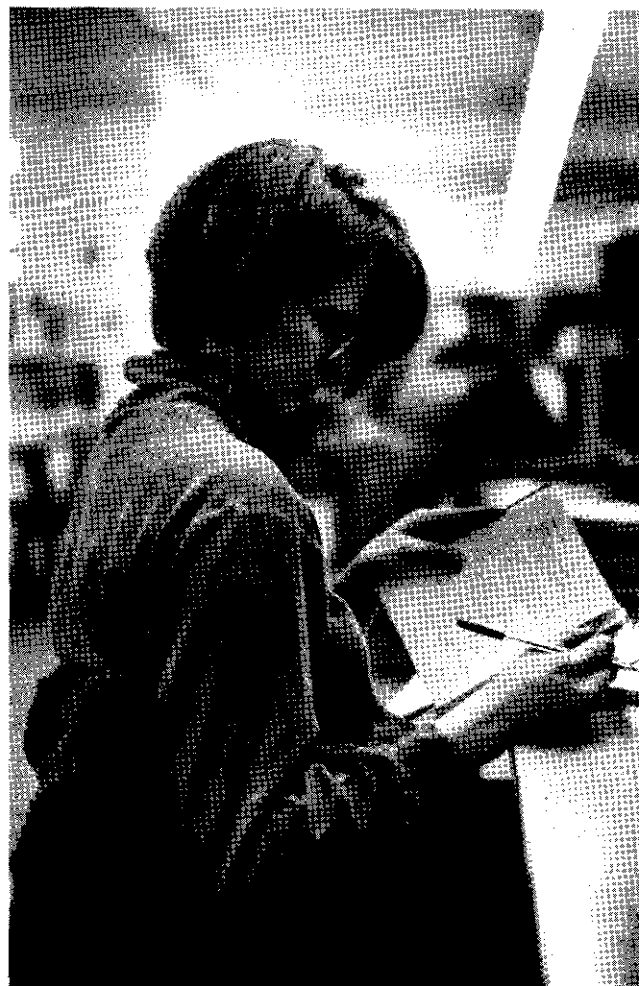
Prereq: consent of instructor; for Urban Studies students: U S 4010 and consent of instructor. Observation and interpretation of data in the field. Preparation, use and evaluation of classroom units in K–12; for pre-college teachers taking course for credit towards an advanced degree. Class preparations prior to travel; for K–12 teachers, classroom use and evaluation. Written reports. (Y)

6650. (GEG 6650) Computer Assisted Mapping. (U P 6720). Cr. 4

Science of computer assisted mapping and hands-on computer assisted map production; geo-management issues. (B)

6720. (GEG 6720) Computer Applications for Spatial Analysis. (U P 6820). Cr. 4

Prereq: course in elementary statistics recommended. Introduction to computer software for spatial analysis, including spatial statistics, computer graphics, and computer cartography. (Y)



GERMAN and SLAVIC STUDIES

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e-mail: gerslav@cms.cc.wayne.edu
Web site: <http://www.langlab.wayne.edu/germslav/gerslav.html>

Chairperson: Donald Haase

Professors

Penrith Goff (Emeritus), Edmund Ordon (Emeritus), Marvin Schindler (Emeritus), Guy Stern

Associate Professors

Vladimir Bezdek (Emeritus), Achim Bonawitz (Emeritus), Kenneth Brostrom, Alfred Cobbs, Erhard Dabringhaus (Emeritus), Donald Haase, Maria Roth (Emerita)

Assistant Professors

Catherine Baumann, Frank J. Corliss, Jr. (Emeritus), Karen H. Jankowsky, Halimur Khan

Lecturers

Mark Ferguson, Alina Klin-Norris, Dickran Toumajan

Instructor

Vera Andrushkiw

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*

**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 217) and the University General Education Requirements (see page 26), 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 pages 15-45 and 217-221, respectively.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

— Major Requirements

Major Requirements in German: A major in German must satisfactorily complete German 2310, 2710, 2720, 3100, 3200, 4100, 5993, and four courses in German on the 5000 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 Polish: Students wishing to obtain a minor in Polish are required to complete Polish 2060 (four credits), 2710, 3410, 3700 (one credit), 4450, and either Polish 3710 or three additional credits of Polish 2060.

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 Languages and Literatures

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 honor 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 completion of a Senior Thesis. For more information about the specific requirements of the department's honors curriculum, contact the Chairperson of the Department, or the Director of the Honors Program (577-3030).

Study Abroad

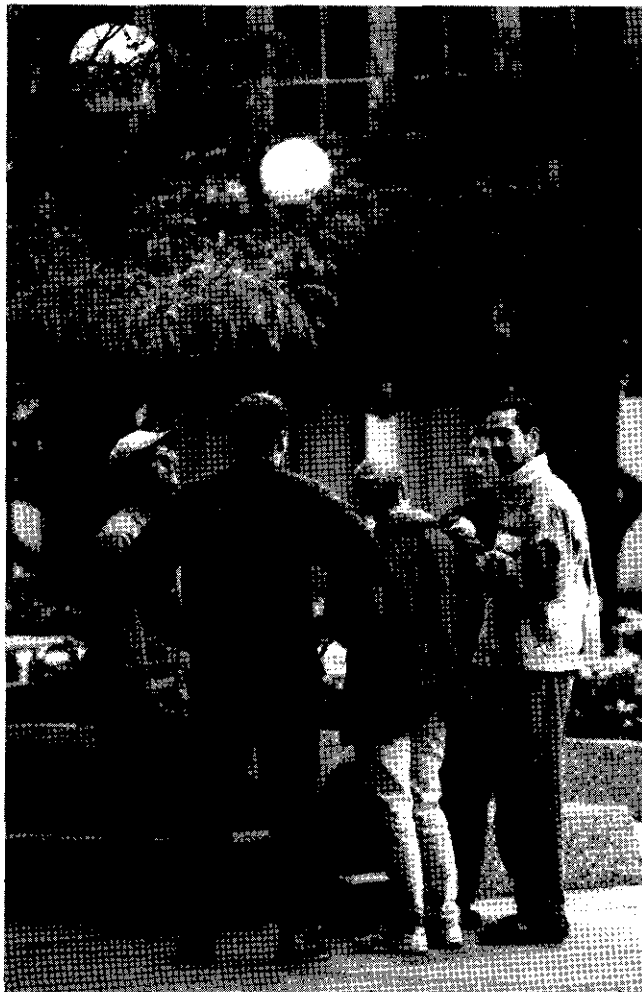
Junior Year In Germany Program: Juniors, seniors, or graduate students who would like to spend a year studying at the University of Freiburg or Munich are encouraged to contact the Junior Year in Germany Office, 471/473 Manoogian Hall; (313) 577-4605; (junyear@cms.cc.wayne.edu). For a more detailed description of the program see 'Study Abroad,' page 225.

Scholarships

Uwe K. Faulhaber Scholarship for Undergraduate German Language Studies: Awards made to undergraduates majoring or minoring in German language at Wayne State.

Friends of German Studies Scholarship: Award open to undergraduates enrolled in German language, literature, or culture courses, offered through Wayne State German Studies Area.

Also see page 221, above, and the section on the Office of Scholarships and Financial Aid, page 21. For further information, contact the Department Office.



UNDERGRADUATE COURSES

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90-x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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 (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. Team taught by specialists in the Department. (F)

3700. (SLA 3700) The Changing Face of Europe. (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)

3710. (SLA 3710) Russian and East European Film. (RUS 3710)(UKR 3710)(POL 3710). Cr. 3

Major Russian, Polish, Czech, Ukrainian and Armenian films viewed and discussed from political, cultural and aesthetic points of view. (Y)

**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. (Y)

German Cultural Studies in English (GER)

1050. (CT) Critical Thinking: Issues in German and Slavic Cultures. (SLA 1050). Cr. 3

Explicit instruction in critical thinking skills and application of those skills to topics related to the German and Slavic countries as well as to individual student lives. (T)

2310. (PL) Short Fiction from Central Europe and Russia. (SLA 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. (F)

2700. (PL) Anguish and Commitment: European Existentialist Literature. (SPA 2700)(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)

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. (F)

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. (W)

2991. (PL) Understanding the Fairy Tale. Cr. 3

Fairy tale's meaning and role in Western society from the Brothers Grimm to Walt Disney. Methods of fairy-tale interpretation. All lectures and reading in English. (W)

3410. (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 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. Team taught by specialists in the Department. (F)

3700. (SLA 3700) The Changing Face of Europe. (ARM 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)

5400. Cultural Studies and Criticism. (GER 7400). Cr. 3-4

Exploration of key concepts and major figures for scholarship in literary and cultural studies. Readings and class in English. Open to students from diverse disciplines. (I)

5450. Gender, Ethnicity, and Sexual Preference in German Literature and Film. (GER 7450). Cr. 3-4

Representations of gender, ethnicity, sexual preference of 19th- and 20th-century German culture through literature and film. Readings in English or German; films subtitled; discussions in English. Open to students from diverse disciplines. (B)

Polish Cultural Studies in English (POL)

2710. Survey of Polish Culture. Cr. 3

Introductory cultural survey from beginnings of Polish state to present. Polish society and cultural developments analyzed in comparative contexts. (Y)

2750. Survey of Polish Literature in Translation. Cr. 3

Survey of Polish literature from the Renaissance to the modern period. (I)

3410. (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410)(GER 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. Team taught by specialists in the Department. (F)

3700. (SLA 3700) The Changing Face of Europe. (ARM 3700)(GER 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)

3710. (SLA 3710) Russian and East European Film. (RUS 3710)(UKR 3710)(ARM 3710). Cr. 3

Major Russian, Polish, Czech, Ukrainian and Armenian films viewed and discussed from political, cultural and aesthetic points of view. (Y)

Russian Cultural Studies in English (RUS)

2700. (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature. (SPA 2700)(FRE 2700)(ITA 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. (W)

3410. (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410)(GER 3410)(POL 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. Team taught by specialists in the Department. (F)

3510. (FC) Study of Russian Culture. Cr. 3

Basic features of Russia's cultural heritage. Impact of Gorbachev's *glasnost* and *perestroika* on Soviet political and economic structures and on everyday life; emerging trends. (Y)

3600. (PL) Nineteenth Century Russian Literature in English. Cr. 3

Russian society, culture, and politics studied through lives and works of Pushkin, Dostoevsky, Tolstoy, and others. How literature reflects and grows out of history; how culture is affected by writers and poets. Taught in English; readings in English. (F)

3650. (PL) Literary Masterpieces: Love, War and Revolution. 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. (W)

3700. (SLA 3700) The Changing Face of Europe.
(ARM 3700)(GER 3700)(POL 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)

3710. (SLA 3710) Russian and East European Film.
(UKR 3710)(POL 3710)(ARM 3710). Cr. 3

Major Russian, Polish, Czech, Ukrainian and Armenian films viewed and discussed from political, cultural and aesthetic points of view.(Y)

Slavic Cultural Studies in English (SLA)

1050. (GER 1050) (CT) Critical Thinking: Issues in German and Slavic Cultures. Cr. 3

Explicit instruction in critical thinking skills and application of those skills to topics related to the German and Slavic countries as well as to individual student lives. (T)

2310. (GER 2310) (PL) Short Fiction from Central Europe and Russia. 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. (F)

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. Team taught by specialists in the Department; in English. (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)

3710. Russian and East European Film. (RUS 3710)
(UKR 3710)(POL 3710)(ARM 3710). Cr. 3

Major Russian, Polish, Czech, Ukrainian and Armenian films viewed and discussed from political, cultural and aesthetic points of view.(Y)

5400. Cultural Studies and Criticism. (SLA 7400). 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 (UKR)

3410. (SLA 3410) (FC) New Soil, Old Roots: The Immigrant Experience. (ARM 3410)(GER 3410)(POL 3410)
(RUS 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. Team taught by specialists in the Department; in English. (F)

3700. (SLA 3700) The Changing Face of Europe.
(ARM 3700)(GER 3700)(POL 3700)(RUS 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)

3710. (SLA 3710) Russian and East European Film.
(RUS 3710)(POL 3710)(ARM 3710). Cr. 3

Major Russian, Polish, Czech, Ukrainian and Armenian films viewed and discussed from political, cultural and aesthetic points of view.(Y)

FOREIGN LANGUAGE INSTRUCTION

For courses on culture and literature taught in English, see the preceding section.

ARMENIAN (ARM)

1010. Elementary Armenian. Cr. 4

Material fee as indicated in *Schedule of Classes*. Introduction to sounds, spelling, speaking, reading, writing, grammar; emphasis on ability to speak and read Armenian. Introduction to ancient Armenian culture. (F)

1020. Elementary Armenian. Cr. 4

Prereq: ARM 1010 or equiv. Material fee as indicated in *Schedule of Classes*. Continuation of ARM 1010. Introduction to medieval Armenian culture. (W)

2010. (FC) Intermediate Armenian. Cr. 4

Prereq: ARM 1020 or equiv. Material fee as indicated in *Schedule of Classes*. Conversation, grammar, reading, composition. Introduction to modern Armenian culture. (F)

5990. Directed Study. Cr. 1-3(Max. 12)

Prereq: ARM 2010 or equiv., written consent of chairperson. Undergraduate credit only. Further study in Armenian language or literature. (T)

GERMAN (GER)

1010. Elementary German. Cr. 4

Material fee as indicated in *Schedule of Classes*. Development of ability to speak and read German. (T)

1020. Elementary German. Cr. 4

Prereq: GER 1010 or placement. Material fee as indicated in *Schedule of Classes*. Continuation of GER 1010. (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)

2010. (FC) Intermediate German. Cr. 4

Prereq: GER 1020 or placement. Material fee as indicated in *Schedule of Classes*. Continuation of GER 1020. Reading of graded German literature and grammar review. (T)

2020. Intermediate German. Cr. 4

Prereq: GER 2010 or equiv. Continuation of GER 2010. (T)

3100. Intermediate Composition and Conversation I. Cr. 3

Prereq: GER 2020 or equiv. German of common usage. Practical approach to contemporary idioms. (F)

3200. Intermediate Composition and Conversation II. Cr. 3

Prereq: GER 2020 or equiv. German of common usage. Practical approach to contemporary idioms. (W)

- 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. (B)
- 4600. Proseminar: Modern German Literature. Cr. 3** (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. (Y)
- 5300. Children's Literature and Culture. (GER 7300). Cr. 3-4**
Historical, cultural and critical aspects of German children's literature; includes works for young children and adolescents. (I)
- 5390. Exile and Holocaust. (GER 7390). Cr. 3-4**
Holocaust, from a literary and cultural perspective. (I)
- 5500. Pre-Modern 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)
- 5650. 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)
- 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**
Texts by minority writers in Germany construct new or non-German identities in response to cultural traditions reflected in the 'masterpieces' of German literature. Turkish, Jewish, Afro-German and Czech authors are examined in relation to canonical works which portray notions of non-German ethnic groups. (I)
- 5850. Second Language Instruction: Theory and Methods. (GER 7850)(FRE 5850)(SPA 5850)(FRE 7850)(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)
- 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: any 3000-, 4000-, 5000-, or 6000-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 (POL)

- 1000. Polish for Business and Travel. Cr. 2**
Ten-week practical introduction to Polish language and culture. Students learn to communicate in typical situations, while learning in English about the essentials of Polish Culture. For students of international business and others needing basic language and cultural survival skills. (Y)

- 1010. Elementary Polish. Cr. 4**
Material fee as indicated in *Schedule of Classes*. Sounds, spelling, vocabulary, forms, syntax as basis for reading and conversation. (F)

- 1020. Elementary Polish. Cr. 4**
Prereq: POL 1010 or equiv. Material fee as indicated in *Schedule of Classes*. Continuation of POL 1010. (W)

- 2010. (FC) Intermediate Polish. Cr. 4**
Prereq: POL 1020 or equiv. Material fee as indicated in *Schedule of Classes*. Study in depth of structure, particularly syntax, based on reading. Oral and written practice. (F)

- 2060. Composition and Conversation. Cr. 1-4(Max. 8)**
Prereq: POL 2010 or placement examination. (Y)

- 3020. Intermediate Polish. Cr. 4**
Prereq: POL 2010 or equiv. Broader knowledge of Polish grammar and lexicon based on reading of Polish literature. (I)

- 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)

- 4450. Language Skills: Advanced Speaking and Writing. Cr. 4**
Prereq: POL 2060 or equiv. Intensive practical training in use of Polish idiom to achieve fluency of expression. (W)

- 4600. Major Polish Writers and Their Times. Cr. 3(Max. 6)**
Mickiewicz or Sienkiewicz: major works; contemporaries; impact on development of Polish literature. Topics to be announced in *Schedule of Classes*. (I)

- 5700. Genre in Polish Literature. Cr. 3(Max. 6)**
Prereq: POL 3020 or equiv. Development of a literary form: short story, poetry or literary criticism; emphasis on major exponents of the form. Topics to be announced in *Schedule of Classes*. (I)

- 5990. Directed Study. Cr. 1-3(Max. 12)**
Prereq: POL 3020 or equiv., written consent of chairperson. (T)

- 5993. (WI) Writing Intensive Course in Polish. Cr. 0**
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: any 3000-, 4000-, or 5000-level Polish 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)

RUSSIAN (RUS)

1010. Elementary Russian. Cr. 4

Material fee as indicated in *Schedule of Classes*. Development of practical skills in speaking, understanding, reading, and writing contemporary Russian. (F,W)

1020. Elementary Russian. Cr. 4

Prereq: RUS 1010 or equiv. Material fee as indicated in *Schedule of Classes*. Continuing development of the four skills in contemporary Russian. (F,W)

2010. (FC) Intermediate Russian. Cr. 4

Prereq: RUS 1020 or equiv. Material fee as indicated in *Schedule of Classes*. Continuation of RUS 1020 with emphasis on developing speaking and reading skills. (F,W)

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. (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

Prereq: consent of instructor. 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)

SLAVIC (SLA)

4998. Honors Thesis in German and Slavic Languages and Literatures. Cr. 3-6

Prereq: senior standing; 3.3 h.p.a. Open only to majors in German and Slavic languages. Thesis problem to be completed under direction of faculty member. (T)

UKRAINIAN (UKR)

1010. Elementary Ukrainian. Cr. 4

Material fee as indicated in *Schedule of Classes*. Sounds, spelling, vocabulary, forms, syntax as a basis for reading and conversation. (F)

1020. Elementary Ukrainian. Cr. 4

Prereq: UKR 1010 or equiv. Material fee as indicated in *Schedule of Classes*. Continuation of UKR 1010. (W)

2010. (FC) Intermediate Ukrainian. Cr. 4

Prereq: UKR 1020 or equiv. Material fee as indicated in *Schedule of Classes*. Study in-depth of structure and syntax based on reading. Oral and written practice. (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. (F,W)

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. (F,W)



HISTORY

Office: 3094 Faculty/Administration Building; 577-2525;
Fax: 577-6987

Chairperson: Marc Kruman

Professors

Thomas N. Bonner, John J. Bukowczyk, William J. Brazill, Jr., R. V. Burks (Emeritus), Corinne Gilb (Emerita), Edwin C. Hall (Emeritus), Charles K. Hyde, Christopher H. Johnson, Marc W. Kruman, Philip P. Mason, Harry J. Magoulias (Emeritus), Alan Raucher, Monica Schuler, Samuel F. Scott, Melvin Small, Richard Studing, David Weinberg

Associate Professors

Effie Ambler, Marc Cogan, Elizabeth Faue, Stanley Shapiro, Stanley D. Solvick (Emeritus), Sandra VanBurklee

Assistant Professors

Robert Jefferson, Osumaka Likaka, Joseph Ward

Degree Programs

BACHELOR OF ARTS with a major in history

**MASTER OF ARTS with a major in history*

**DOCTOR OF PHILOSOPHY with specializations in
America and Europe*

**GRADUATE CERTIFICATE in Archival Administration*

Historical studies have long been one of the cornerstones of a liberal education. Through the record of our own past and that of other cultures, we learn who we are and how our institutions developed. We study history to learn about the past, to understand the present, and perhaps, to discover clues as to what the future may hold. A broad discipline, history deals with all of humankind's activities, including war and peace, regions, nations, communities and individuals, technology, science, culture, the arts, and religions. With its emphasis on reading in the primary sources and good writing, the study of history in the undergraduate years is good preparation for careers in business or government, and for law and other graduate schools.

Bachelor of Arts with a Major in History

Admission requirements for this program are satisfied by the 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 217) and the University General Education Requirements (see page 26), 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 pages 15-45, and 217-221, respectively. The minimum requirement for a major in history is thirty-three credits, distributed according to the following five requirements:

Major Requirements in History

1) A survey sequence consisting of two courses chosen from one of the following groups:

HIS 1100 - 1200 - 1600 - 1610

HIS 1200 - 1300 - 1400 - 1610

HIS 1300 - 1400 - 2040 - 2050

2) A minimum of eighteen credits in upper division coursework consisting of at least five HIS courses numbered 3000 or above (excluding HIS 4990, 4997, and 5993).

3) Diversity of regional content reflected by selection of two courses in European history, two courses in American history, and one additional course in any non-U.S. area.

4) Distribution of chronological content reflected by selection of two courses in the pre-1789 period and two courses in the post-1789 period. Any course with both pre- and post 1789 content may only be counted as satisfying requirements for one period.

5) A knowledge assessment interview is required of all students who declare history as a major. HIS 5993 (Writing Intensive Course in History) is required of all students responsible for completing the University General Education Requirements.

Department advisers will help each student plan a program to fit his/her particular needs and background. A maximum of sixteen credits satisfying the major requirements may be transferred from other institutions.

Recommended Cognate Courses: Among recommended cognates for history majors are courses in anthropology, economics, English, geography, political science, and sociology. The history of philosophy, the history of art, and the history of music are also appropriate electives.

Cognate In Business: Many history majors pursue careers in business and industry. It is possible to arrange a coherent cognate of several courses in the School of Business Administration that enhances the preparation of history majors for potential employment in business and industry, and also may serve as background for an M.B.A. program. Interested students should consult advisers in the School of Business Administration for assistance in constructing the cognate.

Pre-Law Program: The following courses are strongly recommended for pre-law students: History 5090, 5160, 5170, and 5280 (see also suggested pre-law curriculum in the Liberal Arts Undergraduate Curricula, page 222).

Honors Program in History

The History Department offers a Bachelor of Arts degree 'With Honors in History.' Qualified students planning post-baccalaureate work in history or in a professional school are especially encouraged to obtain an Honors degree. Honors majors must have a 3.5 honor point average (h.p.a.) in history courses and a 3.3 cumulative h.p.a. in all courses, as well as a grade of 'B' or better in the History Honors Seminar (History 5995). To be admitted to the Honors Seminar, the student must have completed twenty-four credits in history courses, nine of which must be at or above the 3000 level, and must have a 3.2 h.p.a. in history courses and a 3.3 cumulative h.p.a. Students are expected to write an approved Honors Thesis as part of this seminar. Honors majors must also take at least one 4000-level seminar offered by the College's Honors Program, and accumulate at least fifteen credits in honors-designated course work, from any of the departments of the College, including History 5995 and the Honors Program Seminar. For additional information on honors-designated course work available each semester, see the Liberal Arts section of the University *Schedule of Classes* under 'Honors Program,' or consult the Director of the Honors Program (577-3030).

* For specific requirements, consult the Wayne State University Graduate Bulletin.

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 higher.

'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.

Rolf and Jennie Johannesen Memorial Scholarship: Undergraduate and graduate majors with an expressed interest in classical civilization and its influence on culture and history from the Middle Ages to the present are eligible for this scholarship. The Department makes at least one annual award of not less than \$500 based on the merits of applicants' research papers.

F. Richard Place Memorial Scholarship: Undergraduate History majors who have completed the Writing Intensive requirement are eligible for this scholarship. The Department makes at least one annual award based on the merits of applicants' research papers and academic records. Although the amount of awards depends on funds available, it is usually not less than \$500.

UNDERGRADUATE COURSES (HIS)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99*. In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

1030. History of American Political Institutions. Cr. 4

A historical survey of the development since colonial times of American municipal, state, and national government. Special attention to federalism, separation of powers, citizenship, and the two-party system. (I)

1050. 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 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. (F,W)

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. (F,W)

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)

1991. (CBS 2450) Latin America from Independence to the Present. Cr. 3

Historical overview of modern and contemporary Latin America from early 1800s to the present. Themes include nation-formation, revolutions, nationalism, development, dependency, U.S. involvement. (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)
- 2000. (U S 2000) (SS) Introduction to Urban Studies. (GPH 2000)(SOC 2500)(P S 2000). 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. (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. (Y)
- 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 3950. 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. (SOC 2050) (P S 2550). 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. (GPH 2700)(ENG 2670). 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. The Black Experience in America II: 1865 to the Present. (AFS 3150). Cr. 3-4**
The black in national life since emancipation. (W)
- 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 relationship, 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)
- 3310. (N E 3310) History and Civilization of the Ancient Near East I. Cr. 3**
Survey of the history of the Ancient Near East from the beginning of civilization to Cyrus the Great; emphasis on history of Mesopotamia and Egypt, rise and fall of their dynasties and empires, and their impact on the rest of the Near East, especially Ancient Israel. (I)
- 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)
- 3350. Revolution in the Modern World: 1750 to the Present. Cr. 3**
Comparative survey of modern revolutionary upheaval focusing on liberal-democratic revolutions of the eighteenth and nineteenth centuries, socialist revolutions of the first half of the twentieth century, and Third-World revolutions of the post-1945 era. (B)
- 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)
- 3450. Canadian-American Relations: 1763 to the Present. Cr. 3**
History of diplomatic, political, economic and cultural relations of Canada and the United States from the French and Indian War to the present. (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)
- 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*. (F,W)

- 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. (B)
- 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)
- 5080. Disease, Drugs and Doctors Since 1650. (HIS 7080). Cr. 4**
Survey of health conditions, medical theories, and the professional development of medicine from the period of colonial settlement, through the social and scientific changes of the nineteenth century, to the problems and issues of twentieth-century health delivery. (I)
- 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. (P S 6050)(SOC 7330)(U P 7030)(AFS 6100). 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)
- 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)
- 5310. Social Justice in America. (HIS 7310). Cr. 4**
Prereq: junior standing. History of Anglo–American criminal justice system from English roots to the Omnibus Crime Control Act of 1968. Major components of criminal justice will be examined: law, courts, police, corrections, juvenile justice. Changing perspectives of deviance; violence in American history. (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)
- 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 century that altered the course of French and European development and laid the basis for political modernization. (Y)
- 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. (B)
- 5450. Europe in the Interwar Era: The Age of Ideology. Cr. 4**
Social and cultural trends in modern European society; emphasis on ideological struggles of the 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**
The 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)
- 5470. Modern Germany. (HIS 7470). Cr. 3–4**
The history of modern Germany against the background of its tradition and culture. Concentration on the Prussian–Austrian conflict, the emergence of German intellectual life, unification and modernization, and the crises and wars of the twentieth century. (I)
- 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)
- 5630. Socialism and the European Labor Movement. (HIS 7630). Cr. 3**
Comparative labor history from 1850 to the present; Utopian socialism, Marxism, anarchism, syndicalism, communism, fascism; contemporary trends. (B)
- 5660. France Since 1815. (HIS 7660). Cr. 3**
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. (B)
- 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 nationalism. (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)
- 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)

HONORS PROGRAM

Office: 2311 Faculty/Administration Building; 577-3030

Director: Stanley Shapiro; 3139 Faculty/Administration Building;
577-6146

Adviser: Karen M. Gurney, 2136 Helen Newberry Joy Student
Services Center; 577-2680

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 full-time members of the regular faculty.

Eligibility: To enroll in honors courses, students must have at least a 3.0 cumulative honor point average at Wayne State University. Entering freshmen should have a high school honor point average of at least 3.5, and students transferring from a community college a 3.3 h.p.a. Continuing students with a 3.3 h.p.a. or better for twenty-four successive credits are also eligible to enter the Honors Program. No application procedure is necessary to take honors courses. Students may take as few 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 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 26).

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 fifteen credits in honors-designated course work, including (2) a senior essay or thesis done in the student's major department, and (3) at least one 4200-level seminar offered through the Honors Program (HON 4200-4280). An h.p.a. of 3.3 (higher in some departments) is required for graduation as well. Any honors-designated course work may be included in the fifteen honors credits.

Students pursuing a degree with *University Honors* will follow a course of study consisting of (1) at least thirty credits in honors-designated course work, including (2) a senior thesis or essay, and (3) one 4200-level seminar offered by the Honors Program (HON 4200-4280). An h.p.a. of 3.3 or higher is required for graduation. Any honors designated course work may be included in the thirty honors credits.

A student who satisfactorily completes a Departmental Honors curriculum or the University Honors Program 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), and the opportunity to participate in honors student groups.

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*. Departmental honors thesis or essay courses are listed only under the respective departmental headings in this Bulletin and the *Schedule of Classes*. For a description of the following courses, see the appropriate Departmental sections of this Bulletin.

ANT 3110	Detroit Area Minorities: Arabs, Hispanics, and African Americans
ANT 4990	Honors Program in Anthropology
ANT 4998	Honors Research Thesis
ANT 4999	Honors Thesis
AH 1120	(VP) Renaissance through Modern Art Survey
BIO 1030	(LS) Environmental Biology
BIO 1050	(LS) An Introduction to Life
BIO 1500	Basic Biology
BIO 1510	(LS) Basic Life Mechanisms
BIO 6990	Honors Directed Study in Biology
BIO 6997	Senior Seminar: Honors Program
BIO 6999	Terminal Essay: Honors Program
CHM 1310	(PS) Chemical Principles and Analysis I
CHM 1320	Chemical Principles and Analysis II
CHM 2310	Organic Structure and Reactions
CHM 2320	Organic Synthesis and Spectroscopy
CHM 5998	Honors Thesis Research in Chemistry
CLA 2000	Greek Mythology
CLA 2100	(PL) Honors Classical Origins of Western Thought
CRJ 4998	Honors Thesis in Criminal Justice
CSC 4999	Honors Thesis
ECO 2010	(SS) Principles of Microeconomics
ECO 2020	(SS) Principles of Macroeconomics
ECO 4997	Senior Honors Seminar
ENG 1050	(BC) Freshman Honors: English I
ENG 2050	(IC) Freshman Honors: English II
ENG 4990	Directed Study: Honors Program
ENG 4991	Honors Seminar
ENG 4992	Honors Project
FRE 2700	(PL) Anguish and Commitment: European Existentialist Literature
GER 2700	(PL) Anguish and Commitment: European Existentialist Literature
GPH 4990	Directed Study: Honors Program
HIS 1300	(HS) Europe and the World: 1500-1945
HIS 1400	(HS) The World Since 1945
HIS 5995	Honors Seminar
HUM 2200	(PL) Sophomore Honors Colloquium in Humanities
HUM 2220	(PL) Constructs of Human Experience: Histories, Novels, Philosophies
HUM 3030	Music-Theatre-Cinema
ITA 2700	(PL) Anguish and Commitment: European Existentialist Literature
MAT 2010	Calculus I
MAT 2020	Calculus II
MAT 2030	Calculus III
MAT 2350	Elementary Differential Equations
NFS 2210	Human Nutrition
NFS 5990	Honors Directed Study
PHI 1020	(PL) Honors Introduction to Philosophical Systems
PHI 1860	Honors Introductory Symbolic Logic
PHI 2320	(PL) Introduction to Ethics
PHI 3550	(PL) Metaphysics
PHI 3600	Space, Time and the Philosophy of Physics
PHI 4870	Honors Directed Reading
PHI 4890	Honors Proseminar
PHY 1040	Einstein, Relativity and Quanta
P S 1010	(AI) American Government
P S 2810	World Politics
P S 4992	Senior Honors Seminar
P S 4995	Senior Honors Paper
PSY 1010	(LS) Introductory Psychology
PSY 2080	Introduction to Drugs, Behavior and Society
PSY 2600	Psychology of Social Behavior
PSY 3310	Abnormal Psychology
PSY 4991	Honors Directed Study
RUS 2700	(PL) Anguish and Commitment: European Existentialist Literature
SOC 4999	Honors Thesis in Sociology

SOC 5870	Violence in the Family
SPA 2700	(PL) Anguish and Commitment: European Existentialist Literature
SPB 1010	(OC) Oral Communication: Basic Speech
UGE 1000	(GE) The University and Its Libraries

Honors-Option Coursework

The Honors Option allows a student in any course above the 1000 introductory level taught by a full-time 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, 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 second week of classes. The completed form must then be returned to the Honors Program Office at the end of the semester.

COURSES OF INSTRUCTION (HON)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

The following courses, numbered 0900–6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 487.

2100. (CLA 2100) (PL) Honors Classical Origins of Western Thought. Cr. 3

Prereq: minimum 3.0 cumulative h.p.a. 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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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: written consent of director.

4998. University Honors Thesis. Cr. 3–6

Prereq: junior or senior standing. Open only to University honors students. For students not concurrently in departmental/college Honors program. (T)

HUMANITIES

Office: Room 4228, 51 West Warren; 577-3035

Director: Richard P. Studing

Professors

Bernard M. Goldman (Emeritus), Martin M. Herman (Emeritus), Sara E. Leopold (Emerita), Richard P. Studing

Associate Professors

Marc Cogan, Nola H. Tutag (Emerita)

Following Winter Semester of 1994, the Humanities Department became a Program within the History Department, and ceased accepting majors. All students who were declared majors prior to that date will be given the opportunity to complete their degree requirements with a major in humanities.

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 26), and the College of Liberal Arts Group Requirements (see page 217).
2. Some may serve as electives or cognates for students majoring in other disciplines.



COURSES OF INSTRUCTION (HUM)

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All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

The following courses, numbered 0900–6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 487.

1010. (VP) Introduction to Art and Music in Western Civilization. Cr. 4

No credit for humanities majors. 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. (Fid: 1). Cr. 1(Max. 3)

Prereq. or coreq: HUM 1010, 1020, 1030, 2100, 2110, or 2210. Attending and reviewing assigned performances and exhibitions related to HUM 1010, HUM 1020, HUM 1030, HUM 2100, HUM 2110, or HUM 2210. (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)

2100. (PL) Humanities and the Western Tradition I: Antiquity to the Renaissance. Cr. 4

Examining relationships among the arts and connections between art and ideas from antiquity to the Renaissance. (F)

2110. Humanities and the Western Tradition II: Renaissance to the Present. Cr. 4

Examining relationships among the arts and connections between art and ideas from the Renaissance to the present. (W)

2200. (PL) Sophomore Honors Colloquium in Humanities. Cr. 4 (Max. 8)

Prereq: sophomore standing. Open only to students in Honors program. Topics to be announced in *Schedule of Classes*. (F)

2210. Medium, Form and Meaning in the Arts. Cr. 3

Major works of poetry, drama, art and music serve to demonstrate how medium, form, meaning and message act in concert. (Y)

2220. (PL) Constructs of Human Experience: Histories, Novels, Philosophies. Cr. 3-4

Examination of texts selected from the major categories of prose writing: history, narrative fiction and philosophy. Critical exploration and comparison of these categories as a means to fuller understanding. (W)

2500. Images of Labor in the Arts and Literature. (LBS 2500). Cr. 4

Diverse history of labor as reflected in the popular arts (films, songs, stories, and graphics). (T)

3030. Music - Theatre - Cinema: Imitation, Adaptation, Transformation. Cr. 3

Prereq: HUM 1020 or 2210 or equiv. Examining cycles of thematically related works for the purpose of studying the process of adaptation as it takes place through time and across expressive media. (B)

3100. Historical Epochs in Contrast. Cr. 3

Prereq: junior standing or above. Two historical-cultural periods are compared and contrasted from multidisciplinary and interdisciplinary perspectives: views of theology (God and religion) and human nature, artistic achievements, and concepts of history. Primary materials emphasized; examination of historical periodization and methodology. (F)

3990. Directed Study. Cr. 1-3(Max. 3)

Prereq: written consent of chairperson. Open primarily to junior and senior humanities majors. Advanced study in a particular area of the humanities. (T)

5330. Western Culture in the Classical Period. Cr. 3

Prereq: HUM 2100 and 2110 or equiv. Stylistic relationships among the arts; consideration of connections between the arts and such other forms of knowledge or experience as history, philosophy, religion, and science. (I)

5350. Western Culture in the Middle Ages. Cr. 3

Prereq: HUM 2100 and 2110 or equiv. Stylistic relationships among the arts; consideration of connections between the arts and such other forms of knowledge or experience as history, philosophy, religion and science. (I)

5380. Western Culture in the Romantic Period. Cr. 3

Prereq: HUM 2100 and 2110 or equiv. Stylistic relationships among the arts; consideration of connections between the arts and such other forms of knowledge or experience as history, philosophy, religion, and science. (I)

5993. (W) Writing Intensive Course in Humanities. Cr. 0

Prereq: junior standing; satisfactory completion of English Proficiency Examination; consent of instructor; coreq: HUM 5330, 5350, 5360, 5370, 5380, 5390, 5750 or 5760. 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)

INTERNATIONAL STUDIES

Office: 355 Manoogian Hall; 577-8072; Fax: 577-2738

Program Director: Bruce S. Morgan

Advisory Committee

Africana Studies: Eboe Hutchful

Anthropology: Mark L. Weiss

Economics: Allen C. Goodman

English: Renata M. Wasserman

German and Slavic Studies: Donald Haase

History: Alan Raucher

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 a list of elective courses for this program, contact Dr. Bruce Morgan (577-8072).

<i>Core Requirements</i>	<i>credits</i>
ANT 3100 — Cultures of the World	3-4
GPH 1100— (SS) World Regional Patterns	4-5
LIN 2730 — (ENG 2730) Languages of the World	3
P S 2710 or P S 2810	
— Introduction to Comparative Politics	4
— World Politics	4
ECO 1300 or HIS 1400	
— Economic Issues of Canada, Mexico, and the United States	3
— (HS) The World Since 1945	3-4

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: 171 Law School Annex; 577-3947

Director: John Friedl

Advisory Committee

Ernest L. Abel, *Medicine*
 Susan P. Fino, *Political Science*
 Jacqueline Huey, *Sociology*
 Frederica B. Lombard, *Law*
 John R. Reed, *English*
 Albert D. Spalding, Jr., *Accounting*
 Sandra F. VanBurkleo, *History*

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; 3) at least three courses from Group I; 4) at least two courses from Group II; and 5) not more than one course from Group III.

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)

ECO 5250 — Economic Analysis of Law	4
HIS 5280 — American Legal History (HIS 7280)	4
LGS 2010 — Introduction to Legal Studies (required course)	3
LGS 5999 — Seminar in Legal Studies	3
P S 3100 — American Legal Systems and Processes	4
SOC 5810 — Law in Human Society (CRJ 5810)	3

Group II (two courses must be elected from this group)

AGS 3060 — Law: Analysis and Writing	4
AFS 3860 — Race, Class, and the Criminal Justice System (SOC 3860)	3
AFS 5580 — Law and the African American Experience (SOC 5580)	4
ANT 6170 — Political Anthropology	3
CLA 3100 — Law and Ancient Society	3-4
CRJ 1010 — Introduction to the Criminal Justice System	4
CRJ 3120 — Politics of the Criminal Justice Process (P S 3120)	4
CRJ 4300 — Penology: Punishment and Corrections (SOC 3840)	3
CRJ 4400 — Introduction to the Judicial Process	4
CRJ 4800 — (SOC 4800) Outsiders, Outcasts and Social Deviants	3
CRJ 5060 — Comparative Criminal Justice Systems	3
CRJ 5994 — (PCS 5000) Dispute Resolution (P S 5890) (PSY 5710)	3
CRJ 6860 — (SOC 6860) Organized Crime: Its History and Social Structure	3
ECO 5200 — Regulation and Regulated Industries	4
ECO 5210 — Market Power and Economic Welfare	4

ECO 5500 — Public Finance: Taxation and Expenditure Theory	4
ECO 5510 — Public Choice	4
ECO 5520 — State and Local Public Finance (U P 6750)	4
HIS 2500 — (PCS 2000) Introduction to Peace and Conflict Studies (P S 2820)	3
HIS 5090 — Constitutional History of the U.S. from 1937 to the Present (HIS 7090)	3
HIS 5160 — Constitutional History of the United States to 1860 (HIS 7160)	4
HIS 5170 — Constitutional History of the United States from 1860 to 1940 (HIS 7170)	4
HIS 5310 — Social Justice in America (HIS 7310)	4
PCS 2000 — Introduction to Peace and Conflict Studies (HIS 2500) (P S 2820)	3
PCS 5000 — Dispute Resolution (CRJ 5994) (P S 5890) (PSY 5710)	3
PHI 1100 — (PL) Contemporary Moral Issues	3
PHI 2320 — (PL) Introduction to Ethics	3-4
PHI 5280 — History of Ethics	4
PHI 5300 — Twentieth Century Analytic Ethics	4
P S 2802 — (PCS 2000) Introduction to Peace and Conflict Studies (HIS 2500)	3
P S 3110 — Politics and Local Justice	4
P S 3120 — (CRJ 3120) Politics of the Criminal Justice Process	4
P S 3510 — (PL) Law, Authority and Rebellion	4
P S 3520 — (PL) Justice	4
P S 5820 — International Law	4
P S 5890 — (PCS 5000) Dispute Resolution (CRJ 5994) (PSY 5710)	3
PSY 5710 — (PCS 5000) Dispute Resolution (CRJ 5994) (P S 5890)	3
SOC 3820 — Theories of Crime and Delinquency	3
SOC 3840 — (CRJ 4300) Penology: Punishment and Corrections	4
SOC 3860 — (AFS 3860) Race, Class, and the Criminal Justice System	3
SOC 4800 — Outsiders, Outcasts, and Social Deviants (CRJ 4800)	3
SOC 5580 — (AFS 5580) Law and the African American Experience	4
SOC 6860 — Organized Crime: Its History and Social Structure (CRJ 6860)	3
SPC 2110 — (CT) Argumentation and Debate	3
U P 6750 — (ECO 5520) State and Local Finance	4

Group III (not more than one course may be elected from this group)

ACC 3510 — Business Law I	3
ACC 5170 — Taxes on Income	3
ACC 5190 — Business Law II	3
C E 5810 — Legal Aspects of Engineering Problems	3
CRJ 4410 — The Juvenile Justice System	4
CRJ 5710 — Constitutional Criminal Procedure	4
CRJ 5720 — Criminal Law	4
CRJ 6750 — Administrative Law in Criminal Justice	3
FPC 5020 — Legal Environment of the Arts	3
GPH 5810 — (GEG 5810) Locational Issues in Hazardous Waste Mgt. (HWM 5810)	3
HPR 6640 — Legal Issues in Health, Phys. Ed. & Recreation	3
HWM 5540 — Law and Administration Issues in Hazardous Waste Management I	2
LBS 4500 — Applied Labor Studies: Labor Law	3
MGT 5740 — Collective Bargaining	3
PHI 1110 — Ethical Issues in Health Care	3
PPR 3120 — (WJ) Pharmacy and Jurisprudence	2
PPR 6100 — Legal Environment in Pharmacy	2-3
P S 3170 — The Living Constitution	4
P S 5110 — Constitutional Law	4
P S 5120 — Constitutional Rights and Liberties	4
P S 6120 — Administrative Law and Regulatory Politics	3
P S 6350 — Judicial Administration (CRJ 6350)	3
SPJ 5020 — History and Law of American Journalism	4
U P 5110 — Urban Planning Process	3-4
U P 6650 — Planning and Development Law	2-3

UNDERGRADUATE COURSES (LGS)

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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 487.

2010. Introduction to Legal Studies. Cr. 3

Nature of legal systems in human societies examined from interdisciplinary perspective. First part: legal theory; second part: law in practice; third part: solutions to disputes and internal conflict. (Y)

5999. Interdisciplinary Seminar in Legal Studies. Cr. 3

Prereq: LGS 2010 or consent of instructor. Primarily for seniors completing undergraduate minor in legal studies. Students conduct independent research study, applying methods and concepts from two or more disciplines. (Y)

LINGUISTICS

Office: Room 4025, 51 West Warren; 577-8642

Director: Martha Ratliff

Participating Faculty

Ellen Barton, *Associate Professor, English*

Lynn Bliss, *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*

Ljiljana Progovac, *Assistant Professor, English*

Martha Ratliff, *Associate Professor, English*

Aleya Rouchdy, *Professor, Near Eastern and Asian Studies*

Eli Saltz, *Professor, Psychology*

Patricia Siple, *Associate Professor, Psychology*

Rebecca Treiman, *Professor, Psychology*

Frances Trix, *Assistant Professor, Anthropology*

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. The program offers courses from the major areas of the field, including (a) the structural aspects of sentences (syntax), words (morphology), and speech sounds (phonology), (b) the historical development of language, (c) the semantic and pragmatic basis of language interpretation in sentences and discourses, (d) language variation and use in social contexts (sociolinguistics), (e) the processing and acquisition of language (psycholinguistics), and (f) the application of language to other areas of human knowledge.

Training in linguistics prepares students for advanced work in linguistic research, as well as for employment in teaching English and foreign languages; computer programming (especially in natural language processing); civil service and diplomatic work; broadcasting, mass media and public relations; and generally any profession requiring the precise use or the 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, consult the Wayne State University Graduate Bulletin.

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 26), the College Group Requirements (see page 387), 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 pages 15–45 and 387–392, respectively.

The bachelor of arts program consists of a core of linguistics courses which all majors must complete. In addition to the core courses, the student must pursue one of the following concentrations: a) Linguistics and a Language; b) Formal Linguistics: Syntax and Semantics; c) Psycholinguistics; d) Sociolinguistics; e) Individualized Program.

A student must complete a minimum of twenty-eight credits in core and concentration courses to satisfy the major requirements.

CORE COURSES:

	<i>credits</i>
LIN 5290—Phonology	3
LIN 5300—Theory of Syntax	3
LIN 5700—Introduction to Linguistic Theory	3

CONCENTRATIONS:

A. Linguistics and a Language

The student must complete fifteen credits in advanced language skills or in the linguistics of the chosen language beyond the basic courses. In addition, the student must elect an appropriate course in historical linguistics. The fifteen credits in advanced language skills should be planned in consultation with the adviser.

B. Formal Linguistics: Syntax and Semantics

Required Courses:

	<i>credits</i>
LIN 1850—Introductory Symbolic Logic	3
LIN 5570—Philosophy of Language	4
LIN 5720—Topics in Language: Morphology	3
LIN 5720—Topics in Language: Semantics	3

Elective courses to complete 28-credit major requirements:

LIN 5050—Advanced Symbolic Logic	4
LIN 5200—Modal Logic	4
LIN 5630—Twentieth Century Analytic Philosophy I	4
LIN 6710—Psycholinguistics	3
PHI 5350—Logical Systems I	4
PHI 5390—Logical Systems II	4
PHI 5640—Twentieth Century Analytic Philosophy II	4

C. Psycholinguistics

Required Courses:

LIN 3080—Cognitive Psychology: Fundamental Processes	3
LIN 6710—Psycholinguistics	3

Elective courses to complete 28-credit major requirements:

LIN 5080—Phonetics	3
LIN 6200—Development of Memory	3
PSY 3010—Statistical Methods in Psychology	4

PSY 4990—Directed Study and Research (credit max. 9)	2–4
PSY 6995—Advanced Special Topics (elect with consent of adviser)	3

D. Sociolinguistics

Required Courses:

LIN 5310 or LIN 5760	
—Language and Culture	3
—American Dialects	3
LIN 5320 or LIN 5770	
—Language and Society	3
—Sociolinguistics	3

Elective courses to complete 28-credit major requirements:

LIN 5760—American Dialects	3
LIN 5770—Sociolinguistics	3
LIN 6710—Psycholinguistics	3
SPC 5040—Rhetoric of Racism	3
SOC 4100—(SS) Social Psychology	3
SOC 6280—Social Statistics	4
ANT 5200—Social Anthropology	3
ENG 5600—Studies in Folklore	3

E. Individualized Program

A student may design concentrations to meet an individualized program. Plans of work for special concentrations must be approved by the Committee for the Linguistics Program before the student has completed a maximum of twelve credits in the major.

Minor in Linguistics

The minor in linguistics requires at least six courses for a total of eighteen credits. These courses must include:

	<i>credits</i>
LIN 5290—Phonology	3
LIN 5300—Theory of Syntax	3
LIN 5700—Introduction to Linguistic Theory	3

The other three courses must be either (a) all from one of the four areas of concentration (A, B, C, or D, above); or (b) all LIN courses from departments in the College of Science or the College of Liberal Arts.

UNDERGRADUATE COURSES (LIN)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.)—*except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the

Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

1700. (ENG 1700) English Grammar. 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)

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 metatheory of propositional and first-order logic; some additional advanced topics to be selected by the instructor. (Y)

5080. (SLP 5080) Phonetics. (SED 5320). Cr. 3

Multisensory study of sounds in the English language, emphasizing acoustic, physiologic, kinesiologic approaches. (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. 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. Cr. 3

Prereq: ARB 2020 or consent of instructor. 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) Theory of 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 S S 1910 or SOC 2010 or consent of instructor. An introduction to the structure of language and to the ways that humans use language in the construction of human worlds. Diversity of the world's languages and universal properties of language will be discussed. Theories of language change will be introduced. (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; research in language in societies. (W)

5360. (SLP 5320) Normal Language Acquisition and Usage. (SED 5360). Cr. 3

Language development in children and the associated areas of emotional and motor development; language stimulation techniques and programs. (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)

5630. (PHI 5630) Twentieth Century Analytic Philosophy I. Cr. 4

Prereq: PHI 1850 or PHI 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. (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)

5750. (ENG 5750) Theory of English as a Second Language. Cr. 3

Detailed examination of theories of language and language acquisition relevant to the non-native speaker of English. Review of research in language acquisition and language learning. (I)

5770. (ENG 5770) Sociolinguistics. 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)

5993. (WI) Writing Intensive Course in Linguistics. Cr. 0

Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: LIN 5290, or 5720, or 5770, or 5300. 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. Intensive training in literature search, linguistic analysis, and the preparation of scholarly written work. (T)

6200. (PSY 6200) Development of Memory. Cr. 3

Prereq: PSY 3090 and PSY 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. (I)

6710. (PSY 6710) Psycholinguistics. Cr. 3

Prereq: graduate standing or undergraduates with a strong psychology or linguistics background. Theory and research in various topics in psycholinguistics, including language development, speech perception and production, and language comprehension and memory, discussed within the framework of the behaviorist, generative linguistic and information processing approaches to language. (Y)



NEAR EASTERN and ASIAN STUDIES

Office: 437 Manoogian; 577-3015

Chairperson: Aleya A. Rouchdy

Professor

Aleya A. Rouchdy

Associate Professors

Sherman Jackson, May Seikaly

Degree Programs

BACHELOR OF ARTS with a major in Near Eastern languages

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.

Bachelor of Arts Degrees

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 217) and the University General Education Requirements (see page 26), 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 pages 15-45 and 217-221, respectively.

Major Requirements

Near Eastern Languages: A major 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 Eastern history.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

Near Eastern Studies: A major 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: (1) 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-five credits. These include at least sixteen credits in either Arabic or Hebrew, taking the 1010-1020, 2010-2020 sequence in either language. In addition, the student must take at least nine credits in cognate courses offered by the Department in the fields of ancient Near Eastern, Judaic, or Arab/Islamic and Middle Eastern history, anthropology, or civilization.

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 honor 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.

UNDERGRADUATE COURSES

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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 487.

Arabic (ARB)

1010. Elementary Arabic I. Cr. 4

Material fee as indicated in *Schedule of Classes*. Vocabulary, forms, syntax, graded readings. (F)

1020. Elementary Arabic II. Cr. 4

Prereq: ARB 1010 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Continuation of ARB 1010. (W)

2010. (FC) Intermediate Arabic I. Cr. 4

Prereq: ARB 1020 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Continuation of grammar, readings in classical and modern prose. (F)

2020. Intermediate Arabic II. Cr. 4

Prereq: ARB 2010 or consent of instructor. Continuation of ARB 2010. (W)

3990. Directed Study. Cr. 1-6(Max. 9)

Prereq: consent of chairperson. Readings, periodic reports and consultations. (T)

5010. Medieval Arabic Texts. Cr. 3

Prereq: ARB 2010 or consent of instructor. Reading and translation of Arabic Medieval texts. (Y)

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). 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). Cr. 3

Prereq: ARB 2020 or consent of instructor. 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 and written consent of graduate officer. Readings; periodic consultations and reports. (T)

Asian (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 (CHI)

1010. Elementary Chinese. 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)

2010. Intermediate Chinese. Cr. 4

Prereq: CHI 1020 or consent of instructor. Completion of Chinese language sequence; insights into Chinese culture. (Y)

Hebrew (HEB)

1010. Elementary Hebrew I. Cr. 4

Material fee as indicated in *Schedule of Classes*. Grammar, vocabulary, graded readings, discussions. (F)

1020. Elementary Hebrew II. Cr. 4

Prereq: HEB 1010 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Continuation of HEB 1010. (W)

2010. (FC) Intermediate Hebrew I. Cr. 4

Prereq: HEB 1020 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Review of grammar, readings in modern Hebrew texts. (F)

2020. Intermediate Hebrew II. Cr. 4

Prereq: HEB 2010 or consent of instructor. Continuation of HEB 2010. (W)

2040. Survey of Modern Hebrew Literature In English. Cr. 3

Readings and analysis of major Hebrew authors in English translation from the end of the nineteenth century to the present. Literary, philosophical and historical influences on writers and their work. (Y)

3990. Directed Study. Cr. 1–4

Prereq: consent of chairperson. Readings; consultations and reports. (T)

5990. Directed Study. Cr. 3–6(Max. 9)

Prereq: undergrad., consent of chairperson; grad., consent of chairperson and graduate officer. Readings; consultations, reports. (T)

Japanese (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)

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 (NE)

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 their 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)

2700. Topics in Middle Eastern Studies. Cr. 1–4

Specialized topics related to the Middle East: language, literature, etc. (Y)

3030. 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)

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)

3310. History and Civilization of the Ancient Near East I. (HIS 3310). Cr. 3

Survey of history of the ancient Near East from the beginning of civilization to Cyrus the Great; emphasis on history of Mesopotamia and Egypt, rise and fall of their dynasties and empires, and their impact on the rest of the Near East, especially Ancient Israel. (I)

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)

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)

5700. Topics In Middle Eastern Studies. Cr. 1-4(Max. 8)

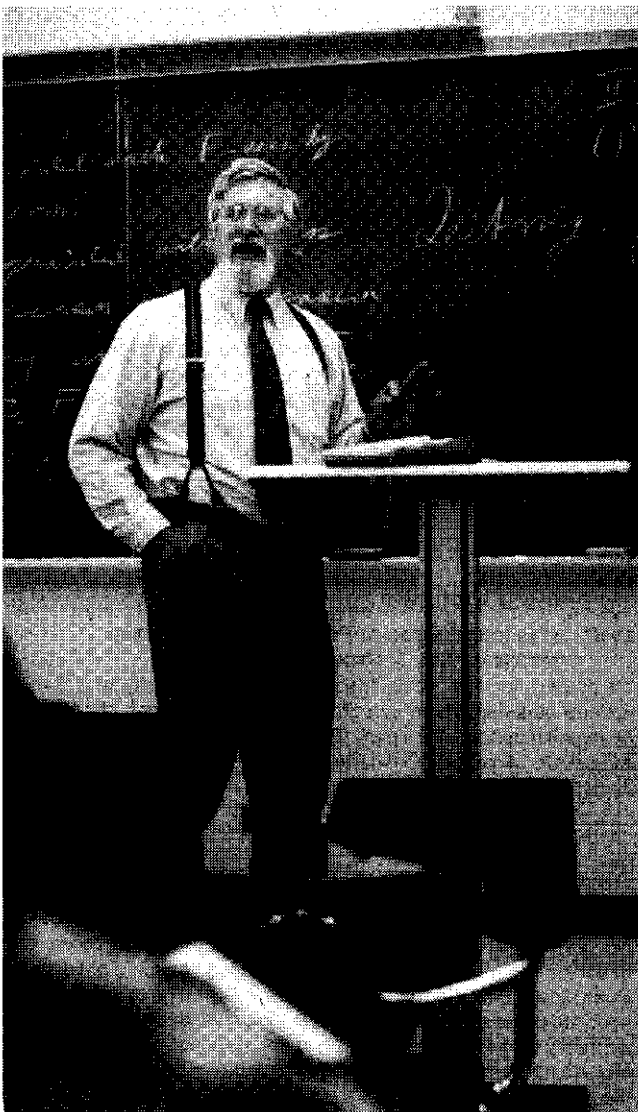
Specialized and topical studies in Middle East events, language, and literature. (Y)

5990. Directed Study. Cr. 3-6 (Max. 9)

Prereq: undergrad., consent of chairperson; grad., consent of chairperson and graduate officer. Readings, consultations, reports. (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. (T)



PHILOSOPHY

Office: 51 West Warren; 577-2474

Chairperson: Lawrence B. Lombard

Professors

Richard B. Angell (Emeritus), Lawrence B. Lombard, T. Michael McKinsey, Bruce Russell, Robert J. Yanal

Associate Professors

Herbert Granger, Barbara M. Humphries, , Lawrence Powers, William D. Stine, Robert J. Titiev

Assistant Professor

Susan Vineberg

Lecturer

Jana Craig

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 217) and the University General Education Requirements (see page 26), 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 pages 15-45 and 217-221, respectively.

* For specific requirements, consult 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 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);
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 any of 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 honor 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 4807 and 4890 and the 4000-level Honors Program Seminar.

At graduation, the overall honor 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 282).

1. *History of Philosophy group:* PHI 2100 (or 5410, or 5420) or PHI 2110 (or 5450, or 5460).
2. *Symbolic Logic group:* PHI 1850 or 1860.
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.

UNDERGRADUATE COURSES (PHI)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

Introductory Courses

1010. (PL) Introduction to Philosophical Systems.
(Lct: 3; or Lct: 3; Dsc: 1). Cr. 3–4

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; nuclear deterrence and strategic defense. (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)

1860. Honors Introductory Symbolic Logic. (LIN 1860). Cr. 3

Open only to Honors students. See PHI 1850. (Y)

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)

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. (B)

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 6080). 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 graduate student in linguistics 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. (LIN 5630). 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. (I)

5800. Special Topics in Philosophy. Cr. 3-4(Max. 9)

Topics and prerequisites announced in *Schedule of Classes*. (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 MAT 5600 or MAT 5420 or consent of instructor. 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. (I)

5390. Logical Systems II. (MAT 5390). Cr. 4

Prereq: PHI 5350 or MAT 5350 or consent of instructor. Detailed proofs of Godel's incompleteness results, Tarski's Theorem and Church's Theorem; formal axiomatic treatment of set theory and selected applications. (I)

Special Courses

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)

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 5200, 5350, 5390, and 5750. 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

Office: 2040 Faculty/Administration Building; 577-2630

Chairperson: Ronald E. Brown

Professors

Philip R. Abbott, David W. Adamany, Timothy Bledsoe, Pi-chao Chen, Rondal G. Downing, Charles D. Elder, Richard C. Elling, Otto Feinstein, Theodore B. Fleming, Jr. (Emeritus), Wesley L. Gould (Emeritus), Charles J. Parrish, Frederic S. Pearson, Henry J. Pratt, Murray B. Seidler (Emeritus), Jorge Tapia-Videla, Harold L. Wolman

Associate Professors

Ronald E. Brown, James T. Chalmers, Susan P. Fino, Michael Goldfield, Mary Herring, John M. Strate, T. Lyke Thompson

Assistant Professor

Marjorie E. Sarbaugh-Thompson

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*

**MASTER OF PUBLIC ADMINISTRATION in Criminal Justice*

**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, consult the Wayne State University Graduate Bulletin.

6. Positions associated with mass communications, such as radio, television and newspapers, where basic understanding of public affairs and governmental policies and organization is required for accurate reporting and analysis.

7. Positions in private enterprise where knowledge of governmental processes is essential, such as in industrial relations, legislative liaison and public relations.

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.

Admission Requirements for the College are satisfied by general undergraduate admission to the University; see page 13. To enter the Bachelor of Arts degree program in political science, students must have an honor point average of at least 2.0 and must declare their major in accordance with the rules of the College (see page 200).

Transfer Credits: Students wishing to apply transfer credits toward the major should consult the political science undergraduate adviser regarding departmental policies and restrictions on the use of these credits.

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 217) and the University General Education Requirements (see page 26), 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 pages 15-45 and 217-221, respectively.

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 more than one 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 International Relations/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 3330, 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; but this is not a required course.

— 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 3010, 3020, 3040, 3050, 3060, and 3430.

Public Law/Legal Studies. Judicial interpretation of the Constitution; civil liberties and constitutional rights; law enforcement and the operations of the judicial system. Relevant courses include: P S 3100, 3110, 5110, 5120, 6120, and 6350.

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, 3110, 3250, 5220, and 6020.

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, 3330, 3430, 5220, 6350, and 6370.

Public Policy. How policy is formulated, decided, implemented, and evaluated; moral and political standards for making policy. Relevant courses include: P S 2410, 2420, 2992, 3330, 3430, 4460, 5220, 5440, 5810, and 6430.

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, 3520, 3530, 5510, 5560, and 5570.

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 3600, 4460, 5630, and 6640.

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 2710, 3710, 4750, 4760, 4780, 5720, 5770, and 6370.

International Relations. Conflict and cooperation among nations; causes of war and the pursuit of peace; international organizations and multi-national 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, 3810, 5810, and 5820.

— 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 including P S 3100, 5110, and 5120 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 an honor point average of 2.25 and follow the procedures set forth by the College of Liberal Arts for declaring a major (see page 218).

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 complete 120 credits in course work including satisfaction of the College of Liberal Arts Group Requirements (see page 217) excepting the foreign language requirement, and the University General Education Requirements (see page 26), as well as the 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 pages 15–45 and 217–221, respectively.

Major Requirements: A Bachelor of Public Affairs major must complete twenty to twenty-three credits in prescribed foundation course work, twenty-four credits in B.P.A. core and elective courses in political science, and thirteen to sixteen credits including a cognate course in an approved area of concentration.

A Writing Intensive course in political science with 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 3330, 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.

Basic Knowledge and Skills Requirements: Students must satisfy the following course requirements and should do so primarily in their first two years of study. Some of these courses may also be used in partial fulfillment of University General Education Requirements.

Persuasive Writing (3 credits): One course in persuasive writing selected from English 3010, 3030, 3050, or 3080. This requirement is in addition to the University General Education Intermediate Composition (IC) requirement.

Mathematics (4 credits): MAT 1500 or 1800 required. This requirement should be satisfied as early as possible.

Computing (2–4 credits): One course in computing selected from CSC 1000, 1010, or 1100, or ACC 2630; CSC 1010 or ACC 2630 recommended.

Economics (8 credits): Two introductory principles courses (Economics 2010 and 2020).

American Government (3–4 credits): Political Science 1010 or 1030.

B.P.A. Core Requirements: Candidates for the Bachelor of Public Affairs degree must take two courses in the fundamentals of policy analysis and public management and two courses in research methods and techniques of data analysis.

1. Fundamentals	credits
P S 2410—Introduction to Public Policy	4
P S 2420—Ethics and Politics of Public Policy	4

2. Techniques and Methods	
P S 5630—Statistics and Data Analysis I	4

The statistics course is prerequisite to:

P S 4460—Techniques of Policy Analysis	4
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Political Science Electives: Students must take two additional political science courses (6–8 credits) beyond those needed to satisfy the B.P.A. Area of Concentration requirements described below.

— Areas of Concentration

In addition to the core and elective course work, students must select an area of concentration in which they take three political science courses and one non-political science cognate course. Students should consult with the political science undergraduate adviser in selecting their cognate course. Areas of Concentration include:

Public Management: The following are required for students choosing the Public Management concentration:

Political Science Requirements (10–12 credits): three courses selected from P S 2310, 3330, 3430, 5220, 6020 and 6120, dealing with basic public management processes, problems, and techniques.

Cognate Course (3–4 credits): one course relating to organizational and managerial behavior, management techniques and financial management, chosen from disciplines such as accounting, economics, business management, psychology and sociology.

Public Policy Analysis: The following are required for students in the Public Policy Analysis concentration:

Political Science Requirements (10–12 credits): three courses selected from P S 2310, 3030, 3110, 3330, 3430, 5220, 5440, 6430, 6440, and 6640, courses dealing with policy development, implementation, and evaluation.

Cognate Courses (3–4 credits): one course from another discipline on a subject such as health and welfare policy, transportation policy, housing policy, environmental policy, population policy, economic regulation and criminal justice.

Urban Policy and Management: The following are required for students choosing the Urban Policy and Management concentration:

Political Science Requirements (11–12 credits): Three courses selected from P S 2240, 2310, 3250, 5220, and 6020, dealing with urban political systems, urban policy, and urban management.

Cognate Course (3–4 credits): One course selected from another discipline such as urban planning, sociology, economics, geography, criminal justice, and history, relating to the problems and processes of urban policymaking and management.

Judicial Administration: The following are required for students in the Judicial Administration concentration:

Political Science Requirements (10–12 credits): Three courses selected from P S 2310, 3100, 3110, 3120, 6120, and 6350; dealing with local justice, American legal systems and processes, and the politics and administration of court systems.

Cognate Course (3–4 credits): One course selected from another discipline on a subject such as: organizational and managerial behavior, management techniques, business management, legal history or criminology.

Other Concentrations: With approval of the undergraduate adviser, an area of concentration may be specially designed consisting of courses related to the student's particular educational and career objectives. A plan of study for such concentrations must be filed and approved before the student registers for course work in the junior year.

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 honor point average of 3.3. To graduate with honors, students must:

1. Maintain a 3.3 honor 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 fifteen 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 h.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 220). 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 particular relevance to such majors as economics, journalism, history, sociology, psychology, philosophy, criminal justice, or urban planning, students are encouraged to consult the department's undergraduate adviser. A suitable sequence for pre-law students can be provided by either the undergraduate adviser or the pre-law adviser.

Internships

Internships in government 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 opportunities for cultural enrichment. Information on courses offered at Windsor is available from the department prior to registration each semester. Students should consult the department's undergraduate adviser or exchange program coordinator for further details.

Study Abroad Exchange Program with The University of Salford

Students may study for one or two semesters at the University of Salford in Salford, England, and earn Wayne State credits through an exchange agreement between the two universities. Applications may be obtained from the Office of the Dean, College of Urban, Labor and Metropolitan Affairs. Interested majors or prospective majors should also consult with the Department's undergraduate adviser.

Scholarships, Awards and Honorary Societies

Also see page 221, above, and the section on the Office of Scholarships and Financial Aid, page 21. For further information, contact the Department Office.

The Tudor Award is given annually for the best paper or essay written by an undergraduate student in a political science course.

The Stephen B. Sarason Award is given annually to the outstanding graduating senior majoring in political science.

Pi Sigma Alpha is the Wayne State chapter of the National Political Science Honorary Society for outstanding political science students.

Pi Alpha Alpha is the Wayne State chapter of the National Public Administration Honorary Society for outstanding public affairs/administration students.

UNDERGRADUATE COURSES (P S)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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)

1030. (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)

2000. (U S 2000) (SS) Introduction to Urban Studies.

(SOC 2500)(GPH 2000)(HIS 2000). 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.

(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. Politics 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. (SOC 2050) (HIS 2530). 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. (HIS 2700) (GPH 2700)(ENG 2670). 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 governmental roles; comparison with other systems; possible reforms. (B)

3030. Power and Pressure 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. (B)

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)

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)

3110. Politics and Local Justice. Cr. 4

Aspects of the local judicial process and interaction with political structures: judicial selection; operation of local courts in relationship with elected officials and pressure groups; discretion and bias in judicial process. (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)

3170. The Living Constitution. Cr. 4

Investigation of contemporary federal constitutional debate. Examination of a case currently pending before the U.S. Supreme Court; legal underpinning for and policy implications of the different possible outcomes. (B)

3250. Detroit Politics: Continuity and Change in City and Suburbs. (ULM 3250)(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. (B)

3430. 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)

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)

3520. (PL) Justice. Cr. 4

Analysis of major theories of justice; social, economic and political justice. (B)

3530. Community-Building in the History of Western Political Thought. Cr. 4

Conceptions of community in the history of Western political thought; historical origins and impact of these theories. (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. Major European Democracies: Germany and Britain. Cr. 4

Government and politics of Great Britain and Germany; the workings of parliamentary systems; politics and problems of German unification. (Y)

3810. 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)

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)

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)

4460. Techniques of Policy Analysis. Cr. 4

Prereq: P S 5630 or introductory statistics course. Student computer account required. Material fee as indicated in *Schedule of Classes*. 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. (Y)

4760. Central Europe in the Post-Communist Era: From Marxism to Capitalism. Cr. 4

Central Europe's adaptation to Soviet hegemony and withdrawal; political and economic problems of post-communism. (Y)

4780. Contemporary African Politics. (AFS 4780). Cr. 4

Nature of African politics; impact of African politics on international relations. (B)

4990. Directed Study. Cr. 1-4

Prereq: consent of chairperson and undergraduate adviser. (T)

4992. Senior Honors Seminar. Cr. 4

Prereq: admission to political science honors program, senior standing; others must have minimum 3.3 h.p.a. and written consent of undergraduate adviser. Bibliographic and data resources for political science research. Examples of contemporary political science research including presentations of ongoing work by departmental faculty. Development and defense of proposal for senior honors paper and completion of preliminary literature review and annotated bibliography. (Y)

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. 3

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; Afro-Americans, women and conservative Christians. (B)

5050. Politics and the Mass Media. Cr. 3

Prereq: P S 1010. 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)

5220. Issues in Urban Public Policy and Management. (U P 5150). Cr. 4

Prereq: P S 2240 and 2310 or consent of instructor. Examination of influences on urban policy formation and implementation. Problems of service distribution, policy impacts and policy evaluation in urban areas. Public administration in urban settings with focus on: program development/implementation, public facilities planning, land use controls, and public services. (B)

5440. Politics of the Elderly. Cr. 4

Analysis of age-based political behavior as reflected in public opinion, voting, and political organization; special governmental programs and agencies serving the aged. (B)

5510. U. S. and Canadian Political Thought. Cr. 4

Critical analysis of U. S. and Canadian political thought including the forms liberalism has taken throughout the history of both countries and the challenges of conservatism, democratic radicalism, and socialism; emphasis on role of political thought in public policy disputes. (B)

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

Student computer account required. Material fee as indicated in *Schedule of Classes*. Introduction to statistical description and inference in the study of politics, administration and public policy. Introduction to computer data processing and analysis; applications in the study of politics, administration and public policy. (Y)

5720. China, Japan, and the Far East. Cr. 4

Introductory survey of postwar political and economic development of East Asia: China, Japan, South Korea, Taiwan, Hong Kong, Singapore. (Y)

5740. Ethnicity: The Politics of Conflict and Cooperation. (PCS 5500)(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. (Y)

5770. Government and 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)

5810. 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)

5820. International Law. Cr. 4

Survey of basic principles of international law, their historical origin, bases in custom and convention, interpretation by courts and legal scholars. Special attention to current concerns: human rights, conflict resolution, environmental law; influence by United Nations and the European Union. (I)

5830. International Conflict and Its Resolution. Cr. 4

Types of international conflict and such methods of resolution as negotiation, mediation and other third-party procedures. (B)

5890. (PCS 5000) Dispute Resolution. (CRJ 5994)(PSY 5710). Cr. 3

Overview of the processes and sectors in the field of dispute resolution including negotiation, mediation, arbitration, and conciliation. (Y)

5991. Directed Study: W.S.U.-Salford Exchange. Cr. 3-6

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 in B.A./B.P.A./M.P.A. AGRADE Program. Internship to supplement classroom course work with practical experience gained through substantial involvement in a responsible capacity in a public or quasi-public agency or civic organization. (T)

5993. (W) 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 3330, 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 chairperson or instructor. Open only to juniors, seniors and graduate students. Topics to be announced in *Schedule of Classes*. (T)

6020. Intergovernmental Relations and American Federalism. Cr. 3

Legal, fiscal, political and administrative relationships among participants in 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. (HIS 5110)(SOC 7330)(U P 7030)(AFS 6100). 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. (I R 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

Constitutional and statutory status of bureaucratic agencies; administrative powers and procedures; judicial review of administrative decisions; Congressional oversight of bureaucracies. (B)

6340. (I R 7430) Public Sector Labor Relations. Cr. 3

Prereq: graduate standing. History, present functionings, problems and current controversies surrounding public sector unions. (B)

6350. Judicial Administration. (CRJ 6350). Cr. 3

Investigation of management of court processes and personnel; role of court administrators; financing, budgeting, speedy trial, indigent representation problems; alternatives to litigation; impact analysis. (B)

6370. Comparative Public Administration. Cr. 3

Prereq: P S 2310 or equiv. Comparative analysis of major problems and issues affecting national administrative institutions, structures, processes and behavior in a cross-cultural perspective. (B)

6430. Social Welfare Politics. Cr. 3

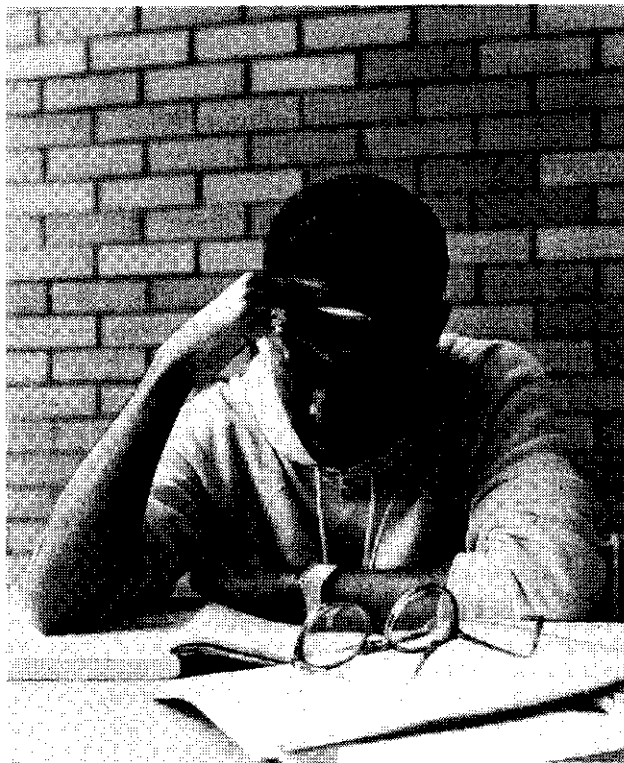
National government policy related to old-age assistance, income maintenance, food stamps, health care, and other entitlement programs. (B)

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, administration. (B)

6640. Statistics and Data Analysis in Political Science II. Cr. 3

Prereq: P S 5630 or equiv. Student computer account required. Material fee as indicated in *Schedule of Classes*. Modern statistical theory applied to the study of politics, administration, and public policy. Multivariate analysis: analysis of variance, multiple regression and correlation, path analysis, factor analysis, and discriminate function analysis. (Y)



ROMANCE LANGUAGES and LITERATURES

Office: 487 Manoogian Hall; 577-3002

Chairperson: Charles J. Stivale

Academic Services Officer: Terrie Pickering

Professors

Vincent C. Almazan (Emeritus), Fernande Bassan (Emerita), Manuela M. Cirre (Emerita), Andrea di Tommaso, Jesus Gutierrez (Emeritus), E. Burrows Smith (Emeritus), Donald C. Spinelli, Charles J. Stivale, Richard Vernier (Emeritus)

Associate Professors

Jorgelina Corbatta, Michael J. Giordano, Francisco J. Higuero, Louise M. Jefferson, Louis Kibler, Charlotte Lemke (Emerita), Manuel Martin-Rodriguez, Sol Rossman (Emeritus), Donald E. Schuriknight, A. Monica Wagner (Emerita)

Assistant Professors

Theresa Antes, Catherine Barrette, John E. Eipper, Heather Lancaster

Lecturers

Virginia Adan-Lifante, Raffaele DeBenedictis, Connie Green, Fenfang Hwu, Marilynn Rashid, Carole Verhelle

Adjunct Professors

Claude Astrachan, Robert Holley

Director of Foreign Language Laboratories

Farouk Alameddine

Degree Programs

BACHELOR OF ARTS with a major in French, 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 adviser for that program as soon as possible. The Department secretary will arrange an interview with the appropriate adviser upon the student's request.

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 217) and the University General Education Requirements (see page 26), 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 pages 15-45 and 217-221, respectively.

Major Requirements

All majors in Italian are required to take a minimum of two courses in English or American literature or in the literature of a country other than that of their major language. All majors in 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: There are two French majors offered by the Department, one in language and literature and the other in language and culture.

A major in French language and literature must take French 2100 or 2600 or 4100, 3610, 3620, 5100 or 5200 or 5310, 5400, 6400, 6450 or 6460 or 6470, and any two of the following: 6490, 6510, 6630, 6650, 6770, 6810, 6840, and 6991.

A major in French language and culture must take French 2100 or 4100, 2600 or 2710 or 2720, 3610, 3620, 5100 or 5310, 5200, 6400, 6450 or 6460 or 6470.

French majors in either option are also 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 2200, 3100; any two of Spanish 3610, 3620, or 3630; Spanish 5100, 5200, either 5550 or 5560, and three literature courses at the 6000 level (at least one peninsular and at least one Latin American), and one elective course in Spanish numbered 2030 or above in either language or literature. Six credits must also be elected in cognate courses.

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 223.

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. For information, contact the Associate Dean of the School of Business Administration, 226 Prentis Building, telephone: 577-4503.

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 honor 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).

Travel Study

Wayne at Gordes Summer Program: With the approval of the Department, students may earn credit in advanced French during an

* For specific requirements, consult the Wayne State University Graduate Bulletin.

eight-week summer session in the Renaissance village of Gordes in the south of France. (See Study Abroad, page 225.)

Minors and Cognate Study

Minor Requirements in French: A French minor requires the completion of seventeen to eighteen credits in French 2600, 2100 or 4100, 2710 or 2720, 3610 or 3602 and one 5000- or 6000-level course.

Minor Requirements in Italian: An Italian minor requires the completion of eighteen credits in Italian courses including: 2020, 3100 or 3200, 3600 or 3610, any 6000 level course, and one additional course at the 3000 or 6000 level. Substitutions can be made after consultation with the undergraduate adviser.

Minor Requirements in Spanish: A minor in Spanish requires the completion of 2200 and five other courses for a minimum of nineteen credits. With the guidance of the undergraduate adviser, courses may be chosen from the following: (language) 2030, 3040, 3050, 3100, 5100, 5200, 5300, 6400; (culture) 5550, 5560; (literature) 3610, 3620, 3630, any 6000-level literature 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 218.

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 or Spanish, and 1020 or 1060 for French; 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 adviser in the major of your choice (French, Italian, or Spanish): 577-3002. Students should consult with their advisers in their junior year regarding this opportunity.

Financial Aid and Awards

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

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99*. In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

— 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. (SPA 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, Heidegger, Kafka, Svevo, Sartre, Camus and others. (B)

2710. (FC) Introduction to French Civilization. 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) The Contemporary French. Cr. 3

Prereq: FRE 2710 recommended. 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)

2730. Literary Works from the French Tradition. Cr. 3

Introduction to selected prose works from several periods of the French literary tradition. Taught in English with all readings in English. (Y)

2990. Topics in Romance Studies: in English Translation. (SPA 2990)(ITA 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. 4

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)

5150. (ITA 5150) From Neorealism to Neocommercialism: Italian Cinema since 1942. Cr. 3(Max. 9)

Material fee as indicated in *Schedule of Classes*. Concentrated study of specific trends or the development of individual directors. Topics to be announced in *Schedule of Classes*. (B)

2070. Daily Life in Italy Today. Cr. 3

Introduction to the intellectual, political, cultural, and social life of modern-day Italians; their traditions, customs, folklore, daily habits. Taught in English. (Y)

2700. (GER 2700) (PL) Anguish and Commitment: European Existentialist Literature. (SPA 2700)(FRE 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 others. (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 is team-taught. (F,W)

5150. From Neorealism to Neocommercialism: Italian Cinema since 1942. (FLM 5150). Cr. 3(Max. 9)

Material fee as indicated in *Schedule of Classes*. Concentrated study of specific trends or the development of individual directors. Topics to be announced in *Schedule of Classes*. (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 is team-taught. (F,W)

FOREIGN LANGUAGE INSTRUCTION

FRENCH (FRE)

1010. Elementary French. Cr. 4

Material fee as indicated in *Schedule of Classes*. Training in communicative language use, including listening, speaking, reading and writing. Culture of the Francophone world. (T)

1020. Elementary French. Cr. 4

Prereq: FRE 1010 or placement. Material fee as indicated in *Schedule of Classes*. Continuation of FRE 1010. (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. Material fee as indicated in *Schedule of Classes*. Continuation of FRE 1020. (T)

2100. Intermediate Grammar, Conversation and Composition. Cr. 4

Prereq: FRE 2010. Special attention to development of language skills. Conducted entirely in French; discussion based on reading from contemporary materials. (T)

2600. Introduction to the Reading of Literature. Cr. 4

Prereq: FRE 2010. 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)

3040. French for Business. Cr. 4

Prereq: FRE 2010. French for basic business, legal and banking transactions and correspondence. Vocabulary and structures of business, training in drawing business documents, C.V.'s, invoices, complaints. Familiarization with French and Canadian businesses, as well as with cultural practices and differences. (Y)

3610. Survey of French Literature I. Cr. 4

Prereq: FRE 2100 or 2600. Study of literature from the Middle Ages through the 18th century. (F)

3620. Survey of French Literature II. Cr. 4

Prereq: FRE 2100 or 2600. Study of literature in the nineteenth and twentieth centuries. (W)

4100. Intermediate Conversation, Composition, and Contemporary Cultural Readings. Cr. 4

Prereq: FRE 2100. Discussion and composition based on readings in contemporary French social and cultural topics. (Y)

5100. (WI) Advanced Speaking and Writing. Cr. 4
Prereq: FRE 2100 or 4100 or consent of instructor. Spoken French in the context of French civilization. Readings and writing skills based on contemporary French texts, translations. (B)

5200. Phonetics and Diction. Cr. 3
Prereq: FRE 2100 or 4100 or consent of instructor. A systematic study of French sounds, phonetic transcriptions; practice in the language laboratory; intensive drills in accurate pronunciation and intonation. (B)

5310. Advanced Composition "sur le Motif". Cr. 4
Prereq: FRE 2100 or 4100. Composition and *explication de textes* utilizing texts related to Provence. Taught only in Provence at the Wayne State University summer program in Gordes, France. (S)

5400. Advanced Grammar Review. Cr. 3
Prereq: FRE 2100 or 4100 or consent of instructor. Advanced French grammar. Translation exercises from English to French; study of appropriate grammar rules. (B)

5850. (GER 5850) Second Language Instruction: Theory and Methods. (GER 7850)(SPA 5850)(FRE 7850)(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)

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 consent of instructor. Study of phonology, morphology, semantics, and syntax of modern French; examples of both literary and colloquial language. (B)

6450. French Civilization. Cr. 4
Prereq: FRE 3610 or 3620 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)

6460. Civilization "sur le Motif". Cr. 4
Prereq: FRE 2100 or 4100. Aspects of modern French civilization in Provence through daily readings and direct contact with the region. Taught only in Provence at the Wayne State University summer program at Gordes, France. (S)

6470. Contemporary French Society and Institutions. Cr. 4
Prereq: FRE 3610 or 3620. French political and social institutions and practices since World War II. Comparative study of examples from American institutions and practices. (B)

6490. Medieval Literature In Modern French. Cr. 4
Prereq: FRE 3610. Study of medieval culture through masterpieces of French and Provençal literatures. (B)

6510. French Sixteenth Century Literature. Cr. 4
Prereq: FRE 3610. Study of the principal genres represented by: Marot, Scève, Labe, Du Bellay, Ronsard, D'Aubigne, Montaigne and others. Topics to be announced in *Schedule of Classes*. (B)

6630. French Seventeenth Century Literature. Cr. 4
Prereq: FRE 3610 or equiv. 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. 4
Prereq: FRE 3610. 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. 4
Prereq: FRE 3610 or 3620. 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*. (W)

6810. French Nineteenth Century Literature. Cr. 4
Prereq: FRE 3620. Romanticism, Realism, Naturalism, Parnassian poetry, and the theatre of the second half of the nineteenth century. Chateaubriand, Hugo, Flaubert, Zola, Leconte de Lisle, Becque, and others. Course content will vary to cover a genre, or literary movement, school or period. Topics will be announced in the *Schedule of Classes*. (B)

6840. French Twentieth Century Literature. Cr. 4
Prereq: FRE 3620. 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. 4 (Max. 8)
Prereq: FRE 3620 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 (ITA)

1010. Elementary Italian. Cr. 4
Material fee as indicated in *Schedule of Classes*. Ear training, grammar, reading, writing, speaking; emphasis on ability to speak and read Italian. (T)

1020. Elementary Italian. Cr. 4
Prereq: ITA 1010 or placement. Material fee as indicated in *Schedule of Classes*. Continuation of ITA 1010. Composition, conversation, reading of simple modern prose. (T)

2010. (FC) Intermediate Italian. Cr. 4
Prereq: ITA 1020 or placement. Material fee as indicated in *Schedule of Classes*. Grammar review, composition, conversation, reading, discussion of contemporary Italian culture. (T)

2020. Intermediate Italian. Cr. 4
Prereq: ITA 2010 or placement. Continuation of ITA 2010 with readings in modern Italian literature and culture. (T)

3040. Italian for Business. Cr. 4
Prereq: ITA 2010. Italian for basic business, legal and banking transactions and correspondence. Vocabulary and structures of business, training in drawing 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 2020 or placement. Conversation based on current topics and reading materials. (T)

3200. Italian Grammar and Composition. Cr. 3

Prereq: ITA 2020 or placement. Advanced study of Italian grammar, phonetics, and syntax. Practice in writing themes and translations.

(T)

3600. Masterpieces of Italian Literature I. Cr. 4

Prereq: ITA 2020 or consent of department. 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. 4

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)

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. 4

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. 4(Max. 12)

Prereq: ITA 3600 or consent of instructor. The major contributions of the Italian Renaissance, including lyric poetry from Petrarch to Marino; 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. 4(Max. 12)

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. 4(Max. 12)

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. 4(Max. 12)

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 (SPA)

1010. Elementary Spanish. Cr. 4

Material fee as indicated in *Schedule of Classes*. Ear training, grammar, reading, writing, speaking.

(T)

1020. Elementary Spanish. Cr. 4

Prereq: SPA 1010 or placement. Material fee as indicated in *Schedule of Classes*. Continuation of SPA 1010.

(T)

2010. (FC) Intermediate Spanish. Cr. 4

Prereq: SPA 1020 or placement. Material fee as indicated in *Schedule of Classes*. Grammar review; emphasis on compositions, reading, conversation.

(T)

2030. Intermediate Spanish. Cr. 3

Prereq: SPA 2010. More intensive review of Spanish grammar; linguistic preparation for reading of literature; oral practice in the language.

(T)

2200. Intermediate Spanish: Readings in Hispanic Literature and Culture. Cr. 4

Prereq: SPA 2010 or placement. Discussion of literary and cultural readings from Spain and Spanish America; vocabulary building; spoken and written skills emphasized.

(T)

2600. (CBS 2120) Latin American and Latina Women Writers. Cr. 3

Creative writings by Latin American and Latina women writers; feminist theory and literary criticism from throughout Latin America with comparison to Latina women's writings.

(I)

3040. Commercial Spanish. Cr. 3

Prereq: SPA 2200. 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 2200. 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. Intermediate Grammar. Cr. 4

Prereq: SPA 2010 or placement. Study and utilization of grammar in speech and writing; pronunciation and intonation. Conducted entirely in Spanish.

(Y)

3200. Intermediate Conversation. Cr. 3

Prereq: SPA 2200. Informal class conversations, debates and oral reports to reinforce grammatical principles and to improve pronunciation through practice and imitation.

(B)

3610. Survey of Spanish Literature I. Cr. 3

Prereq: SPA 2200. Spanish literature from its origin to 1700.

(F)

3620. Survey of Spanish Literature II. Cr. 3

Prereq: SPA 2200. Spanish literature from 1700 to the present.

(W)

3630. Survey of Spanish American Literature. Cr. 3

Prereq: SPA 2200. Survey of Spanish American literature from colonial period to the present.

(Y)

5100. (WI) Advanced Composition. Cr. 3

Prereq: SPA 3100 or placement. Study and utilization of Spanish in written form: colloquial usage, literary Spanish, commercial Spanish, idiomatic expressions. Brief compositions and translation exercises. Conducted entirely in Spanish.

(Y)

5200. Spanish Phonetics. Cr. 3

Prereq: SPA 3100 or consent of instructor. A systematic study of Spanish sounds; intensive drilling in accurate pronunciation.

(B)

5300. Advanced Grammar and Stylistics. Cr. 3

Prereq: SPA 5100 or placement. Intensive study of grammar and syntax. Translation of literary texts into Spanish. 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 3610, 3620, or 3630. Spain's cultural history: painting, sculpture, architecture and music, through films, records, newspapers, and the text. (B)

5560. Spanish American Cultures and their Traditions. (CBS 5560). Cr. 3

Prereq: SPA 3610, 3620, or 3630. 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)

5850. (GER 5850) Second Language Instruction: Theory and Methods. (GER 7850)(FRE 5850)(FRE 7850)(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)

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. 4

Prereq: SPA 3610, 3620, or 3630. Main currents and masterworks of Spanish literature from its origins to 1500. (B)

6420. Spanish Literature of the Renaissance. Cr. 4

Prereq: SPA 3610 or 3620. Literary genres of the sixteenth century (poetry and narrative: picaresque, pastoral, morisco, and chivalric). (B)

6430. Spanish Literature of the Baroque Period. Cr. 4

Prereq: SPA 3610 or 3620. 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. (B)

6440. Spanish Literature of the Eighteenth Century. Cr. 4

Prereq: SPA 3610, 3620, or 3630. Literature of the Spanish Enlightenment; major works and literary trends and movements in the Spanish eighteenth century up to Romanticism. (B)

6450. Spanish Romanticism. Cr. 3-4

Prereq: SPA 3610, 3620, or 3630. Origins and development of Romanticism in Spain: theatre, poetry, costumbrismo, and novel. (B)

6460. The Spanish Novel of the Nineteenth Century. Cr. 4

Prereq: SPA 3610 or 3620. Representative works of the Realist and Naturalist movements. (B)

6470. The Spanish Novel of the Twentieth Century. Cr. 4

Prereq: SPA 3610, 3620, or 3630. 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. (E)

6490. Spanish Poetry of the Nineteenth and Twentieth Centuries. Cr. 4

Prereq: SPA 361, 362. Representative figures and trends in Modern and contemporary Spanish poetry. Post-Romantics, Symbolists, Generations of 1898 and 1927; more contemporary poets. (B)

6560. Cervantes. Cr. 4

Prereq: SPA 3610, 3620, or 3630. A detailed study of *Don Quijote*. Other short works of Cervantes. (B)

6570. The Comedia. Cr. 4

Prereq: SPA 3610, 3620, or 3630. Analysis of representative plays of Lope de Vega, Ruiz de Alarcon, Tirso de Molina, Calderon, and other dramatists of the Golden Age. (B)

6590. Genres and Topics in Peninsular Spanish Literature. Cr. 3 (Max. 9)

Prereq: SPA 3610, 3620, or 3630. Topics such as modern Spanish theatre, Generation of 1898, to be announced in *Schedule of Classes*. (B)

6600. Spanish American Colonial Literature. Cr. 4

Prereq: SPA 3610, 3620 or 3630. 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. (B)

6620. The Spanish American Novel II. Cr. 4

Prereq: SPA 3610, 3620 or 3630. 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. (B)

6630. Spanish American Poetry. Cr. 4

Prereq: SPA 3610 or 3620 or 3630. Major poets and their texts from the period of Independence through the early stages of Modernism, Modernism and Vanguard, to contemporary poetry. (B)

6670. Latin American Novel to 1900. Cr. 3

Prereq: SPA 3610, 3620, or 3630. Survey of Latin American novel from late colonial period to 1900. (B)

6690. Genres and Topics in Spanish American Literature. Cr. 3

Prereq: SPA 3610, 3620 or 3630. Topics in the literature of Latin America, such as the short story or theatre, to be announced in *Schedule of Classes*. (B)

6700. Spanish Literature of the Silver Age: 1900-1936. Cr. 3

Prereq: Spanish major or consent of instructor. Writers of first three decades of twentieth century; current narratological theories applied to intertextual maneuvers and philosophical concepts. (I)

6710. Unamuno's Existential Fiction. Cr. 3

Prereq: Spanish major or consent of instructor. Important novels of Miguel de Unamuno; emphasis on characters and their agonization in a circumscribed area. (I)

Special Courses (SPA)

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 Spanish. (T)

5990. Directed Study. Cr. 1-4(Max. 8)

Prereq: consent of adviser. (T)

SOCIOLOGY

Office: 2228 Faculty/Administration Building; 577-2930

Chairperson: Donald E. Gelfand

Professors

Joseph Albini (Emeritus), David W. Britt, Jeffrey W. Dwyer, J. Ross Eshleman, Donald E. Gelfand, Mel J. Ravitz (Emeritus), Raye A. Rosen (Emeritus), Mary C. Sengstock, Leon H. Warshay, Eleanor P. Wolf (Emeritus)

Associate Professors

Clifford J. Clarke, Thomas Duggan (Emeritus), Janet R. Hankin, Anne W. Rawls, Mary J. Van Meter (Emerita), Leon Wilson

Assistant Professor

Jacqueline Huey

Lecturers

Philip Bellfy, James Bozeman, David Maines

Adjunct Faculty

Diane Brown, *Center for Urban Studies*, Bill Hoffman, *United Automobile Workers*, Robert Kahle, Dorothy Kispert, *Parents and Children Together (PACT)*, Michael Martin, *Africana Studies*, Elizabeth Olson, *Institute of Gerontology*, Rosalie Young, *Community Medicine*

Degree Programs

BACHELOR OF ARTS with a major in sociology

BACHELOR OF APPLIED STUDIES with a major in sociology

**MASTER 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

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 217) and the University General Education Requirements (see page 26), 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 pages 15-45 and 217-221, respectively. 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.

—With a Major in Sociology

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.

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: Sociology 3820, 5400; elective courses; remaining requirements not taken in junior year.

Bachelor of Applied Studies

—with a Major in Sociology

Admission Requirements: This program is designed for students who hold an Associate degree in a human services technology field; see the general requirements for undergraduate admission to the University, 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 217) and the University General Education Requirements (see page 26), as well as the major and cognate requirements listed below. Each candidate for the degree of Bachelor of Applied Studies must complete a minimum of sixty-three credits beyond the required credits for the Associate degree. Courses in excess of the sixty-three credit minimum may be required if any of these requirements have not been met. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees; see pages 15-45 and 217-221, respectively.

Major Requirements: Candidates must complete thirty credits in sociology including SOC 2000, 3300, 4050 (or 6050 or 6060), 4100, 4200; and a minimum of one course in at least three of the following areas:

- Criminology, Penology, Deviance (SOC 3820, 3840, or 4800);
- Cultural Diversity (SOC 5500, 5570, or 5580);
- Family and Sex Roles (SOC 4460, 5400, 5410, 5450, or 5460);
- Social Institutions and Social Structure (SOC 3350, 5360, or 5810);
- Special Problems (SOC 5760, or 5870).

In consultation with their advisers, students should select courses which relate to their areas of specialization in the human services field. Students may not elect more than forty-five credits in course work within the Department.

Cognate Requirements: Students are required to take courses in three additional areas which will enhance their management and organizational skills. These courses include: computer applications course*, management skills (PSY 3500, or P S 2310); statistics (SOC 6280* or equivalent). (Sociology courses used to satisfy management and organization skills requirements—indicated by an asterisk—may

* For specific requirements, consult the Wayne State University Graduate Bulletin.

also be counted toward the major.) Additional elective courses are required to total a minimum of sixty credits at a baccalaureate degree granting institution.

Honors Program

An honors major in sociology is available to students who fulfill all requirements for the major, and who maintain a cumulative honor 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 h.p.a. of 3.3;
3. sociology h.p.a. of 3.3;
4. a minimum of three and maximum of six thesis credits in SOC 4999;
5. an approved honors thesis;
6. at least one 4000-level seminar offered through the Honors Program of the College of Liberal Arts. and
7. an accumulation of at least fifteen credits in honors-designated course work, including SOC 4999, and the 4000-level Advanced Honors Seminar. 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-one credits; course requirements are as follows:

SOC 2000	(SS) Understanding Human Society
SOC 3300	(SS) Social Institutions and Social Structure
SOC 4050	Basic Sociological Theory
SOC 4100	(SS) Social Psychology
SOC 4200	(WI) Methods of Social Research
Two Sociology electives	

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), 446 (Women in Society), 5400 (The Family), 5410 (Marriage and Family Problems), 5450 (Human Sexual Behavior and Society), 5460 (Sex Roles: Being Men and Women), 5870 (Violence in the Family), or 6400 (Family Theories and Research).

2. Business: Students who are preparing for a career in business might consider electing one or more of the following: Sociology 3300 (Social Institutions and Social Structure), or 5500 (Urban and Metropolitan Living).

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 2002 (Social Problems), 3820 (Theories of Crime and Delinquency), 3840 (Penology: Punishment and Corrections), 4800 (Outsiders, Outcasts and Social 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), 5760 (Society and Aging), or 6770 (Sociology and Institutional Care).

Awards and Scholarships

Frank Hartung Award: Dr. Frank Hartung was a distinguished criminologist and a faculty member of the Wayne State University Sociology Department through the 1970s. An award in his memory is given once a year to either undergraduate or graduate students. Students applying for the award must write a paper in the area of criminology. A committee of three faculty members reviews the entries and selects the awardee. A plaque and check for \$100 are awarded, and the winner's name is included on the plaque in the Department Office.

Shirley Falconer Slayman Memorial Scholarship: This scholarship is provided by the family of Shirley Falconer Slayman in memory of her attendance at Wayne State University and activity in the City of Detroit. Applications are accepted from full-time undergraduate or graduate degree students, or from students accepted for study at Wayne State University who are majoring or co-majoring in sociology. Recipients are selected on the basis of financial need, scholastic achievement, qualities of leadership, and commitment to contribute to community improvement, with financial need being the primary consideration. Selected recipients receive the award for two academic years.

* Sociology courses used to satisfy these management and organization skills requirements may also be counted toward the major.

UNDERGRADUATE COURSES (SOC)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99*. In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

- 2000. (SS) Understanding Human Society. Cr. 3**
No credit after SOC 2040. 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. (T)
- 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. (T)
- 2050. (PCS 2050) The Study of Non-Violence. (P S 2550) (HIS 2530). Cr. 3**
Intellectual and social roots of non-violence and the practice of non-violence in different people's life styles. (I)
- 2100. Topics In Sociology. Cr. 3 (Max. 9)**
Specialized and topical studies of sociological themes. Topics to be announced in Schedule of Classes. (T)
- 2360. Women and Health. 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. (T)
- 2500. (U S 2000) (SS) Introduction to Urban Studies. (GPH 2000)(P S 2000)(HIS 2000). Cr. 4**
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. (Y)

- 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. (B)
- 2720. Diversity and American Political Institutions. Cr. 3**
Tensions and programs produced by ethnic diversity in the United States; how the impact of diversity has changed over time in American political institutions. (T)
- 3030. AIDS and Society. Cr. 3**
Survey of social, epidemiological, physiological, legal and preventive issues surrounding AIDS. (Y)
- 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. (Y)
- 3350. Cults, Myths, and Religions in Society. Cr. 3**
Objective analysis of the interrelations between religious phenomena and social institutions, social structure and behavior. (B)
- 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. (B)
- 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 population explosion and its implication for government policy. Recommended for students interested in urban studies, medicine, nursing, political science and history. (B)
- 3820. Theories of Crime and Delinquency. Cr. 3**
Review and critique of explanations of criminal behavior. Criminal behavior patterns, sources of crime statistics, social structure of criminality, crime typologies, and other theoretical issues regarding crime and delinquency. (T)
- 3840. (CRJ 4300) Penology: Punishment and 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, jails and prisons. Socio-economic environment of offenders, and effects of criminal justice process on their ability to function positively within that environment. (T)
- 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. (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)

4050. Basic Sociological Theory. Cr. 4

Introduction to sociological theory from a general conceptual framework. Major concepts, theoretical positions and recent trends in theoretical 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 definitions 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 interpretation of data. (Y)

4410. Introduction to Clinical Sociology. Cr. 3

Prereq: junior standing, 15 credits in sociology. Employment of sociological theory and research in clinical settings, to assist individuals and groups in solving problems. Discussion of possible settings in which clinical sociology can be employed. (I)

4460. Women in Society. Cr. 3

In–depth investigation of the living and working conditions of women in the world today, with a particular emphasis on the impact of socioeconomic changes on the lives of women (including their relationships with men). (Y)

4800. Outsiders, Outcasts and Social Deviants. (CRJ 4800). 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)

4999. Honors Thesis in Sociology. Cr. 3(Max. 6)

Prereq: sociology major; cumulative h.p.a. 3.0, 3.3 in sociology; written consent of thesis and honors advisers. Open to juniors and seniors. For students interested in pursuing an independent program of original research. (Y)

5010. Selected Sociological Topics. Cr. 1–3

Topics to be announced in *Schedule of Classes*. (I)

5200. Women and Crime. Cr. 3

Prereq: SOC 3820. Issues of women in the criminal justice system. Traditional and feminist perspectives. Topics include: victimization, offending, personnel, and theory. (Y)

5280. (STA 1020) Elementary Statistics. Cr. 3

Prereq: one and one–half years high school algebra. Not to be counted as a mathematics course by mathematics majors. Student computer account required. Descriptive statistics, correlation and regression, notions in probability, binomial and normal distributions, testing hypothesis. (Y)

5360. Introduction to Medical Sociology. Cr. 3

Sociological and social psychological examination of health and illness behavior, health care providers, patient–provider–hospital relations, and health policy both in the United States and cross–culturally. Detroit area data and sex roles in medicine are discussed. This course is appropriate for non–sociology students with an interest in health issues (nursing, pre–medicine, and others), as well as for sociology and psychology students. (Y)

5400. The Family. Cr. 3

An introduction to the sociology of the family: forms of organization, interaction patterns throughout the life cycle, ethnic and cultural differences, conflict and change. Especially useful for students in

social work, counseling, family and consumer resources, nursing and education, as well as the other social sciences. (T)

5410. Marriage and Family Problems. Cr. 3

Social and historical context of marriage and family problems. Power, conflict, communication and crisis as they relate to the nature and dynamics of the family. Problem solving techniques; specific family problems: divorce or child abuse. (Y)

5420. Cross–Cultural and Ethnic Perspectives on the Family. Cr. 3

Prereq: SOC 3400. Range of possibilities of family structure and process. Topics include: intergenerational and husband–wife relations, child rearing practices, extended family patterns. Cross–cultural examples from studies of American ethnic groups and other countries. (B)

5450. Human Sexual Behavior and Society. Cr. 3

Sexual behavior from a cross–cultural point of view. Historical development and findings of sociological research related to human sexual behavior. (Y)

5460. Sex Roles: Being Men and Women. Cr. 3

Roles of men and women in society today; how they are changing and the effects of these roles on individuals and society. (Y)

5500. Urban and Metropolitan Living. (U P 5210). Cr. 3

Examination of the development and organization of urban living as it emerged from village to city to metropolitan regions. Consideration given to such topics as the causes of urbanization and its consequences for the ecological and social structure of the city, intergroup relations, crime and poverty in the city. (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)

5600. Sociology of International Inequality and Underdevelopment. Cr. 3

Prereq: introductory course in social science area. Comprehensive introduction to theoretical, substantive and methodological issues relating to international inequality; preparation for research interests of students from diverse backgrounds. (Y)

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)

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 social 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)

5890. Applied Techniques for Dealing with Family Violence. Cr. 3

Prereq. or coreq: SOC 5870. Theory and research on family violence as they suggest the services needed by victims. Analysis of legal, medical, counseling and other service needs of victims. (I)

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)

6050. Sociological Theory Before 1920. Cr. 4

Prereq: SOC 2000 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 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)

6300. Sociology of Women's Research Seminar. Cr. 3

Prereq: one course each in methods and advanced theory; and one women's studies course. Research-intensive approach to issues affecting women in society. Problems and diversity of the female population. Major feminist theoretical perspectives and literature. (I)

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)

6430. Approaches to Family Study. Cr. 3

Prereq: introductory course in a social science. Family systems and crisis theories as basis for study of family interaction; includes black family structure and function historically and in contemporary society. (Y)

6440. Urban Family Intervention. (S W 6440). Cr. 1

Prereq. or coreq: SOC 6430. Application of theory and practice technique in the helping process of urban, minority families in poverty. (Y)

6460. Family-Based Intervention Techniques. (S W 6460). Cr. 4

Appropriate theories and strategies for working with families on an in-home basis to change family interaction, child-rearing patterns, health practices and management behavior. Focus on high-risk, urban families. (Y)

6470. Family Perspectives for Practitioners. Cr. 3

Introduction to sociological theory and research on family: designed for practitioners in nursing, mental health, and counseling. Review of family structure, diversity, problems. Social context and developmental aspects of families. Changes in families through the life cycle and their effects on members. (Y)

6580. Applied Sociology I: Policy Research and Analysis. Cr. 3

Prereq: graduate students or advanced social science undergraduates. The logic of applied sociological analysis, policy research design and ethical issues in applied social science. Critical analysis of specific projects and of contributions of related social science disciplines. Development of writing skills for policy makers. (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)

6770. Sociology of Institutional Care. Cr. 3

Converging issues of theory, research and practice in general hospitals, mental hospitals, and nursing homes. Ecology of institutions and the adaptation of individuals within them. (I)

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)

6860. Organized Crime: Its History and Social Structure. (CRJ 6860). Cr. 3

Prereq: SOC 3820. Open only to juniors, seniors and graduate students. Analysis of the history and social structure of organized crime. Contemporary national and international forms of criminal enterprises. (B)

WOMEN'S STUDIES

Office: Room 3226, 51 West Warren; 577-6331 or 577-4166

Co-Directors: Jackie Byars and Jacqueline Huey

Participating Faculty

Effie Ambler (History), Barbara Aswad (Anthropology), Jane Blocker (Art and Art History), Jackie Byars (Communication), Jorgelina Corbatta (Romance Languages and Literatures), Elizabeth Faue (History), Anne Finger (English), Jacqueline Huey (Sociology), Karen Jankowsky (German and Slavic), Christopher Johnson (History), Marlyne Kilbey (Psychology), Gesa Kirsik (English), Gisela Labouvie-Vief (Psychology), Donna Landry (English), Ruth Ray (English), Andrea Sankar (Anthropology), May Seikaly (Near Eastern and Asian Studies), Mary Sengstock (Sociology), Jennifer Sheridan (Classics, Greek and Latin), Olga Tseudis (Criminal Justice), 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.

credits

W S 2700 - Interdisciplinary Topics in Women's Studies (Cr. 3)	6
W S 3010 - (SS) Interdisciplinary Introduction to Women's Studies	3-4
W S 5010 - Women's Studies Theories	3
W S 5990 - Senior Project Seminar	4
Group One Electives (see below) - at least eight credits	8
Additional electives from Group One or Group Two (see below)	3-8

MINOR REQUIREMENTS consist of eighteen credits distributed as follows:

Credits

W S 2700 - Interdisciplinary Topics in Women's Studies	3
W S 3010 - (SS) Interdisciplinary Introduction to Women's Studies	3-4
W S 5010 - Women's Studies Theories	3
Electives from Group One or Two (see below)	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. The courses make use of feminist scholarship, interrogate the construction of gender, and address issues of concern to women.

AFS 5110 - Black Women in America	3
AFS 5300 - African-American Women's Literature	3
ANT 5240 - Cross Cultural Study of Gender	3
ENG 2570 - (IC) Literature By and About Women: Literature & Writing	3
ENG 5030 - Topics in Women's Studies	3
HIS 3250 - The Family in History	3-4
HIS 5200 - Women in American Life and Thought	3
PSY 3250 - Psychology of Women	3
SOC 2360 - Women and Health	3
SOC 4460 - Women in Society	3
SOC 5410 - Marriage and Family Problems	3
SOC 5200 - Women and Crime	3
SOC 5460 - Sex Roles: Being Men and Women	3

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.

AH 5750 - Contemporary American Art (when approved)	3
AH 6730 - Contemporary Theory and the Visual Arts (when approved)	3
ENG 5150 - Shakespeare (when approved)	3
GER 5400 - Cultural Studies and Criticism (when approved)	3-4
HIS 5390 - Europe in the Age of the Reformation (when approved)	3
ISP 6110 - Seminar in Historical and Cultural Studies	4
SOC 5870 - Violence in the Family	3-4
SPF 5020 - Studies in Film History (when approved)	4
SPR 3010 - Media Analysis and Criticism (when approved)	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 distributed by mail to all students and faculty on the Women's Studies Mailing List.

UNDERGRADUATE COURSES (W S)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

For interpretation of numbering system, signs and abbreviations, see page 487.

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. (W)

3990. Directed Studies. Cr. 1–3

Prereq: WS 3010, consent of program director. Individually-designed research projects, developed with a supervising professor and approved by program director. (T)

4030. (SPC 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: WS 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. (Y)

5030. (ENG 5030) Topics in Women's Studies. Cr. 3(Max. 9)
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)

5300. (AFS 5300) African American Women's Literature. Cr. 3

Prereq: upper division standing. History of African American women writers from the colonial period to the present. Emphasis on the aesthetic, cultural, and political dimensions of African American literary texts and the problematics of an African American 'canon'. (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)

6010. (A H 6010) Women in the Visual Arts. Cr. 3

Prereq: A H 5720 or consent of instructor. Women's role as both creator and subject in art of the contemporary period. (I)



**LIBRARY and INFORMATION SCIENCE
PROGRAM**

DEAN: Patricia Senn Breivik

Foreword

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 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.

Approximately 100,000 libraries in the United States employ 150,000 professionals. The ALA-accredited M.L.I.S. degree is internationally recognized as the first professional degree in the field. Other individuals use their library and research skills in allied areas of information service outside the traditional library setting. In the next decade, those with appropriate credentials will have a significantly wider choice of opportunities to apply their skills, including traditional libraries and information centers within business, law, medicine, publishing, government, archives and museums, communications and media, engineering, and academic environments.

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 men and women 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 unit.

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.

Objectives

Courses offered to undergraduates present theory, concepts and practice in library and information studies. These courses may: assist the undergraduate in his/her library and research skills; serve as an introduction to the field for students who plan to pursue the M.L.I.S. degree program; and/or provide education for those desiring supportive positions and responsibilities in libraries and information centers.

The mission of the Library and Information Science Program is to educate qualified men and women to assume professional responsibilities as librarians/information specialists in an everchanging society. To achieve these goals, the Program sets the following general objectives for its students:

1. To evaluate the library and the information profession in its historical, social, technological, educational, and political dimensions;
2. To identify the library's distinctive role among the communication agencies which share responsibility for the preservation and dissemination of the human record;
3. To identify the common properties of information that exist throughout disciplines as they relate to library and information service;
4. To identify and examine the concepts, structure, and organization of knowledge;
5. To select, acquire, organize, store, retrieve, analyze, and disseminate information and materials;
6. To apply the concept of information transfer to facilitate access to recorded knowledge;
7. To demonstrate an understanding of the distinctiveness of each library/information center as a component of a specific environment;
8. To develop sensitivity to the opportunity and responsibility of library/information service in an urban, multicultural setting;
9. To identify the needs of individuals and groups for library/information services, to design plans, and to implement programs that respond to identified needs;
10. To identify, evaluate, and utilize current and emerging technologies in the organization and retrieval of information;
11. To apply principles of effective management to the operation of library/information centers and systems;
12. To examine, assess, and apply research in professional practice, and for the solution of library/information problems;
13. To articulate a personal philosophy of ethics and professional responsibilities;
14. To recognize the necessity for continuing involvement in professional education, in service to professional organizations, and in self-evaluation.

Facilities

University Libraries: Wayne State University has five libraries with a total of almost three million books and twenty-four thousand periodicals. The Purdy/Kresge Library complex houses all materials in the fields of business, education, humanities, and social sciences, as well as all general periodicals. This complex also contains the Media Library, including films and videotapes, audiovisual equipment, audiotapes, microforms, microcomputers, and phonograph records; and the offices of the Library and Information Science Program.

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 Neef Law Library. Health science materials are located in the 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 science student. Readily available to the University student is the main branch of the Detroit Public Library and the professional research library of the Detroit Historical Museum.

Computer Laboratory: The Library and Information Science Program has its own microcomputer laboratory equipped with state-of-the-art personal computers. Students can access the University Libraries' mainframe computer and a variety of common library databases. Located in the Kresge Library, the laboratory provides hands-on experience in accessing a variety of information retrieval systems, as well as other applications in library and information service. Library and information science students also have access to the computing facilities located in the Media Center of the Purdy Library.

Undergraduate Program

Undergraduate College of Education students interested in preparing for a career as library/media specialists in elementary or secondary schools, or other students interested in public, academic, or special library work, are eligible to take a limited number of courses in the Library and Information Science Program. Undergraduates interested in enrolling in library 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 SCIENCE in Library and Information Science*
- **SPECIALIST CERTIFICATE in Library and Information Science*
- **CERTIFICATE in Archival Administration*

College Directory

Dean of University Libraries and Library and Information Science:
Patricia Senn Breivik; 134 Purdy Library; 577-4020

Director of Library and Information Science Program:
Robert P. Holley; 106 Kresge Library; 577-4021

Office: 106 Kresge Library; (313) 577-1825; Fax: (313) 577-7563

Professors

Patricia Senn Breivik, Genevieve M. Casey (Emerita), Michael Keresztesi (Emeritus), Margaret Grazier (Emerita), Robert P. Holley, Philip Mason, Joseph J. Mika, Edith Phillips (Emerita), Vern Pings (Emeritus), Ronald Powell, Peter Spyers-Duran (Emeritus)

Associate Professors

Betty Maurstad (Emerita), Gordon Neavill

Assistant Professors

Rosie Albritton, Lynda Baker, Christopher Brown-Syed, Kenneth Cory, Nancy B. Johnson, Louise Spiteri, Bor-sheng Tsai

Lecturer

Judith Field

Adjunct Faculty and Part-Time Faculty

Roger S. Ashley, Technology Teacher, Media Director, Model High School, Bloomfield Hills, MI; Bonnie A. Dede, Head of Special Cataloging, University of Michigan Main Library, Ann Arbor, MI; Anita Dey, Head, Reference Services, Melvin J. Zahnow Library, Saginaw Valley State University, University Center, MI; Daria Drobny, Director, Learning Resources Center, Rehabilitation Institute of Michigan; Ruth Fitzgerald, Coldwater, MI; Gerald M. Furi, Assistant Director, Farmington Community Library, Farmington Hills, MI; Susan K. Goodman, Consultant, West Bloomfield, MI; Paulette E. Groen, Technical Information Specialist, Ford Motor Company; Charles D. Hanson, Grosse Point Farms, MI; Richard J. Hathaway, Coordinator, M-LINK Project, University of Michigan, Ann Arbor, MI; Susan Hill, Director, Library Cooperative of Macomb, Clinton Township, MI; Robert Mareck, Lansing, MI; Scott Mellendorf, Reference Intern, Melvin J. Zahnow Library, Saginaw Valley State University, University Center, MI; Jennifer L.S. Moldwin, Head Librarian, Detroit Institute of Arts, Detroit, MI; Blaine V. Morrow, Consultant, Author, and Teacher in Electronic Information Resources, Lansing, MI; Brian M. Owens, Lecturer, Department of History, University of Windsor, Windsor, Ontario, Canada; Robert E. Raz, Director, Grand Rapids Public Library, Grand Rapids, MI; Mary Louise Riley, Coordinator of Reference and Adult Services, Grand Rapids Public Library, Grand Rapids, MI; Charlotte E. Simon, Instructional Design Consultant, Huntington Woods, MI; Martha Smart, Branch Manager, Grandville Public Library, Grandville, MI

* For specific requirements, consult the Wayne State University Graduate Bulletin.

FINANCIAL AIDS, ACTIVITIES and AWARDS

Financial Aid

Students are invited to inquire about special fellowships and scholarships, as well as general financial aid. Contact the Director of the Library and Information Science Program, and/or the University Office of Scholarships and Financial Aids, 2 East, Helen Newberry Joy Student Services Center (also see page 21). The following financial aids apply to the Program:

Gloria A. Francis Scholarship: Awarded to students with outstanding scholastic achievement and desirable qualities of character and leadership. Financial need may also be considered.

Miriam T. Larson Memorial Scholarship: Awarded to an individual declaring a health sciences/medical libraries concentration.

Edith B. Phillips Endowed Scholarship: Awarded to students with outstanding scholastic achievement and desirable qualities of character and leadership. Preference given to students intending to concentrate in technical services and/or collection development.

Charles Samarjian Endowed Scholarship: Award open to students selected on the basis of scholastic achievement, character, leadership, and financial need.

Peter and Jane Spyers-Duran Endowed Scholarship: Awarded to students who show potential for excellence in the next generation of information professionals.

Title II-B Fellowship: Awarded to students selected according to guidelines stipulated in the grant proposal from the U.S. Department of Education.

H.W. Wilson Scholarship: Awarded to students selected on the basis of academic qualifications, character, and financial need.

Internships

The University Libraries support internships offering employment to library science students. The internship program provides students with an excellent opportunity to gain practical skills while supplementing their income. Students are encouraged to take advantage of this learning opportunity. 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 Shiffman Medical Library, the Neef Law Library, and the Technical Services Department of the University Libraries.

In addition to these placements, several area libraries offer paid and valuable pre-professional experiences. For a list of current opportunities, consult the Director of the Library and Information Science Program.

Library Employment Opportunities

In order to broaden student understanding of various aspects of library and archival professions, the University offers opportunities for students to work on an hourly basis (up to twenty hours per week during the regular academic year) and full-time (forty hours per week during the summer) in the University Libraries and at the Archives of Labor and Urban Affairs. Part-time employment is also available in other institutions in the metropolitan Detroit area.

Practicum

Within the Detroit metropolitan area there are over 200 libraries, many of which provide opportunities for supervised field experiences which students may elect for credit. A planned on-site experience in a participating library under the direction of a professional librarian and the supervision of a member of the faculty can be arranged. Applications must be received by the first day of the Summer term for Fall term placements; by the first day of the Fall term for Winter term placements; and by the first day of the Winter term for Summer term placements.

Placement Services

Library and information science students may use the University Placement Services. Placement Services include establishment of credential files to be mailed to prospective employers. In addition, the Library and Information Science Program offers resume and employment counseling, sponsors a Career Information Day, and maintains an extensive listing of currently available positions in all types of libraries throughout the United States.

Activities

Library and Information Science Student Association: recognized by the University as an organization of students in the Library and Information Science Program. Students enrolled in the Program automatically become members of the Association. Meetings are held throughout the academic year.

American Library Association—Student Chapter: Chartered by the American Library Association in 1988, the Chapter sponsors professional activities, promotes professionalism, and is open to all student ALA members.

American Society for Information Science — Student Chapter: Chartered by A.S.I.S. in 1991, the Chapter sponsors professional activities, promotes professionalism, and is open to all student A.S.I.S. members.

Special Libraries Association—Student Chapter: Chartered by the S.L.A. in 1989, the Chapter promotes professionalism, sponsors professional activities in special librarianship, and is open to all student S.L.A. 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.

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 tomorrow's archival profession; and to attract new members into the Society.

UNDERGRADUATE COURSES (LIS)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 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 487.

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 Programming and Processing. Cr. 3

Storage and retrieval problems as approached by conventional and nonconventional methods. Computer applications in libraries. Core course. (T)

6110. Reference and Information Services and Resources. Cr. 3

Reference function of the library; major titles in the reference collection with criteria for their evaluation; sources of continuing knowledge of reference materials; online reference sources, systems and searching. Development of interpersonal communication skills to increase effectiveness in response to patrons' information needs. Core course. (T)

6160. Electronic Access to Information. Cr. 3

Material fee as indicated in *Schedule of Classes*. Introduction to the various types of electronic media used to acquire and transmit information and to tailor it to specific user needs. Hands-on access to online search services, CD-ROM technology, hypermedia, in-house databases, and other aspects of emerging technology. Core course. (T)

6210. Technical Services in Libraries. Cr. 3

Material fee as indicated in *Schedule of Classes*. Survey of objectives and methods of acquisition, classification, cataloging, preparation of books and related materials in libraries. Core course. (T)

6360. (I T 5110) Educational Technology. 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 Instructional Media and Materials. Cr. 2-3

Design and development of instructional media and materials for use in educational, industrial, or human services programs. Development of computer-generated instructional materials. (Y)

6510. (ELE 7220) Survey and Analysis of Literature for Younger Children. 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. (ELE 7240) Survey and Analysis of Literature for Older Children. 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) Literature for Adolescents. Cr. 3

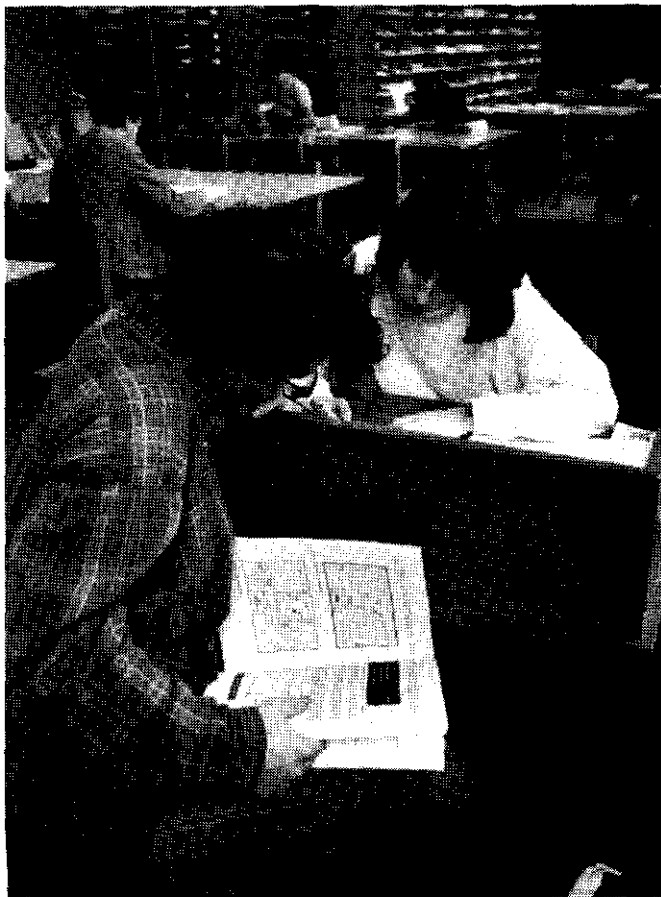
Standards for evaluating adolescent literature. Selection of literature for individual pupils in relation to interest and reading ability. Use of classroom collections. Techniques for helping pupils read poetry, drama, and fiction. (Y)

6550. (ELE 7280) 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. (F)



COLLEGE OF LIFELONG LEARNING

ACTING DEAN: Edward Sharples

Foreword

The College of Lifelong Learning (CLL) is principally responsible for outreach programs and off-campus course offerings of the College of Lifelong Learning and extension courses of other schools and colleges of Wayne State University. Through its Division of Metropolitan Programs and Summer Sessions (MPSS), the College 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 MPSS Division operates six instructional centers in the Detroit metropolitan area as well as in other selected locations in Michigan, and delivers instructional programs through television broadcasting. Through these outreach efforts, MPSS is able to serve and meet the educational needs of a diverse student audience: working adults who are unable to accommodate their schedules to 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. MPSS also offers a variety of noncredit career development and enrichment courses, often in conjunction with University schools or colleges.

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

Through the Interdisciplinary Studies Program (ISP) the College offers an interdisciplinary curriculum in the arts and sciences leading to the Bachelor of Interdisciplinary Studies or the Bachelor of Technical and Interdisciplinary Studies degrees.

By way of assisting those whose educational background has left them underprepared for university classes, the Division of Community Education helps recent high school graduates, as well as adult students, plan a university education by evaluating their preparedness for college and providing remedial and tutorial assistance where needed. Counselors of this Division work closely with students in program planning and the selection of classes.

CLL Advisory Board Endowed Scholarship Fund

To be eligible for awards, applicants must be admitted to CLL for the term in which the scholarship is awarded. Students must be enrolled in at least six credit hours for the term in which the scholarship is awarded.

CLL Degree Programs

BACHELOR OF INTERDISCIPLINARY STUDIES

BACHELOR OF TECHNICAL AND INTERDISCIPLINARY STUDIES

**MASTER OF INTERDISCIPLINARY STUDIES*

College Directory (area code : 313)

Acting Dean: Edward Sharples 577-4675
Director, Academic Services: Mary Kay Urick 577-6710

ADMINISTRATIVE SERVICES

Business Manager: Arthurine Turner 577-6960

ALUMNI RELATIONS

Director: Percy L. Moore 577-0577

DIVISION OF COMMUNITY EDUCATION

Associate Dean/Director: Sandra E. Alford 577-4590
Associate Director: Mary C. Dickson 577-4591
Counseling Services 577-4695

DIVISION OF DEGREE PROGRAMS and INTERDISCIPLINARY STUDIES PROGRAM

Associate Dean/Director: Roslyn Abt Schindler 577-4627
Associate Director: Howard Finley 577-0833
Information/Advising — Undergraduate 577-0832
Information/Advising — Graduate 577-4612
Service Agency Administration Program 577-6728

DIVISION OF METROPOLITAN PROGRAMS and SUMMER SESSIONS

Associate Dean: Barbara Couture 577-4595
Director, Credit Programming and Instructional Services:
Barbara Roseboro 577-4682
Director, Alternative Programming and Facilities Management:
Christopher T. Krzyzanski 577-4665
Director, Macomb County:
Earl Newman 577-6261
Director, Oakland County
Sharon O'Brien 577-3592
Director, Wayne County
Keith White 577-0613
Assistant to Associate Dean:
Cynthia Ward 577-4595
Program Coordinators 577-4682
Noncredit Programs 577-4665
Visitor Program 577-4665
Telecommunications 577-6966
Sponsored Programs 577-4665

MARKETING

Coordinator 577-4597

NON-MATRICULANT STUDENT SERVICES

Academic Advising 577-4693

RECORDS and REGISTRATION SERVICES

Academic Advising 577-4693
Registration 577-4671

Mail address for all offices: (Department Name), College of Lifelong Learning, 5700 Cass Ave., Detroit, MI 48202

* For specific requirements, consult the Wayne State University Graduate Bulletin.

Instructional Centers

The College of Lifelong Learning maintains comprehensive instructional centers at convenient locations throughout the Detroit metropolitan area:

EASTSIDE DETROIT CENTER

3127 E. Canfield
Detroit, MI 48207
Telephone: 313-577-4701
Fax: 313-571-8530

NORTHEAST CENTER

St. Basil School
22860 Schroeder
Eastpointe, MI 48021
Telephone: 313-577-3590,
810-771-3730
Fax: 810-772-5530

HARPER WOODS CENTER

Bishop Gallagher High School
19360 Harper Avenue
Harper Woods, MI 48225
Telephone: 313-577-3590
810-881-2438
Fax: 810-772-5530

OAKLAND CENTER

33737 W. Twelve Mile Road
Farmington Hills, MI 48331
Telephone: 313-577-3592
Fax: 810-553-7733

NORTHWEST ACTIVITIES CENTER

18100 Meyers Road
Detroit, MI 48235
Telephone: 313-577-0613
Fax: 313-864-0627

STERLING HEIGHTS CENTER

Heritage Junior High School
37400 Dodge Park
Sterling Heights, MI 48312
Telephone: 313-577-4470
810-978-7881
Fax: 810-268-1352

UNIVERSITY CENTER

AT MACOMB
44575 Garfield
Clinton Township, MI 48048
Telephone: (810) 263-6700
Fax: 810-263-6008



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. Additions and amendments in the following material pertain to the College of Lifelong Learning.

Academic Advising

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

Records and Registration Services

Supervisor: Alberta Ellis

Office: Second floor, Academic/Administrative Building, 5700 Cass Avenue, Detroit, Michigan 48202; telephone: 313-577-4671

Credit Registration: Registration for off-campus academic courses is held during the regular *Early Mail-in* and *Final Registration* periods for each semester (see Academic Calendar, page 4). Forms for each registration period are available in person from: the CLL 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 mail from the CLL Marketing Office; telephone: 313-577-4597. For specific registration information, telephone: 313-577-4671.

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

Schedule of Classes: The CLL Schedule of Classes for the off-campus courses and programs may be picked up at the CLL Student Services Office and at all extension centers, or may be obtained by mail from the CLL Marketing Office; telephone: 313-577-4597.

Marketing

Coordinator: Douglas Freed

The Marketing Office cooperates with other agencies within and outside the College of Lifelong Learning to advertise CLL programs through the print media, direct mail, radio, television, and various other means. This office develops promotional strategies, assists in the preparation of copy, develops and maintains mailing lists, and designs and distributes public relations materials.

DIVISION of COMMUNITY EDUCATION

Associate Dean and 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 Ervin, Ruthie White, Karen Wilson

Recruitment Support

Daune Elston, Robert Thomas

The Division of Community Education (DCE) is an alternative educational outreach program. Founded in 1969, this program provides access into baccalaureate degree programs for individuals who often presume that their prior educational performance would deny them access to a university education. Intensive counseling, and financial aid are available for program participants.

Participants in the Community Education Program are admitted to Wayne State University through the College of Lifelong Learning 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. This course of study itself does not lead to a degree, but assists students in entering and completing degree programs offered by other schools and colleges in the University.

Admission Requirements: This program has no restrictions on age or previous academic performance. The minimum requirement is a General Equivalency Diploma (GED) or high school diploma.

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 which may be recommended to enhance the student's academic performance.

Application: Admission applications and transcripts may be submitted at any time during the academic year. Applications should be submitted approximately two months prior to each semester.

Program Requirements: To be eligible to transfer from the Division of Community Education into other 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 service; failure to comply may result in dismissal from the program. Students are assigned academic advisers at the centers nearest to 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 from College of Lifelong Learning centers, the DCE office, or the University Scholarships and Financial Aid office.

The Division of Community Education Scholarship Fund makes funds available to qualified students. Contact the Division of Community Education (313-577-4695).

DIVISION of METROPOLITAN PROGRAMS and SUMMER SESSIONS

Associate Dean: Barbara Couture

Director of Alternative Programming and Facilities Management:
Kristopher Krzyzanski

Director of Credit Programming and Instructional Services:
Barbara Roseboro

Assistant to the Associate Dean: Cynthia Ward

Extension Directors

Macomb County: Earl Newman; *Oakland County:* Sharon O'Brien;
Wayne County: Keith White

Academic Advising

Center Academic Staff

Center Academic Staff

Susan English, Linda Robertson, Angela Rochon, William Slater, Denise Thomas

Program Coordinators

Kelly L. Boland, Gail Stanford, Donna Sotile

The Division of Metropolitan Programs and Summer Sessions (MPSS) is responsible for making available off-campus the courses and degree programs offered by other Wayne State University schools and colleges and for administration of the University-wide Summer Sessions. Close coordination with University academic units assures that courses are appropriately selected, staffed, and scheduled. Courses carry full university credit and many can be used to complete Wayne State University degree and certificate requirements. Instructional extension centers are maintained at convenient locations; see page 313.

The Division also develops and offers a variety of noncredit career and professional development courses, often in conjunction with cooperating University schools and colleges. The Visitor's Program makes it possible for interested community members to enroll in a wide variety of Wayne State credit courses on a noncredit basis at reduced tuition rates.

Admission Requirements

Most credit courses offered through the Division of Metropolitan 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 CLL 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 Lifelong Learning. 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.

ACADEMIC PROGRAMS

The following degrees are offered by other schools and colleges within the University, but coursework for these programs is available through CLL 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 the College of Lifelong Learning.

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

The Division of Metropolitan Programs and Summer Sessions offers 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 MPSS. For current information on upcoming courses and programs off-campus, telephone: 577-4682.

Business Administration: Business Administration courses are offered in Oakland County at the Birmingham and Southfield Centers, and in Macomb County at the Sterling Heights Center.

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 CLL extension centers, the University Center at Macomb, and Mott College in Flint. 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 Mott College in Flint, University Center at Macomb, and Delta University Center.

The Chemical Engineering Graduate Certificate in Hazardous Waste Management is offered at the Sterling Heights 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 CLL 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, the Oakland Center, and Saginaw. 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 Allied Health Professions: 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 introductory courses at the Northwest Activities Extension Center. Courses leading to completion of partial degree requirements for the B.S.W. and M.S.W. 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, and in the Departments of Peace and Conflict Studies; Urban, Labor and Metropolitan Affairs; Urban Planning; and Urban Studies are offered for this College at several locations.

Television Courses: Television courses provide a way to earn college credit through courses broadcast on WTVS, Channel 56, or over the College Cable Channel or The Working Channel. Along with the broadcasts, students use a textbook and/or study guide and meet with an instructor at scheduled times.

Travel Study: Sponsoring schools and colleges offer travel-study programs through CLL. Some are ongoing programs, and others vary each year.

TELECOMMUNICATIONS

The College of Lifelong Learning, in cooperation with the University Libraries and WTVS/Channel 56 maintains and operates a center for telecommunications at 77 W. Canfield, Detroit, Michigan 48202. This center is responsible for coordinating instructional television services provided by the College and maintains two twenty-four hour a day ITFS television channels, the College Cable Channel, and the Working Channel in conjunction with WTVS/Channel 56.

NONCREDIT CAREER and PROFESSIONAL DEVELOPMENT PROGRAMS

The Division of Metropolitan 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 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 313-577-4665.

NONCREDIT REGISTRATION

Course fees, refunds, and transfer policies vary by program. Registration for noncredit courses or for the Visitor Program may be made by telephone, using MasterCard or Visa credit card (telephone: 577-4665); or in person at the CLL 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: 810-263-6008

Director: Earl Newman, Macomb County

Counselor: Angela Rochon

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 pages 15-45 of this bulletin 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 ARTS and 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
Sociology
Speech Communication

*BACHELOR OF ARTS and BACHELOR OF SCIENCE
with a Major in*

Mathematics
Psychology

BACHELOR OF INTERDISCIPLINARY STUDIES

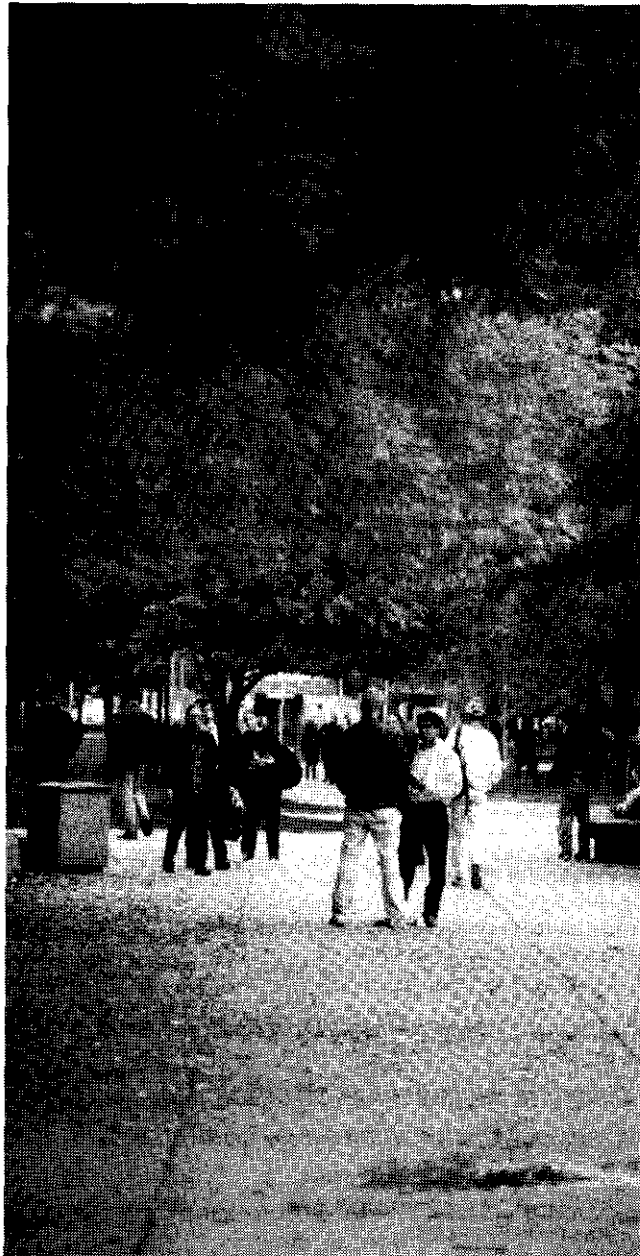
BACHELOR OF SCIENCE IN NURSING

BACHELOR OF SOCIAL WORK

*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.



INTERDISCIPLINARY STUDIES PROGRAM

*Office: Second Floor, Academic/Administrative Building,
5700 Cass Avenue, Detroit, MI 48202*

Associate Dean and Director: Roslyn Abt Schindler

Associate Director for Student Services: Howard Finley

Assistant to the Associate Dean/Director: Linda L. Hulbert

Professors

A. Ronald Aronson, Jerry G. Bails (Emeritus), Martin Glaberman (Emeritus), Julie T. Klein, Clifford L. Maier, Richard Raspa, Rolland Wright (Emeritus)

Associate Professors

Sandor Agocs (Emeritus), Eric A. Bockstael, David Bowen, Mary Lee Field, Gloria House, Moti Nissani, Daphne W. Ntiri, Roslyn Schindler, Norma Shifrin (Emerita), Francis Shor, Roland Wacker

Assistant Professors

Peter Friedlander, Andre Furtado, Theodore Kotila, Penelope Majeske, James Michels, Jerome Reide, Marsha Richmond, Saul Wineman (Emeritus)

Lecturer

Thomas Moeller

Adjunct Professor

Guerin C. Montilus

Academic Advisers

Sherry Clippert, Roberta DeMeyer, Demetrius Ford, Lois Hazell, Bobbie Walls, Derrick White

Degree Programs

BACHELOR OF INTERDISCIPLINARY STUDIES

*BACHELOR OF TECHNICAL AND
INTERDISCIPLINARY STUDIES*

**MASTER OF INTERDISCIPLINARY STUDIES*

The curricula leading to the bachelor's degrees offered by CLL enable students to concentrate on a single broad theme each semester concurrent with the acquisition of a comprehensive general education. Each theme is presented by way of three distinct but coordinated types of courses using the following teaching methods:

Workshop Courses in the evenings provide after-work classroom opportunities for students to attend lectures and exchange ideas with professors and other students. Workshops meet one evening a week from 6:00 until 10:00 p.m. at neighborhood locations throughout southeast Michigan. Morning workshops are held on the main University campus and at selected neighborhood locations for persons wishing to study during the day. Completion of each workshop earns three to four credits.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

Television Courses provide opportunities to complete most of the requirements for a course at home. Programs are broadcast over WTVS, Channel 56, and on cable via the College Cable Network and The Working Channel. Each is repeated several times; many adult learners choose to record them on video tape for greater convenience or to allow repeat viewing. Sessions providing the opportunity to discuss course content are held in conjunction with workshops. Completion of each television course earns three to four credits.

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 and earn three credits.

Most Interdisciplinary Studies Program (ISP) students are able to complete three courses per semester, one from each 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. Students who need reduced credit loads to accommodate scheduling problems and/or personal responsibilities are encouraged to proceed at a slower pace.

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 Associate Dean for Degree Programs.

DEGREE REQUIREMENTS: Candidates for the Bachelor of Interdisciplinary Studies degree must complete 120 credits including satisfaction of the University General Education Requirements (see below and page 26) and the credit distribution requirements as stated below. (See page 30 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 for which CLL subject area codes (GSS, GUH, and GST) are cited among the distribution requirements. 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 community college or a maximum of eighty 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 nine to ten credits per semester, including a weekly workshop (three to four credits), a telecourse or directed study course (three to four credits), and a weekend conference course (three credits); however, students may enroll for more or 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. Course sequences are defined as groups of three courses numbered 2010–2030, 2310–2330, or 2710–2730 within any CLL subject area code.

credits

GIS 2030—Interdisciplinary Studies Seminar	3
Social Science Electives (GSS)	20
Humanities Electives (GUH)	20
Science and Technology Electives (GST)	20

UPPER DIVISION: In this phase students typically earn ten to eleven credits per semester: a workshop (three to four credits), a weekend conference course (three credits), and a senior essay/project or senior seminar course (four credits). These are all CLL courses and are part of the residency requirement for which NO transfer credit is applicable.

Advanced Interdisciplinary Studies Courses (GIS, AGS, ISP, etc.)	14
Senior Essay/Project or Seminar (AGS)	8

ELECTIVES (Thirty-eight Credits): Students may choose electives for career advancement, preparation for graduate school, or for personal satisfaction. Electives may be chosen from within the CLL course offerings, 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 B.I.S. degree.

All B.I.S. students admitted to the ISP in Fall 1996 or after are required to complete GIS 3991 (four credits) after completing GIS 2030 and prior to enrolling in AGS 4760/4860 or AGS 4991/4996.

— 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 (forty of which must be earned as CLL resident credit), with a maximum of sixty-four credits transferrable 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 GIS 3080, GIS 3991, and AGS 4992. The 128 credits must include satisfaction of the University General Education Requirements (see below and page 26) and the following distribution requirements. (See page 30 for special requirements for students enrolled prior to Fall Term 1987.)

Capstone Program Credit Distribution Requirements

ASSOCIATE DEGREE TRANSFER CREDIT (Sixty-four Credits)

INTERDISCIPLINARY STUDIES (Forty Credits)	credits
GIS 3080—Topics in Interdisciplinary Studies	4
GIS 1510—(BC) Written Communication Skills	4
Social Science Electives (GSS)	7
Humanities Electives (GUH)	7
Science and Technology Electives (GST)	7
Advanced Interdisciplinary Studies Courses (GIS, AGS, ISP, etc.)	7
AGS 4992—(WJ) Senior Capstone Essay/Project	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 upon the student's particular interests.

All B.I.S. Capstone students admitted to the ISP in Fall 1996 or after are required to complete GIS 3991 (four credits) after completing GIS 3080 and prior to enrolling in AGS 4992.

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 and to supplement specialized concentrations of study with interdisciplinary general education offered by the College of Lifelong Learning.

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 CLL 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 26) 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.

College of Lifelong Learning Courses Satisfying General Education Requirements

The following ISP courses have been approved to fulfill the University General Education Requirements:

Competency Requirements

Basic Composition	GIS 1510
Intermediate Composition	AGS 3520, 4991, GIS 3510, GUH 2010
Writing-Intensive Course	AGS 4860, 4992, 4996
Oral Communication	GIS 1560
Computer Literacy	GST 2710
Critical Thinking	GIS 3260

Group Requirements

Life Science	GST 2310
Physical Science	GST 2420
Historical Studies	GIS 3160, 3180
Social Science	AGS 3480, GIS 3060, GSS 2710
American Society/Institutions	AGS 3420, GSS 1510
Foreign Culture	GIS 3600, 3610, 3620
Visual and Performing Arts	GUH 2730, 3730
Philosophy and Letters	GUH 2710, 3710

SERVICE AGENCY ADMINISTRATION PROGRAM

Office: 2146 Academic/Administrative Building, 5700 Cass Avenue, Detroit, MI 48202

Coordinator: Percy L. Moore

Academic Programs

MINOR in Service Agency Administration

POST-BACCALAUREATE CERTIFICATE in Service Agency Administration

The Service Agency Administration 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 Service Agency Administration 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. 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 Service Agency Administration 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 honor point average of 2.0, is required for completion of the Minor. Required courses for the Minor include: SAA 3000, 3500, 4000, and 4500, plus one elective selected from an approved list of courses drawn from allied fields.

THE POST-BACCALAUREATE CERTIFICATE in Service Agency Administration 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 honor point average of 2.5. Required courses for the Post-Baccalaureate Certificate include: SAA 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 ISP pay tuition according to the regular University fee schedule (see page 18).

Registration: ISP academic advisers have established dates and times when they are at CLL extension centers to see current and new students, either for advising or registration. Refer to the ISP Course Schedule and Catalog for the current term for more information. Students can participate in mail registration, register at CLL extension centers, or at the ISP office on the Wayne State campus.

Orientation: During each semester, 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 honor 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 the ISP arrange programs of study and register for their courses with a counselor each semester.

Financial Aid: 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 Aids, 2 East, Helen Newberry Joy Student Services Center.

Interdisciplinary Studies Program Women's Scholarship: Award of partial tuition open to any woman enrolled in the Interdisciplinary Studies Program with demonstrated financial need and a minimum 3.0 h.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.

UNDERGRADUATE COURSES

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

The following courses, numbered 0900–6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 487.

GENERAL SCIENCE and TECHNOLOGY (GST)

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. 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)

1830. (GUH 1830) The Sciences and Humanities: Understanding the Human Condition. (GSS 1830). Cr. 3

Registration restricted to one time only in each area: GUH, GSS, GST. Interdisciplinary conference course, meeting periodically on weekends during the semester, concerned with issues and problems which may usefully be treated from the viewpoints of the humanities, the social and natural sciences. Topics to be announced in *Schedule of Classes*. (S)

1990. Science and Technology: Directed Study. Cr. 2–4 (Max. 12)

Prereq: consent of instructor. 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

Conceptual treatment of individual and social components of well-being. Topics include: stress, addictive behavior, infectious and chronic diseases, sexuality, aging and death. Must be taken in conjunction with GST 2020. (F)

2020. Changing Life on Earth. Cr. 3–4

Prereq: successful completion of English Proficiency Test or equiv. Material fee as indicated in *Schedule of Classes*. Telecourse and laboratory. Introduction to key biological concepts, including the definition of life, origin of life, evolution, cellular organization, instincts, heredity, chemistry of life, the genetic code, and the nature of science; laboratory acquaintance with discovery and the experimental nature of the life sciences. (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

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)

2330. Current Issues in Energy Policy. Cr. 3

Semester-long course with periodic weekend sessions. Topics may include: nuclear energy, nuclear waste management; food technology and agriculture; solar energy, and alternative energy sources. Dates and themes announced each semester. (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. Historical introduction to key concepts in astronomy and physics; scientific process, ideas and methods. Lectures, discussion, videotape, laboratory experiments. (W)

2710. (CL) Computers and Society. Cr. 4

Concepts, structures and operations of digital computer; common applications such as word processing, spreadsheets, elementary programming; impact of computers on society. Micro computer used in workshop activities; no previous computer experience required. (T)

GENERAL SOCIAL SCIENCES (GSS)

1510. (AI) American Political Development. Cr. 4

Survey of major developments in American political institutions and ideas; analysis of the current operation of the national government. Workshop course. (Y)

1530. The Politics of Contemporary America. Cr. 3

Semester-long conference course with periodic weekend sessions. Analysis of specific political, economic, and diplomatic issues confronting contemporary America. Specific theme each semester. (Y)

1830. (GUH 1830) The Sciences and Humanities: Understanding the Human Condition. (GST 1830). Cr. 3

Registration restricted to one time only in each area: GUH, GSS, GST. Interdisciplinary conference course, meeting periodically on weekends during the semester, concerned with issues and problems which may usefully be treated from the viewpoints of the humanities, the social and the natural sciences. Topics to be announced in *Schedule of Classes*. (S)

1990. Social Science: Directed Study. Cr. 2-4(Max. 12)

Prereq: consent of instructor. Directed study supervised by a faculty member; appropriate if no courses of instruction are available in desired subject area. (T)

2010. Problems In Work and Labor. Cr. 4

Workshop course emphasizing problems related to the nature of work and jobs. (I)

2710. (SS) Selected Perspectives on Ethnicity. Cr. 4

Interdisciplinary social science approach to ethnicity and immigration, historical and contemporary. Development of analytical skills. (Y)

2720. Culture, Community, and Identity: Faces of Culture. Cr. 3

Telecourse. Cultures from all continents examined as illustration of human adaptation to environment from species beginning to present. Topics include: language and communication; culture and personality; marriage and the family; kinship and descent; religion and magic; culture change. (Y)

2730. Conference on Contemporary Issues in Ethnic Studies. Cr. 3

Semester-long course with periodic weekend sessions. Focus on institutions, neighborhoods, and ethnic groups; analysis of selected social problems, emphasizing the ethnic component. Dates and themes are announced each semester. (Y)

3110. Native American Cultures. Cr. 4

Prereq: GSS 2710 or equiv. Workshop. Examination of Native American cultures both before and after European contact, from earliest migrations and settlement of the North and South American continents, to present-day cultures and problems associated with urbanization and acculturation. (I)

3710. Women In Development. Cr. 4

Prereq: upper division standing. Overview of women's roles and status in contemporary Third World societies; issues of gender relations and gender inequality in social and economic development. (I)

5710. American Religion: An Interdisciplinary Social Science Study. Cr. 4

Prereq: senior standing. Workshop. Socio-historical structure of religious beliefs and practices in American society from early migrations of European settlers to modern time. (I)

GENERAL URBAN HUMANITIES (GUH)

1830. The Sciences and Humanities: Understanding the Human Condition. (GSS 1830)(GST 1830). Cr. 3

Registration restricted to one time only in each area: GUH, GSS, GST. Interdisciplinary conference course, meeting periodically on weekends during the semester, concerned with issues and problems which may usefully be treated from the viewpoints of the humanities,

the social and natural sciences. Topics to be announced in *Schedule of Classes*. (S)

1990. Urban Humanities: Directed Study. Cr. 2-4(Max. 12)

Prereq: consent of instructor. Directed study supervised by a faculty member; appropriate if no course of instruction available in desired subject area. (T)

2010. (IC) Cultural Identity and the American Experience: Writers' Responses. Cr. 4

Prereq: GIS 1510 or equiv. Origins, ideals, symbols and substance of American culture and character. Critical analysis and writing on the distinguishing features of American thought and culture. (I)

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. (I)

2710. (PL) Art and Aesthetics: Literature and Philosophy. Cr. 4

Analysis of literary works; philosophical approaches to the meaning and nature of literature, and of the criteria for its evaluation. (F)

2730. (VP) 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. (PL) Significant Issues in Cultural Studies. Cr. 3-4

Prereq: upper division standing or consent of instructor. 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. (VP) 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. (HS) Approaches to the Study of History. Cr. 3-4

Prereq: Upper division standing or consent of instructor. Methodological and philosophical considerations integral to history; the act of historical inquiry. (Y)

GENERAL INTERDISCIPLINARY STUDIES (GIS)

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. (Y)

1510. (BC) Written Communication Skills. Cr. 4 (Max. 8)

Must be taken in first 36 credits in Interdisciplinary Studies Program. General language awareness and written communication skills emphasized; students learn to write essays for academic success. This course must be taken during first thirty six credits of the Interdisciplinary Studies Program. (T)

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. (T)

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. (Y)

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 handled 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. 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. 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. (Y)

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. 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)

3230. Foundations of Knowledge Conference III. 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 Summer semester. (S)

3260. (CT) Methods of Search and Critical Thinking. Cr. 4

Prereq: upper division standing. 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)

3280. Foundations of Knowledge Seminar: World Religions. Cr. 4

Prereq: upper division standing. Interdisciplinary cross-cultural and epistemological analysis of religion as self expression of the most intimate relationship between humans and the universe, and as response to social conflict. (I)

3510. (IC) Intermediate Reading and Writing. Cr. 4

Prereq: GIS 1510 or equiv. Continuation of GIS 1510. Analytical reading, writing, and writing revision in the humanities, sciences and social sciences. Emphasis on research. (T)

3600. (FC) Interdisciplinary Perspectives on Foreign Culture: The Arabs. Cr. 3

Prereq: upper division standing or consent of instructor. 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. 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. Humanistic aspects, history, and socio-cultural institutions of Chinese cultures; theory, methods, comparativist perspectives. (W)

3840. General Interdisciplinary Directed Study. Cr. 2-4(Max. 12)

Prereq: upper division standing and prior consent of instructor. 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. Elective. 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)

3991. Interdisciplinary Core Seminar. Cr. 4

Prereq: GIS 2030 or 3080. Required of all ISP students admitted in Fall 1996 or thereafter; must be elected prior to AGS 4760/AGS 4860, AGS 4910/AGS 4960, or AGS 4920. Application of theories and methods of interdisciplinary problem solving. Case study of problem involving two or more disciplinary areas; research under direction of instructor. (T)

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)

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)

5350. (AFS 5350) African American Religious History and Practice. (ANT 5350). Cr. 4

Prereq: upper division or graduate standing. Historical role and function of religion among African Americans from slavery to the current period. Analysis of religion as the mainstay of African American survival and its contribution to African American identity. (B)

ADVANCED GENERAL STUDIES (AGS)

3060. Law: Analysis and Writing. Cr. 4

Prereq: GIS 1510 or equiv.; upper division standing. Intermediate written communication course: analytical reading, writing and revision; rhetorical aspects of legal materials, especially Supreme Court opinions. (I)

3340. Advanced Directed Study: Science and Technology. Cr. 2-4(Max. 12)

Prereq: upper division standing and consent of instructor. Directed study supervised by a faculty member. Appropriate if no courses of instruction are available covering desired science and technology topic area. Elective. (I)

3360. Science and Technology Advanced Studies Seminar. Cr. 4(Max. 12)

Prereq: upper division standing. 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: GIS 1510 or equiv. 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. 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. Area and period studies, problems and themes in interdisciplinary social science. Topics announced each semester. Elective. (I)

3480. (SS) Theoretical and Practical Analysis of Work Organizations. Cr. 4

Prereq: GIS 1510 or equiv.; upper division standing. Current social science theoretical perspectives and their practical application to study of the work place. (Y)

3520. Readings in Popular Culture: A Writing Course. Cr. 4

Prereq: GIS 1510 or equiv.; upper division standing. Intermediate level reading and communications course; analytical reading and composition skills. Focus on social commentary in the literature of popular culture by modern foreign and American writers. (Y)

3540. Advanced Directed Study: Urban Humanities. Cr. 2-4(Max. 12)

Prereq: upper division standing and consent of instructor. Directed study supervised by a faculty member. Appropriate if no courses of instruction are available covering desired humanities topic area. Elective. (I)

3560. Urban Humanities Advanced Studies Seminar. Cr. 4(Max. 12)

Area and period studies, problems and themes from interdisciplinary urban humanities. Topics announced each semester. (I)

4550. Field Studies/Practicum. Cr. 2-4(Max. 12)

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. (I)

4760. Senior Seminar I. Cr. 4

Prereq: upper division standing; GIS 2030 or GIS 3080; GIS 3910 for all ISP 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 ISP curriculum. Core readings and a substantial paper are assigned. (T)

4860. (WI) Senior Seminar II. Cr. 4

Prereq: upper division standing; GIS 2030 or GIS 3080; GIS 3510 or equiv.; GIS 3991 for all ISP students admitted Fall 1996 or after. 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; GIS 2030 or GIS 3080; GIS 3991 for all ISP 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; GIS 3080; GIS 3510 or equiv.; GIS 3991 for all ISP students admitted Fall 1996 and after. 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: AGS 4991. Continuation of first seminar; culmination in oral presentation before faculty panel and submission of completed major research essay or project for approval. (T)

INTERDISCIPLINARY STUDIES PROGRAM (ISP)

5500. Selected Topics in Interdisciplinary Studies. (ISP 7500). Cr. 2-4(Max. 8)

Prereq: written consent of adviser and instructor. Topics to be announced in *Schedule of Classes*. (Y)

5990. Directed Study. Cr. 1-4(Max. 08)

Prereq: written consent of adviser and instructor. Directed study and individual research under faculty member on a topic mutually agreed upon. (T)

6010. Interdisciplinary Core Seminar. Cr. 4

Prereq: admission to MIS program or consent of graduate chairperson. Must be elected only once; elect in first semester. 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. Introduction to principles of interdisciplinary historical and cultural study while exploring the phenomenon of change. Topics of case study vary each semester. This course is to be taken within the first two semesters of the MIS program and establishes prerequisite knowledge for further study in the program. (Y)

SERVICE AGENCY ADMINISTRATION (SAA)

3000. Service Agency Administration. Cr. 4

Prereq: passing score on English Proficiency Exam; junior standing. Management and leadership in nonprofit organizations: human service agencies; theory, practice and history. (F,W)

3100. Survey of Philanthropy. Cr. 4

Prereq: junior standing; passing score on English Proficiency Examination. Relevance of philanthropy to management and fund development of nonprofit organizations; expert knowledge of Michigan and national philanthropy. (T)

3500. Management of Volunteer Programs. Cr. 4

Prereq: passing score on English Proficiency exam; junior standing. Volunteerism: planning and evaluation of volunteer programs, motivation, recruitment, selection and training of volunteers. (W)

4000. Fund Raising and Grant Seeking. Cr. 4

Prereq: SAA 3000. Methods and techniques of fundraising and grant proposal writing for nonprofit organizations. Theory and practice. (F)

4100. Information Technology in Nonprofit Operations. Cr. 4

Prereq: SAA 3000 or successful satisfaction of intermediate writing course. Hands-on course: laboratory use of fundraising, wordprocessing, spreadsheet, desktop publishing software. Comparison of major nonprofit software; how information technology is used in nonprofit organizations. (F,W)

4300. Topics in Service Agency Administration. Cr. 4

Prereq: SAA 3000. New and developing topics in nonprofit sector studies; timely and historical perspectives. (Y)

4450. Internal Evaluation in Nonprofit Organizations. Cr. 1

Coreq: courses numbered above SAA 4000, or electives. Internal evaluation as ongoing analysis of effectiveness and efficiency of organizations, and as leadership tool. Measures employed to evaluate performance of nonprofit organizations. (T)

4500. Internship and Leadership in Service Agency Administration. Cr. 4-8

Prereq: SAA 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)



SCHOOL OF MEDICINE

DEAN: Robert J. Sokol

Foreword

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 and Master of Arts. 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 sixty students are enrolled in Ph.D. or Master's degree study in fourteen 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-four different clinical research programs. Continuing education programs, seminars and colloquiums 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 more than fifty 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. The School, through the University, operates in partnership with the Detroit Medical Center hospitals. The chairpersons of our departments or their designees serve as heads of departments or divisions within each of the Medical Center hospitals. 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 health care to staff other institutions and to practice in the community. Furthermore, the School is committed to its educational and care delivery activities within the context of medical education as a national activity, to which each institution contributes responsibly according to its abilities and resources.

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 Dr. Theodore A. McGraw, a native of Detroit who returned to the city in 1865 after serving for two years in the United States Army as a contract surgeon.

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 has entered its second century with a period of unparalleled 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 256 students, making the Wayne State University School of Medicine the largest single campus medical school in the country.

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 Prentiss Lande Medical Research Building houses research laboratories for clinical and basic science faculty.

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 School of Medicine is closely affiliated with a Veterans' Administration hospital, and seven other major urban and suburban hospitals in the Detroit Medical Center. In addition, the School has training applications with a number of hospitals in the metropolitan area.

The School is an active partner in nationally- and regionally-recognized research programs and has defined several areas of noted excellence, including cancer (in partnership with the Karmanos Cancer Institute), women's, and children's medicine, cardiology and cardiovascular health, the neurosciences, and ophthalmology.

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 — in particular, 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;

Grace Hospital, a full-service hospital which offers a wide range of outpatient services. (Huron Valley Hospital, located in a northern suburb, is also operated by the DMC.)

Harper Hospital, which specializes in oncology, cardiology, general surgery and a number of additional surgical specialties and subspecialties;

Hutzel Hospital, which includes among its areas of excellence: obstetrics, gynecology, gynecologic oncology, ophthalmology, neonatology, perinatology, urology and the treatment of infectious and renal diseases;

Rehabilitation Institute, Inc., 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;

Gershenson Radiation Oncology Center, which provides high-technology radiation treatment services for all Medical Center Hospitals. A magnetic resonance imaging center and the world's first superconducting cyclotron are under development.

Shiffman Medical Library — School of Medicine Learning Resource Centers

Director: Ellen B. Marks
Assistant Director: Sandra Martin

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. – 9:00 p.m.

Sunday 12:00 n. – 11:00 p.m.

The Shiffman Medical Library serves the School of Medicine and the College of Pharmacy and Allied Health Sciences, and is the research library for 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.

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. A variety of study materials for the USMLE are available on reserve. Students are encouraged to obtain accounts to MEDLINE and other dial-access databases and to sign up for workshops focused on accessing health sciences databases, the Internet, and other topics which are offered at various times each month.

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: 1128 Scott Hall, 540 E. Canfield

Executive Director of Development: Howard B. Newman
Director of Development: Priscilla J. Khoury
Manager of Alumni Affairs: Betty-Anne Leitch

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 program is 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 and an awards program are held. The Association provides scholarships and awards which are announced at commencement. In addition, the School sponsors reunions at several medical specialty conventions 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: 1281 Scott Hall

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.

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: Charles C. Vincent, 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, Medical College Admission Test (MCAT) scores, college recommendations, and interview results as these reflect the applicant's personality, maturity, character, and suitability for medicine. The mean honor point average for students admitted in 1996 was approximately 3.50. We encourage applicants from areas where there is a shortage of physicians.

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. Interviews are required but only scheduled with those applicants who are given serious consideration.

Requirements for Entrance

The Medical College Admission Test (MCAT) is required of all applicants, 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 outstanding academic attainment. The MCAT should be taken during the year of application, preferably in the spring. Required courses for medical school and MCAT preparation include two semesters each of the following: general

biology or zoology (with lab); inorganic chemistry (with lab); organic chemistry (with lab); general physics (with lab); English.

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.

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 1, for consideration to transfer with advanced standing into Year 3.

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 counseling and academic programs for high school, college, and post-baccalaureate students. The post-baccalaureate program offers a one-year med-prep experience to a select group of qualified applicants. The program guarantees admission to the School of Medicine for all students who perform satisfactorily in the program. This unit is also responsible for the summer program for incoming minority students.

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 specialization 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 specialization 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**

SCHOOL DIRECTORY

Dean	1241 Scott Hall; 577-1335
Administration and Finance	1241 Scott Hall; 577-1048
Continuing Medical Education	5E Univ. Health Center; 577-1453
External Affairs	1128 Scott Hall; 577-1495
Alumni Affairs	1128 Scott Hall; 577-1495
Development	1128 Scott Hall; 577-1495
Public Affairs	1281 Scott Hall; 577-1429
Personnel Office	1248 Scott Hall; 577-1163
Information	1102 Scott Hall; 577-1460
Medical Center Relations	9C Univ. Health Center; 745-5194
M.D. Programs:	
Admissions	1310 Scott Hall; 577-1466
Curricular Affairs	1206 Scott Hall; 577-1450
Student Affairs	1369 Scott Hall; 577-1463
Financial Aid	1374 Scott Hall; 577-1039
Records and Registration	1272 Scott Hall; 577-1470
Ph.D. and M.S. Programs	1269 Scott Hall; 577-1455
Research	1269 Scott Hall; 577-1445
Residency:	
Graduate Medical Education	9C Univ. Health Center; 745-5146

Mailing address for all offices: Wayne State University,
School of Medicine, 540 East Canfield, Detroit, Michigan 48201

COLLEGE OF NURSING

ACTING DEAN: Marilyn Oberst

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.

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
- Advanced Psychiatric Mental Health Nursing
- Community Health Nursing
- Nursing Care Administration
- Nursing, Parenting, and Families

**DOCTOR OF PHILOSOPHY in Nursing*

**Graduate Certificate Programs*

Nursing Education

Neonatal Nurse Practitioner

Transcultural Nursing



For specific requirements, consult the Wayne State University Graduate Bulletin.

ADMINISTRATION and FACULTY

Acting Dean: Marilyn Oberst
Associate Dean, Academic Affairs: Marjorie A. Isenberg
Associate Dean, Research: Ada Jacox
Assistant Dean, Adult Health and Administration: Dawn Hameister
Assistant Dean, Family, Community, and Mental Health:
 Kathleen Huttlinger
Administrative Assistant Dean for Student Affairs: Vickie Radoye
Assistant to the Dean: Mercedes Wolfe
Business Manager: Betty Bontsas
Academic Services Officers: Felicia Grace, Jane Helinski,
 Naida Simon

Professors

Marjorie Isenberg, Ada Jacox, Darlene Mood, Marilyn Oberst, Marilyn Oermann

Associate Professors

Nancy Artinian, Arnold Bellingher, Stephen Cavanagh, Chandice Covington, Mary Denyes, Judith Floyd, Dawn Hameister, Effie Hanchett, Ingvarda Hanson, Paulette Hoyer (Research), Kathleen Huttlinger, Mary Jirovec, Karen Labuhn, Carolyn Lindgren, Laurel Northouse, Barbara Pieper, Jeannette Poindexter, Virginia Rice, Fredericka Shea

Assistant Professors

Marie Draper Dykes, Judith Fouladbaksh, Ann Horgas, Kathleen Moore, Nancy O'Connor, Olivia Washington, Feleta Wilson

Assistant Professors (Clinical)

Frances Board, Hertha Gast, Nancy Troy, Frances Wimbush

Clinical Instructors

Ann Collins, Margaret Falahee, Denise Harrison, Virginia Hosbach, Anne Marszalek, Barbara Moore, Linda Sikora, Susan Szczesny, Christine Weber

Senior Lecturer

Mary Delaney

Lecturers

JoAnn Ashare, Esther Bennett, Joan Bickes, Madeline Diedo, Mary Rose Forsyth, Joyce Hammer, Janet Harden, Dianne Hayward, Kathryn Keves-Foster, Sharon Langlotz, Cynthia Marks, Margie Miller, Sukhta Pradatsundarasar, Suzanne Skowronski, Sue Webb, Barbara Williams

COLLEGE DIRECTORY

Dean	112 Cohn; 577-4070
Associate Dean for Academic Affairs	230 Cohn; 577-4138 and: 800-544-3890
Office of Student Affairs	10 Cohn; 577-4082
Center for Health Research	315 Cohn; 577-4134
Assistant to the Dean	108 Cohn; 577-4105
Business Manager	100 Cohn; 577-4086

Mailing address for all offices:

College of Nursing, Wayne State University, 5557 Cass Avenue
 Detroit, Michigan 48202

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 (B.S.N.) 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-BSN Completion, and Accelerated ADN-MSN.

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' or better in each course. Applicants must have a minimum 2.5 honor 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 honor point average. Admission to the program is highly competitive and is based in large part on the honor 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' or better in each course. Applicants must have a minimum 2.5 honor 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 honor point average. Admission to the program is highly competitive and is based in large part on the honor 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-BSN COMPLETION: Applicants are eligible to apply to the RN-BSN 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. Admission to the program is offered every semester.

ACCELERATED ADN-MSN: Applicants are eligible to apply to the Accelerated ADN-MSN Program if they are Michigan licensed registered nurses who have earned associate degrees in nursing (ADN) and are interested in preparing for advanced nursing practice at the master's level. The Accelerated ADN-MSN Program combines the baccalaureate and master's degree programs for academically talented 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.

Admission to the program is based upon an ADN honor point average of at least 3.3 and a minimum of one year's experience as a registered nurse. Progression into senior year professional nursing courses is granted after completion of all prerequisite courses and validation of nursing knowledge from successful completion of NLN Mobility Profile II Examinations.

Admission to the MSN portion of the program is a separate application process and students must meet all College of Nursing and Graduate School admission requirements for graduate study. (See Wayne State University Graduate Bulletin for details.) This process begins at the start of senior level professional course work. Completion of the Bachelor of Science in Nursing does not automatically guarantee admission to graduate study in the College of Nursing.

Presidential Scholars: Wayne State University Presidential Scholars are admitted directly to the College of Nursing as freshmen or transfer students. Presidential Scholars must satisfactorily complete all Traditional Program prerequisite courses (see below) prior to applying to the professional nursing component beginning in the sophomore year (fall term) and must maintain Presidential Scholarship standards, including an honor point average of 3.0 or above. They must also apply directly to the College to begin the professional component of the program and meet program application deadlines.

Application

Admission to the Bachelor of Science in Nursing programs is a two-step process.

Step I — Application to Wayne State University: Applicants must submit the following items to the Office of University Admissions: the *Application for Undergraduate Admission*, application fee, official transcripts from all post-secondary institutions attended, and a copy of current Michigan RN license (if applicable). Applicants must meet all the general requirements for undergraduate admission to the University (see page 15). International applicants must also achieve a minimum score of 550 on the Test of English as a Foreign Language (TOEFL) and submit all other required documentation (see 'International Students,' page 17).

Step II — Application to the College of Nursing: Applicants must submit to the College of Nursing Office of Student Affairs the *Application for Admission to the Bachelor of Science in Nursing Program*, and a copy of all transcripts from all post-secondary institutions attended. Applicants for the Accelerated ADN-MSN Program must show documentation of at least one year's experience as a registered nurse.

APPLICATION DEADLINES: All admission materials listed above must be received in the appropriate offices by the program application deadline dates listed below:

Traditional Program:

Fall Admission March 31

Second Career/Second Degree Program:

Fall Admission March 31

(Evidence of completion of all course prerequisites must be documented with official transcripts and received by the College of Nursing, Office of Student Affairs, no later than June 1.)

RN-BSN Completion Program and Accelerated ADN-MSN Program Program:

Fall Admission August 1

Winter Admission December 1

Spring/Summer Admission April 1

All application materials must be received by the deadline date to be considered for admission.

Readmission

Nursing students whose attendance in the nursing clinical sequence of the curriculum has been interrupted for more than one academic year must apply for readmission to the College of Nursing. Contact the Office of Student Affairs for application materials and deadline dates. Readmission decisions are based on the student's academic record, and space availability. There is no assurance that a student can be readmitted once the student withdraws from the program or does not progress in the program within the specified time limitation.

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 B.S.N. accredited programs. Transfers to the upper division level will be determined by the equivalency of curricula as determined by the Associate Dean for Academic Affairs and upon available space in the program in upper division courses. The College determines which transfer credit is applicable to the B.S.N. 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' or better:

	<i>credits</i>
BIO 1510—(LS) Basic Life Mechanisms (Laboratory)	4
BIO 2870—Anatomy and Physiology (Laboratory)	5
CHM 1020—(PS) General Chemistry I (Laboratory)	4
CHM 1030—General Chemistry II (Laboratory)	4
ENG 1020—(BC) Introductory College Writing	4
PSY 1010—(LS) Introductory Psychology	4
PSY 2400—Developmental Psychology	4
SOC 2000 or ANT 2100	
—(SS) Understanding Human Society	3
—(SS) Introduction to Anthropology	3
Mathematics Competency (MC) Requirement	

The Mathematics Competency (MC) requirement may be satisfied by examination (see General Education Requirements, page 26). All applicants must have a minimum 2.5 honor 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 honor point average. Since admission to the program is competitive, the higher the honor point average, the greater the likelihood of admission.

NOTE: All sciences must include a laboratory component, and the anatomy and physiology requirement must have been completed within five years prior to entry into the program.

SECOND CAREER/SECOND DEGREE PROGRAM: The pre-nursing requirements for admission into this program include completion of a baccalaureate degree from an accredited institution, satisfaction of the English Proficiency (EP) requirement of the General Education Requirements, and completion of the following courses with a grade of 'C' or better:

	<i>credits</i>
BIO 1510—(LS) Basic Biology I (Laboratory)	4
BIO 2200—(LS) Microbiology (Laboratory)	4
BIO 2870—Anatomy and Physiology (Laboratory)	5

CHM 1020 —(PS) General Chemistry I (Laboratory)	4
CHM 1030 —General Chemistry II (Laboratory)	4
PSY 2400 —Developmental Psychology	4
English Proficiency (EP) Requirement	
One Sociology (SOC) course	3
(OR Foreign Culture (FC) course)	
ANT 2100 — (SS) Introduction to Anthropology	3
Philosophy and Letters (PL) OR Visual & Performing Arts (VP) course	3

The English Proficiency (EP) requirement may be satisfied by examination (see General Education Requirements, page 26). All applicants must have a minimum 2.5 honor 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 honor point average. Since admission to the program is competitive, the higher the honor point average, the greater the likelihood of admission.

NOTE: All sciences must include a laboratory component and the anatomy and physiology requirement must have been completed within five years prior to entry into the program.

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 July 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 Affairs. The University and the College reserve the right to refuse or cancel a student's admission or to direct 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 \$100,000,000/\$300,000,000 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 July 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. **Course Material Fee Cards (CMF):** The student must purchase course material fee cards for certain courses identified in the *Schedule of Classes*.

5. **BCLS—Level C Certification:** All students must have the equivalent of BCLS—Level C (Basic Cardiac Life Support) certification 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 31 of each year. Faculty are directed to deny student access to clinical experiences if the student cannot present proof of current health clearance, BCLS—Level C 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.

Progression to Senior Year Nursing Courses for RN Students

Progression of the RN student in the RN–BSN Completion and the Accelerated ADN–MSN Programs to senior-level nursing courses is contingent upon satisfactory completion of National League for Nursing Mobility Profile II examinations in Care of the Adult Client, Care of the Client During Childbearing and Care of the Child, and Care of the Client With Mental Disorder. These examinations must be taken within three years of beginning the senior year.

credits

NLN Mobility Profile II Examinations	34
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In addition, *all students must achieve* grades of 'C' or better in all courses cited below. These courses may NOT be taken for Passed/Not Passed grades. A cumulative University h.p.a. of 2.00 or above must be maintained.

credits

BIO 1510—(LS) Basic Life Mechanisms (Laboratory)	4
BIO 2200 — (LS) Introductory Microbiology (Laboratory)	4
BIO 2870 —Anatomy and Physiology (Laboratory)	5
CHM 1020 —(PS) General Chemistry I (Laboratory)	4
CHM 1030 —General Chemistry II (Laboratory)	4
ENG 1020 —(BC) Introductory College Writing	4
ENG 3010 or ENG 3030	
— (IC) Intermediate Writing	3
—(IC) Writing the Research Paper	3
PSY 1010—(LS) Introductory Psychology	4
PSY 2400 —Developmental Psychology	4
SOC 2000 or ANT 2100	
—(SS) Understanding Human Society	3
—(SS) Introduction to Anthropology	3
NUR 2000 —Conceptual Basis of Professional Nursing Practice	2
NUR 3000 —Assessment: History Taking and Physical Examination	3
NUR 3300 —Pathophysiology Related to Nursing Practice *	2
NUR 3400 —Introduction to Research*	2

NOTE: Pending approval of the University Board of Governors, students entering undergraduate degree programs beginning Fall Term 1998 will follow a revised professional curriculum.

* Not required for students in Accelerated ADN–MSN Program.

General Education Requirements: The student must also demonstrate satisfactory completion of the University General Education Requirements (see page 26), including English Proficiency (EP), Mathematics Competency (MC), Critical Thinking (CT), Computer Literacy (CL) (NUR 1110 recommended), Oral Communication (OC), and UGE 1000 — (GE) The University and its Libraries.

NOTE: Effective Fall 1991, UGE 1000 is not required of students transferring thirteen or more semester credits to Wayne State University.

ADN-MSN Declaration of Graduate Major: Students in the Accelerated ADN-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.

DEGREE REQUIREMENTS

Candidates for the Bachelor of Science in Nursing must complete 127 credits in course work in accordance with the academic procedures of the University and the College; see pages 15-45 and 338-339, respectively.

Residency: The last thirty credits of the degree must be taken at Wayne State.

Honor Point Average: A student must maintain an honor point average of at least 2.0 in total residence credit and in all nursing 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 127 credits required for the Bachelor of Science in Nursing, including sixty-two credits in nursing major courses. The last thirty credits of the degree must be taken at Wayne State University.

Freshman Year

<i>First Semester (Fall)</i>	<i>credits</i>
ENG 1020 —(BC) Introductory College Writing	4
BIO 1510 —(LS) Basic Life Mechanisms (Laboratory)	4
CHM 1020 —(PS) General Chemistry I (Laboratory)	4
PSY 1010 —(LS) Introductory Psychology	4
UGE 1000 —(GE) The University and Its Libraries	1
	Total: 17

Second Semester (Winter)

PSY 2400 —Developmental Psychology	4
BIO 2870 — Anatomy and Physiology (Laboratory)	5
CHM 1030 —General Chemistry II (Laboratory)	4
SOC 2000 or ANT 2100	
—(SS) Understanding Human Society	3
—(SS) Introduction to Anthropology	3
Satisfaction of Mathematics Competency (MC) Requirement	
	Total: 16

Sophomore Year

First Semester (Fall)

BIO 2200 — (LS) Introductory Microbiology (Laboratory)	4
Computer Literacy (CL) proficiency (NUR 1110 recommended)	0-2
Critical Thinking (CT)	0-3
NUR 2000 —Conceptual Basis of Professional Nursing Practice	2
NUR 2110 —Nursing Care of the Well Client	3
NUR 3000 —Assessment: History Taking and Physical Examination	3
	Total: 12-17

Second Semester (Winter)

NUR 2120 —Foundations of Nursing Care in Illness	5
NUR 2210 —Nursing Implications of Drug Administration	2
NUR 3300 —Pathophysiology Related to Nursing Practice	2
NFS 2210 —Human Nutrition	3
Oral Communication (OC)	0-2
	Total: 12-14

Junior Year

First Semester (Fall)

NUR 3120 —Nursing Care of Adults with Complex Health Needs	10
ENG 3010 or ENG 3030	
— (IC) Intermediate Writing	3
— (IC) Writing the Research Paper	3
NUR 3400 —Introduction to Research	2
	Total: 15

Second Semester (Winter)

Philosophy and Letters (PL)	3
Historical Studies (HS)	3
NUR 3210 —Nursing Care of Childbearing Families	5
NUR 3220 —Nursing Care of Childrearing Families	5
	Total: 16

Senior Year

First Semester (Fall)

American Society and Institutions (AI)	3
NUR 4110 —Psychiatric/Mental Health Nursing Care of Individuals & Groups	6
NUR 4150 — Nursing Care of Acutely Ill Adults	4
Foreign Culture (FC) (NUR 4800 recommended)	3
	Total: 16

Second Semester (Winter)

NUR 4120 —(WI) Community Focused Nursing Practice	6
NUR 4220 —Leadership and Management in Nursing Practice	4
NUR 4500 —Perspectives in Nursing	3
Visual and Performing Arts (VP)	3
	Total: 16
Total B.S.N. Credits	127

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 334) the following professional educational courses are required, in addition to a minimum of sixty-two credits in prior baccalaureate and pre-nursing requirements:

First Semester (Fall)

NUR 2000 — Conceptual Basis of Professional Nursing Practice	2
NUR 2110 — Nursing Care of the Well Client	3
NUR 2120 — Foundations of Nursing Care in Illness	5
NUR 2210 — Nursing Implications of Drug Administration	2
NUR 3000 — Assessment: History Taking and Physical Examination	3
NUR 3300 — Pathophysiology Related to Nursing Practice	2
NFS 2210 — Human Nutrition	3
Total:	20

Second Semester (Winter)

NUR 3120 — Nursing Care of Adults With Complex Health Needs	10
NUR 4110 — Psychiatric/Mental Health Nursing Care of Individuals & Groups	6
NUR 3400 — Introduction to Research	2
Total:	18

Third Semester (Spring/Summer)

NUR 3210 — Nursing Care of Childbearing Families	5
NUR 3220 — Nursing Care of Childbearing Families	5
NUR 4500 — Perspectives in Nursing	3
Total:	13

Fourth Semester (Fall)

NUR 4120 — (WI) Community Focused Nursing Practice	6
NUR 4150 — Nursing Care of Acutely Ill Adults	4
NUR 4220 — Leadership and Management in Nursing Practice	4
Total:	14
Nursing credits	62
Non-Nursing credits	65
B.S.N. Total Credits	127

NOTE: Pending approval of the University Board of Governors, students entering undergraduate degree programs beginning Fall Term 1998 will follow a revised professional curriculum.

Senior Level Professional and General Education Requirements for the RN-BSN Program

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 127 credits required for the Bachelor of Science in Nursing. General Education Requirements and liberal arts electives (as needed to bring total number of degree credits to 127) may be taken prior to the senior level professional nursing course work. The last thirty credits in course work must be taken at Wayne State University.

	<i>credits</i>
NUR 4000 — Introduction to Nursing Practice with Groups	3
NUR 4120 — (WI) Community Focused Nursing Practice	6
NUR 4220 — Leadership & Management in Nursing Practice	4
NUR 4500 — Perspectives in Nursing	3
Nursing elective	3
Foreign Culture (FC)	3
Historical Studies (HS)	3
Visual and Performing Arts (VP)	3
Philosophy and Letters (PL)	3
American Society and Institutions (AI)	3

NOTE: Pending approval of the University Board of Governors, students entering undergraduate degree programs beginning Fall Term 1998 will follow a revised professional curriculum.

Senior/Graduate Level Professional and General Education Requirements for the Accelerated ADN-MSN Program

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 comprise the balance of the 127 credits required for the Bachelor of Science in Nursing. General Education Requirements and liberal arts electives (as needed to bring total number of degree credits to 127) may be taken prior to the senior level professional nursing course work. The last thirty credits in course work must be taken at Wayne State University.

Required Senior Level Professional and General Education Requirements

NUR 4120 — (WI) Community Focused Nursing Practice	6
NUR 4220 — Leadership & Management in Nursing Practice	4
Nursing elective	3
Foreign Culture (FC)	3
Historical Studies (HS)	3
Visual and Performing Arts (VP)	3
Philosophy and Letters (PL)	3
American Society and Institutions (AI)	3

Required Graduate Level Professional Requirements

NUR 7010 — Research in Nursing	3
NUR 7100 — Theoretical Foundations of Nursing Practice	3
NUR 7190 — Nursing Care of Groups & Families (not required for some grad. majors)	3
Two additional NUR courses	6

The graduate level courses above (total fifteen credits) may be applied toward the Master of Science in Nursing degree for students admitted to graduate study in the College of Nursing. Once admitted to the MSN program, completion of degree requirements will require up to an additional thirty-seven credits in graduate course work, depending on the nursing major. Graduate majors include: Adult Primary Care Nursing/Gerontological Nurse Practitioner, Adult Acute Care Nursing/Adult Critical Care Nursing, Advanced Psychiatric Mental Health Nursing, Community Health Nursing, Nursing, Parenting, and Families, and Nursing Care Administration.

NOTE: Pending approval of the Board of Governors, students entering undergraduate degree programs beginning Fall Term 1998 will follow a revised professional curriculum.

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** means any course required in the professional nursing curriculum.
2. **Satisfactory grade** means a grade of 'C' or better.
3. **Unsatisfactory grade** means a grade of 'D' or below, or a mark of 'X' or an unauthorized mark of 'W.'
4. **Probation** means 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 Status* 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 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. Students graduating from the Traditional and Second

Career/Second Degree Programs are required to complete a series of diagnostic tests and 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 (2.00) honor point average in both: a) cumulative grades (general education and nursing); and b) professional nursing courses.
2. Students must achieve a 2.00 h.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 2.00 has been achieved.
3. A grade of 'D' 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 2.00 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 Affairs.
7. A student receiving a 'D' grade or less in either the theory or the clinical portion of any nursing course will have recorded no higher than a 'D' for the total course and will be required to successfully complete the re-entry process to repeat it before progressing to the next clinical core 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 honor point average of 2.00.
2. A student is placed on probation if he/she does not maintain a minimum honor point average of 2.00 in professional nursing courses.
3. An honor point average must be returned to a minimum of 2.00 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 37.

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 honor point average at Wayne State must be 3.75 or above in order to qualify for the Dean's List. The Honors List requires a minimum honor point average of 3.50. Lists of students on the Dean's List and Honors List will be posted in the College of Nursing.

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 the College of Nursing and otherwise becoming informed and fulfilling all course and degree requirements in proper sequence with satisfactory scholarship.* 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.

A student may be required to withdraw from the College when, in the judgment of the faculty, behavior demonstrates that the student is unsuited for nursing. (See also Exclusion, above.)

Student Rights and Responsibilities for the University: see page 43.

Financial Assistance

The University Office of Scholarships and Financial Aid, 3 West, Helen Newberry Joy Student Services Center (see page 21), 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 h.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 h.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 h.p.a. of 3.0, qualities of leadership, and financial need.

Gloria Ann Colquhoun Memorial Scholarship: Award open to any full-time nursing student; selected on the basis of scholastic achievement, qualities of leadership, and financial need.

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.

Carol Peterson Rosso Award: Award open to senior students with outstanding scholastic achievement and financial need.

Steiger Memorial Scholarship: Award open to any nursing student with demonstrable financial need.

Mabel Wandelt Scholarship: Award open to any registered nurse in the baccalaureate program who has completed sixty per cent of the credits for the BSN degree with an h.p.a. of 3.0 or above, qualities of leadership, and an agreement to enroll at least half-time following the award.

Wayne County Medical Society Auxiliary Scholarship in Nursing: Award open to nursing students with a minimum 3.0 h.p.a. and demonstrated financial need.

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 the University Placement Services, 1001 Faculty/Administration Building.

UNDERGRADUATE COURSES (NUR)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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. (F,W)

2000. Conceptual Basis of Professional Nursing Practice. Cr. 2

Introduction to the discipline and profession of nursing through the examination of historical aspects, conceptual models and theories, the relationship of research to theory and practice, roles of the professional nurse, standards of nursing practice, and legal and ethical issues related to nursing practice. (F,S)

2110. Nursing Care of the Well Client. Cr. 3

Prereq: admission to College of Nursing; pre. or coreq: NUR 2000, 3000, BIO 2200, PSY 2400. BCLS–C certification, liability insurance, health clearance required. Focus on basic human needs throughout life span; applications of normal growth and development theories, human interaction and therapeutic relationships. Amplification of use of nursing process; concepts of family, community, culture, and caring. Pharmacologic mathematics competency requirement. (F)

2120. Foundations of Nursing Care in Illness. Cr. 5

Prereq: NUR 2000, 2110, 3000; BIO 2200; coreq: NUR 2210 and 3300. BCLS–C certification, liability insurance, health clearance required. Material fee as indicated in *Schedule of Classes*. Basic human needs throughout the life span in times of illness. Nursing process: development of biophysical and psycho-social nursing diagnoses and acquisition of psychomotor skills. Nursing care provided to persons with minimal health care needs. (W)

2210. Nursing Implications of Drug Administration. Cr. 2

Prereq: BIO 2870, NUR 2000, NUR 2110; coreq: 2120. Focus is on knowledge of the science of drugs and application of this knowledge in providing nursing care. Role and responsibilities of the nurse as related to drug therapy. (F,W)

3000. Assessment: History Taking and Physical Examination. Cr. 3

Prereq: admission to the College of Nursing or R.N. licensure in Michigan; anatomy and physiology course; coreq: NUR 2110. Material fee as indicated in *Schedule of Classes*. Concepts, knowledge and psychomotor skills for obtaining systematic health history and performing a basic physical examination of the adult. Content and activities relate to all body regions and systems. (T)

3120. Nursing Care of Adults with Complex Health Needs. Cr. 5–10

Prereq: NUR 2000, 2110, 2120, 2210, 3000, 3300, NFS 2210; coreq: ENG 3010 or ENG 3030. BCLS–C certification, liability insurance, health clearance required. Holistic health care provided to adults experiencing acute or complex health problems. Comprehensive assessment skills developed to provide and evaluate holistic care. Nursing diagnoses related to complex health problems of adults, ethical decision-making, research utilization, development of psychomotor skills in managing health needs of hospitalized adults. (F,W)

3210. Nursing Care of Childbearing Families. Cr. 5

Prereq: NUR 3000, 3120; prereq. or coreq: 3400. BCLS–C certification, liability insurance, health clearance required. Health responses, human care, and environmental factors of the family during the perinatal period, studied from a pluralistic nursing theory framework. Nursing, developmental and family theories, and related research as incorporated within the nursing process. Nursing care focuses on families experiencing childbearing as a situational crisis with potential for growth. (W,S)

3220. Nursing Care of Childrearing Families. Cr. 5

Prereq: NUR 3000, 3120; prereq. or coreq: 3400. BCLS–C certification, liability insurance, health clearance required. Nursing, developmental and family theories and related research to promote health and provide care for childrearing families with children experiencing acute and chronic health problems. Promotion of growth development of children with altered health status; functioning of family as a unit. (W,S)

3300. Pathophysiology Related to Nursing Practice. Cr. 2

Prereq: an anatomy and a physiology course, including laboratory. No credit after IHS 3100 and IHS 3200. Pathophysiologic process as related to normal physiology, signs and symptoms of disease, laboratory tests and applications to nursing. (T)

3400. Introduction to Research. Cr. 2

Prereq: NUR 2000, 2120, computer literacy or 1110. Introduction to the research process in nursing. Relationship of research methods to the study of nursing problems. (T)

4000. Introduction to Nursing Practice with Groups. Cr. 3

Prereq: admission to senior year in nursing; Michigan R.N. licensure. Open only to Registered Nurses; BCLS–C certification, liability insurance, health clearance required. Theories of communication, group process and dynamics, learning theories, principles of teaching, conflict resolution, and decision-making strategies. Nursing is practiced within a community setting, focusing on development of leadership and health promotion skills. (F)

4110. Psychiatric/Mental Health Nursing Care of Individuals and Groups. Cr. 6

Prereq: senior standing. BCLS–C certification, liability insurance, health clearance required. Theory-based practice in providing health care to individuals of all ages and groups with varying degrees of psychiatric-mental health needs. Emphasis on group process and

dynamics, promotion of personal and community mental health, humanistic care of the acutely and chronically ill client. (F,S)

4120. (WI) Community Focused Nursing Practice. Cr. 6

Prereq: senior standing. BCLS-C 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. Satisfies the University General Education Writing Intensive Course in the Major requirement. (W,S)

4150. Nursing Care of Acutely Ill Adults. Cr. 4

Prereq: senior standing. Senior level course on care of acutely ill adults hospitalized with complex health care needs. Advancement of clinical knowledge, clinical judgement, critical thinking, and transitional care management of patient groups in a multidisciplinary environment. (T)

4190. Nurse Externship in Clinical Nursing Practice. Cr. 3

Prereq: senior standing. Expanded theory and professional development of the student nurse in class and clinical setting. Application of theory to practice with groups of clients in the health care system. (S,F)

4200. Special Topics in Care of the Physically Ill Adult. Cr. 3

Prereq: senior standing. BCLS-C certification, liability insurance, health clearance required. Student selects one of the following topics for in-depth study: oncology nursing; critical care nursing; general medical-surgical nursing; legal and/or ethical issues in nursing practice. (T)

4220. Leadership and Management in Nursing Practice. Cr. 4

Prereq: senior standing, NUR 4110, 4120. BCLS-C certification, liability insurance, health clearance required. Organizational and management theories. Health care delivery systems, planned change theory, role conflict theory and research related to leadership and management. Students function in nurse manager/leader role in the clinical setting. (F,W)

4280. Special Topics in Psychiatric Mental Health Nursing. Cr. 1-4

Prereq: senior standing. BCLS-C certification, health clearance, liability insurance required. Provides senior nursing students with an opportunity to explore in depth an aspect of psychiatric-mental health nursing. Topics: human sexuality and mental health; emotionally disturbed child; psychological responses to physical illness; community mental health nursing. Mental health needs of the adolescent; the after-care of patients; mental health care of the aging person; child psychiatric mental health nursing, addictions nursing. (Y)

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)

4500. Perspectives in Nursing. Cr. 3

Prereq: senior standing or consent of instructor. Issues related to nursing education, practice, research, and health care delivery in the United States and other selected countries. Professionalism; responsibilities for provision of and decisions about health care and the profession. (T)

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 Affairs. (T)

6050. Nursing Information Systems. Cr. 3

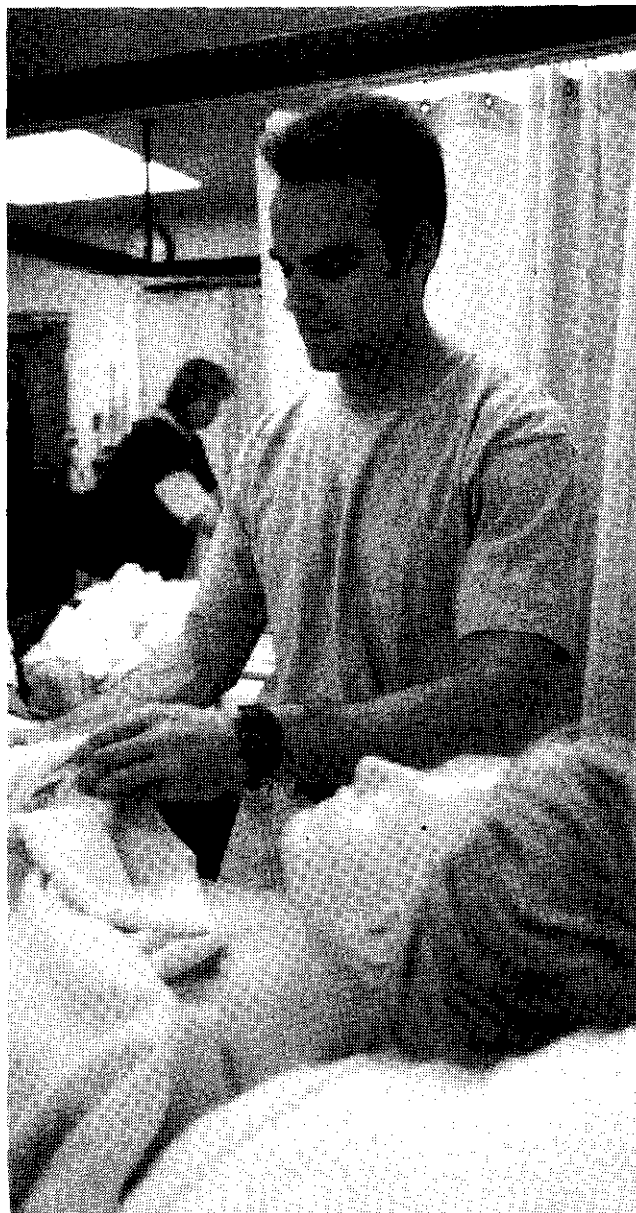
Prereq: computer literacy. Development of proficiency in use of nursing data and information systems for nursing information, clinical management and research. Ethical and moral implications of computerized information systems and proposed future directions for practice. (Y)

6510. Nursing Economics and Health Care Policy. Cr. 3

Examination of the major health policy and economic issues affecting health care delivery and the role of the nurse. Analysis of health care policy and assessment of the cost of nursing practice. (F,W)

6740. Theoretical Perspectives in Rehabilitation Nursing. Cr. 3

Prereq: B.S.N. or equiv. Developing conceptual framework for providing services to rehabilitation clients. Concepts, theories, current issues of rehabilitation nursing and science. Essential values for practitioners and researchers; role of nurse in rehabilitation setting. (I)



**COLLEGE OF PHARMACY and ALLIED
HEALTH PROFESSIONS**

DEAN: George C. Fuller

Foreword

The College of Pharmacy and Allied Health Professions 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 housed in Shapero Hall, 1400 Chrysler, and the Shapero Annex, 1390 Chrysler. It is in the heart of the principal metropolitan area of Michigan, as well as being in the vicinity of the Detroit Medical Center, the Wayne State University School of Medicine and Shiffman Medical Library. This location provides a wealth of settings in which students may participate as part of their professional development.

Accreditation

Wayne State University is accredited by the North Central Association and all professional programs in the College of Pharmacy and Allied Health Professions are accredited by their respective agencies.



DEGREES

Upon completion of the requirements listed in each of the programs, the College of Pharmacy and Allied Health Professions grants the following:

BACHELOR OF SCIENCE in Clinical Laboratory Science

BACHELOR OF SCIENCE in Allied Health Sciences
—Cytotechnology Concentration
—Physical Therapy Concentration

BACHELOR OF SCIENCE in Mortuary Science

BACHELOR OF SCIENCE in Occupational Therapy

BACHELOR OF SCIENCE in Pathologists' Assistant

BACHELOR OF SCIENCE in Pharmacy

BACHELOR OF SCIENCE in Radiation Therapy Technology

**DOCTOR OF PHARMACY with a major in Clinical Pharmacy*

**MASTER OF SCIENCE with majors in*

Health Systems Pharmacy Management

Occupational and Environmental Health Sciences with specialization in

Industrial Hygiene

Industrial Toxicology

Occupational Medicine

Pharmaceutical Sciences with specialization in

Medicinal Chemistry

Pharmaceutics

Pharmacology/Toxicology

**MASTER OF SCIENCE in Anesthesia*

**MASTER OF SCIENCE in Clinical Laboratory Science with specialization in*

Clinical Laboratory Instrumentation

Education/Management

Hematology

**MASTER OF SCIENCE in Occupational Therapy*

**MASTER OF SCIENCE in Physician Assistant Studies*

**MASTER IN PHYSICAL THERAPY*

**DOCTOR OF PHILOSOPHY with a major in Pharmaceutical Sciences with specialization in*

Medicinal Chemistry

Pharmaceutics

Pharmacology/Toxicology

* For specific requirements, consult the Wayne State University Graduate Bulletin.

COLLEGE DIRECTORY

Dean:

George C. Fuller 105 Shapero Hall; 577-1574

Associate Dean for Academic Affairs:

Hanley N. Abramson 121 Shapero Hall; 577-1711

Academic Services Officer

Michael G. Koltuniak 139 Shapero Hall; 577-1716

Administrative Assistant Dean:

Gerald W. Aldridge 103 Shapero Hall; 577-1708

Graduate Officer:

Gary D. Fenn 121 Shapero Hall; 577-0820

Assistant Dean, Student Affairs:

Wynefred H. Schumann 143 Shapero Hall; 577-1719

Assistant to the Dean:

Billie L. Brown 127 Shapero Hall; 577-1574

Business Manager:

Mary R. Donahue 101 Shapero Hall; 577-1576

Continuing Education Programs:

Paul J. Munzenberger 337 Shapero Hall; 577-5384

Minority Recruitment and Retention:

T. Delores Clark 145 Shapero Hall; 577-4814

Registrar:

Larry J. Zimmerman 139 Shapero Hall; 577-1716

Faculty of Pharmacy

Pharmaceutical Sciences:

George B. Corcoran 528 Shapero Hall; 577-1737

Pharmacy Practice:

Richard L. Slaughter 328 Shapero Hall; 577-0824

Susan C. Fagen 339 Shapero Hall; 876-1779 or 577-0824

Faculty of Allied Health Professions

Anesthesia:

Prudentia A. Worth . . . 2V-4, Detroit Receiving Hospital; 745-3610

Clinical Laboratory Science:

Gerald W. Aldridge 233 Shapero Hall; 577-1384

Mortuary Science:

Mary Louise Fritts-Williams . . . 102 Mortuary Science; 577-2050

Occupational and Environmental Health Sciences:

David J.P. Bassett 628 Shapero Hall; 577-1551

Occupational Therapy:

Susan Esdaile 309 Shapero Hall; 577-1435

Physical Therapy:

Louis R. Amundsen 435 Shapero Hall; 577-1432

Radiation Therapy Technology:

Diane K. Chadwell 117 Shapero Hall Annex; 577-1137

Mailing address for all offices: College of Pharmacy and Allied Health Professions, Wayne State University, Detroit, Michigan 48202.

FACULTY OF PHARMACY

History

The Faculty of Pharmacy is the component of the College of Pharmacy and Allied Health Professions offering a program of professional pharmaceutical education at the undergraduate, graduate and graduate-professional levels. This unit of the College of Pharmacy and Allied Health Professions 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

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.

The Profession of Pharmacy

The practice of pharmacy is a diverse and challenging health care profession of broad scope. One of the great appeals of the profession of pharmacy is the variety of positions available to pharmacists. Completion of the pharmacy program qualifies pharmacists for practice in a community pharmacy, hospital or related institution, industrial or distributive complex, governmental or private agency, laboratory, professional organization or other health care settings.

According to State of Michigan law, the practice of pharmacy is a health service, the clinical application of which includes the assurance of safety and efficacy in the prescribing, dispensing, administering, monitoring, and use of drugs and related articles for the prevention of illness, and the maintenance and management of health leading to improved quality of life.

Students who complete the professional programs in pharmacy enter community, hospital practice, or industry. Graduate programs are available to exceptional students who aspire to careers in academia, research, and specialized pharmacy practice.

The Faculty of Pharmacy encourages its students to acquire the education to practice the profession of pharmacy, develop the desire and ability to keep abreast of growing knowledge in the healing arts or health sciences, make contributions to their profession which they gladly share with others, and have a willingness to accept the responsibility of wise community leadership.

Because the profession of pharmacy offers many opportunities, the Faculty is dedicated to preparing its students for broad practice, rather than preparing them for a single place of practice within pharmacy.

Accreditation

Wayne State University's Doctor of Pharmacy and Baccalaureate in Pharmacy programs are accredited by the American Council on Pharmaceutical Education, 311 West Superior Street, Suite 512, Chicago, IL 60610, 312/664-3575, 800/533-3606; Fax, 312/664-4652.

The degree of Bachelor of Science in Pharmacy conferred by the College is recognized by all state boards of pharmacy.

Degrees

BACHELOR OF SCIENCE in Pharmacy

**DOCTOR OF PHARMACY with a major in clinical pharmacy*

**MASTER OF SCIENCE with majors in
health systems pharmacy management
pharmaceutical science with specialization in
medicinal chemistry,
pharmaceutics,
pharmacology/toxicology*

**DOCTOR OF PHILOSOPHY with a major in
pharmaceutical sciences with specialization in
medicinal chemistry,
pharmaceutics,
pharmacology/toxicology*

* For specific requirements, consult the Wayne State University Graduate Bulletin.

PHARMACY PRACTICE

Office: 328 Shapero Hall; 577-0824

Chairperson: Richard L. Slaughter

Associate Chairperson: Susan C. Fagin

Professors

Michael J. Rybak, Richard L. Slaughter

Adjunct Professors

Richard L. Lucarotti, Douglas A. Miller, Larry K. Shoup, Barbara J. Zarowitz

Associate Professors

David J. Edwards, Susan C. Fagan, Gary D. Fenn (Emeritus), Linda A. Jaber, Paul J. Munzenberger, James E. Tisdale, Wynefred H. Schumann, Maureen A. Smythe, James G. Stevenson, Jesse C. Vivian

Adjunct Associate Professors

J.V. Anandan, Paul W. Bush, Kenneth H. Fish, Michael Powell, Gregory S. Umstead, Bruce E. Vinson

Assistant Professors

Dianne Cappelletty, Pramodini B. Kale, Patty Keys, Martha J. Miller, Nikki Milan, Lynette Moser, Renu Singh, Geralynn B. Smith, Mark Touchette, Jacquelyn Wilson

Adjunct Assistant Professors

David S. Bach, Elaine M. Bailey, Julie R. Berman, Len Billingsley, Daniel M. Colaluca, Philip Cole, William A. Cornelis, William Drake, Gerald L. Emmer, Richard H. Jennings, Barry Kerath, Beverly P. Kershaw, Ronald H. Lukasiewicz, Mark E. Mlynarch, Merlin V. Nelson, Cynthia L. Quince, Randy F. Schad, Richard Smolarek, Mary Jane Sudekum, Edward G. Szandzik, Mark A. Touchette, Paul C. Walker, Cindy M. Weingarten, David B. Wright, Chris Zimmerman

Adjunct Instructors

Maudestine Bell, Gerald E. Bodendistel, Marija G. Brandoline, Brian O. Brown, Lawrence Cantor, E. Philip Cole, Glenn R. Currier, John S. Dryps, Carol R. Hillman-Wiseman, Ervin A. Galecki, Sandra M. Gryebet, Dennis B. Halstead, Rayne A. Henderson, Thomas R. Jantz, Kevin L. Kaufmann, G. Richard Krieger, Kerry F. Manseau, Allen N. Marmalad, Ronald A. McEachen, Thomas P. Michalski, Jerome D. Mills, Mark E. Mlynarek, Deborah Njus, Mary E. Peters, Leonard W. Ptak, Thomas F. Rolands, David Ruta, Deborah H. Schweyen, Prakash Shah, Elizabeth A. Simpson, Edward G. Szandzik, Cheryl A. Szof, Steven J. Tebay, Mary C. Thorsby, Virginia Tekieli, Karl W. Widak, Moses C. Wu

PHARMACEUTICAL SCIENCES

Office: 528 Shapero Hall; 577-1737
 Chairperson: George B. Corcoran

Professors

Hanley N. Abramson, Harold E. Bailey (Emeritus), Martin Barr (Emeritus), Raymond J. Dauphinais (Emeritus), Melvin F. W. Dunker (Emeritus), George C. Fuller, Fusao Hirata, Robert T. Louis-Ferdinand, Willis E. Moore (Emeritus), Janardan B. Nagwekar (Emeritus), Henry C. Wormser

Adjunct Professor

David J.P. Bassett

Associate Professors

Randall L. Commissaris, William J. Lindblad, Richard K. Mulvey (Emeritus), Craig K. Svensson, Patrick M. Woster

Adjunct Associate Professors

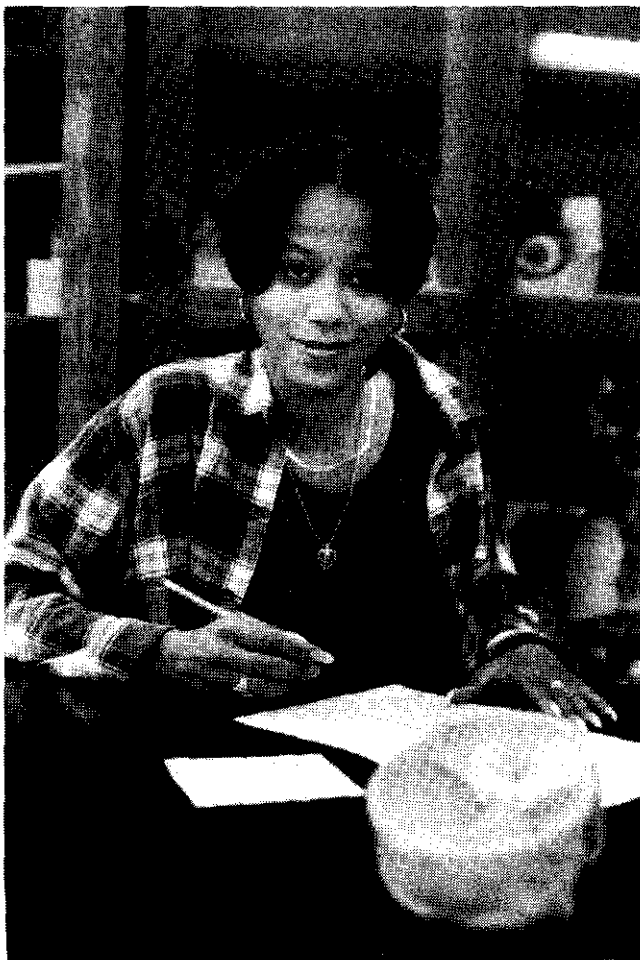
Merlin E. Ekstrom, Eun W. Lee, Joel G. Pounds, Alice M. Young

Assistant Professors

Debayo Bolarin, Richard A. Gibbs, David K. Pitts

Adjunct Assistant Professors

John J. Nagelhout, Francis R. Gerbasi, Steven E. Rose



BACHELOR OF SCIENCE IN PHARMACY

The minimum undergraduate program of all nationally accredited colleges of pharmacy is one of five academic years. Candidates for the degree of Bachelor of Science (Pharmacy) must complete sixty semester credits of acceptable pre-professional courses. These credits may be taken at Wayne State University, another university or college or a community college, and then apply for admission to the professional program of Pharmacy in the College of Pharmacy and Allied Health Professions.

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 \$20.00 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 \$30.00 non-refundable application fee, with the admission office. Professional Pharmacy Curriculum applications are available after November 1. Application deadline to the professional program is March 1.

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.

In order to be considered for professional program admission, applicants must have their completed application, including official transcripts and supporting documents necessary for admissions consideration, submitted by March 1 for Fall admission.

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 Bachelor of Science in Pharmacy degree. Requirements to be completed prior to admission to the pharmacy curriculum are:

1. Completion of sixty semester credits including the core courses listed below.
2. Completion of each of the following core courses (or their equivalents) with the grade of 'C' (2.0 h.p.a.) or better. Grades of 'C-minus' or below, or numerical grades below 2.0 h.p.a., are not acceptable.

First and Second Years — Preprofessional Core

credits

	credits
BIO 1510 —(LS) Basic Life Mechanisms (lab required)	4
BIO 2200 — (LS) Introductory Microbiology (lab required)	4
CHM 1070 —(PS) Principles of Chemistry I (lab required)	4
CHM 1080 —Principles of Chemistry II (lab required)	5
CHM 2240 —Organic Chemistry I	4
CHM 2260 —Organic Chemistry II	4
ECO 1000 or 2010 or 2020	
—(SS) Survey of Economics	4
—(SS) Principles of Microeconomics	4
—(SS) Principles of Macroeconomics	4
MAT 2010 —Calculus I	4
PHY 2130 —(PS) General Physics (lab required)	4
PHY 2140 —General Physics (lab required)	4
P S 1010 —(AI) American Government	4
STA 1020 — Introductory Statistics	3

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.

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.

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.

Computer Literacy (CL) Competency: CSC 1000 or 1010. 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.

Mathematics Competency Requirement: Transfer students may fulfill this competency by transferring credit for the equivalent of MAT 2010.

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.

Because of rapid changes in technology, preprofessional science credits must be completed within five years prior to admission to the professional program.

Students must complete additional University General Education Requirements (see below, and page 26), 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:

General Education Requirements: see page 26. 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 (contact Pharmacy Registrar for specific course recommendations):

Historical Studies (HS)	3
Foreign Culture (FC)	3
Visual and Performing Arts (VP)	3
Philosophy and Letters (PL)	3
UGE 100 —(GE) The University and its Libraries	1

(Effective Fall 1991, UGE 1000 is not required of students transferring thirteen or more semester credits to Wayne State University.)

DEADLINES: Deadline for submission of complete application materials, including all supporting documents, is March 1. Applicants must submit proof of successful completion of all science and mathematics prerequisites by June 15. Proof of successful completion of all other prerequisites, competencies, and the English Proficiency Examination is due by August 10. Interim and midterm grade reports are not acceptable.

Professional Program Admission

Admission to the Pharmacy Curriculum is granted *only* for the Fall semester. Enrollment in the professional pharmacy curriculum is limited to applicants who have met the general University admissions requirements and present evidence of professional admissibility and promise of academic and professional competence in pharmacy.

Application: For admission to the pharmacy curriculum, applicants must submit an *Application for Admission to Undergraduate Professional Programs, College of Pharmacy and Allied Health Professions*. All of the necessary application forms are available from: Wayne State University College of Pharmacy and Allied Health Professions, Office of the Registrar, 139 Shapero Hall, Detroit, Michigan 48202.

Application Deadline: The pharmacy application and all supporting transcripts and documents must be submitted by March 1.

Admission to the Pharmacy professional 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 honor point average (h.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 honor point average (h.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 complete the Wayne State University English Proficiency Requirement.

8. Applicants whose first language is not English must pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550.

9. A personal interview with a member of the Faculty of Pharmacy Admissions Committee is offered and may be required.

Transferring Students: A student who anticipates admission to the Wayne State University College of Pharmacy curriculum by transferring from a community college, university, or college outside Wayne State must complete an *Application to Wayne State University in addition to the Application for the College of Pharmacy and Allied Health Professions*. The student is urged to complete the Wayne State Application no later than February 1.

Post-Degree Students: Students with a baccalaureate degree from this college or another 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 cannot be converted to graduate credit.

Readmission Following an Interruption in Residence: Undergraduate students whose attendance in the pharmacy curriculum has been interrupted for two or more consecutive semesters are required to apply for readmission at the Office of the Registrar, College of Pharmacy and Allied Health Professions, 139 Shapero Hall. Deadline date for such applications is March 1.

Degree Requirements

The Bachelor of Science in Pharmacy program consists of a total of five years of academic study and a minimum of 163 semester credits: sixty-two to seventy-four credits in preprofessional and General Education courses and 101 credits in professional courses. These include the core curriculum required in the pre-pharmacy program (see above, page 348), elective and/or specific courses to satisfy the University General Education Requirements (see page 20), the pharmacy curriculum as outlined below, and the clinical externship (see page 349). All course work must be done in compliance with the academic procedures of the University (see pages 15-45) and the College (see page 354) as well as the following standards:

Residence: a student must have devoted at least three academic years to resident study in an accredited college or colleges of pharmacy, of which the final professional year and last thirty credits must be taken at the Wayne State University College of Pharmacy and Allied Health Professions.

Honor Point Average: a student must maintain an honor point average of at least 2.0 in total residence credit and in all pharmacy 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 shown below, and meet any course prerequisite or corequisite, unless excused from doing so by the Dean.

PHARMACY CURRICULUM

First Professional Year

<i>Fall Semester</i>	<i>credits</i>
IHS 3100— Basic Mechanisms of Human Disease I	5
PSC 3110 — Pharmaceutical Biochemistry I	2
PSC 3120 — Dosage Form Design and Biopharmaceutics	4
PSC 3130 — Principles of Drug Analysis	2
PPR 3110 — Pharmaceutical Calculations	1
PPR 3120 — (WI) Jurisprudence	2
	Total: 16

Winter Semester

IHS 3200— Basic Mechanisms of Human Disease II	5
IHS 3210 — Basic Mechanisms of Human Disease: Laboratory	1
PSC 3210 — Pharmaceutical Biochemistry II	3
PPR 3210 — Orientation to Pharmacy	1
PPR 3240 — Pharmaceutical Compounding and Dispensing	2
PPR 3250 — Pharmaceutical Compounding and Dispensing: Laboratory	1
PPR 3230 — Non-Prescription Medication	3
	Total: 16

Spring Semester

PSC 3310 — Principles of Drug Disposition	4
PSC 3320 — Principles of Drug Action	2
	Total: 6

Second Professional Year

Fall Semester

PHA 4110 — Autonomic Pharmacology	1
PHA 4120 — Fluids and Electrolytes/Renal	1
PHA 4130 — Immunology & Inflammatory Disorders; Hematology	2
PHA 4140 — Endocrine and Respiratory Systems	2
PHA 4150 — Cardiovascular Systems	4
PHA 4160 — Gastroenterology/Nutrition	2
PPR 4110 — Patient Education and Counseling	2
	Total: 14

Winter Semester

PHA 4170 — Oncology	2
PHA 4210 — Infectious Diseases	4
PHA 4220 — Neurology	2
PHA 4230 — Psychiatry/Drug Abuse	2
PHA 4240 — Clinical Toxicology	1
PHA 4250 — Special Patient Populations	1
PPR 4210 — (WI) Pharmacy Management	4
	Total: 16

Third Professional Year

During the third professional year, students will be required to complete seventeen semester credits of didactic courses to include the following:

PPR 5000— (WI) Drug Literature Evaluation	2
PPR 5280— Ethics and Professional Responsibility	2
PPR 5290 — Pharmacy Practice and the Health Care System	3
PPR 6110 — Drug-Induced Diseases	2
PPR 6120 — Home Health Care	3
PPR 6210 — Intravenous Therapeutics	2
Professional Elective	3
	Total: 17

In addition, students are required to complete fifteen to sixteen credits in experiential externships/clerkships. Students must consult with academic advisers to plan the third professional year. Completion of the third professional year may require enrollment in spring/summer semester courses.

Clinical Externship Requirement

In order to provide the pharmacy student with training in the application of the scientific knowledge he/she has gained throughout the pharmacy curriculum, an externship is provided. This externship gives the senior student an opportunity to apply his/her pharmaceutical training in a variety of patient-care settings in community and hospital locations within the metropolitan Detroit area. Each student in the externship is individually assigned to varying types of experiences with

a total time allocation in excess of 465 hours. The externship is required of all students. The student must provide his/her own transportation and professional liability insurance.

Pharmacist Licensure

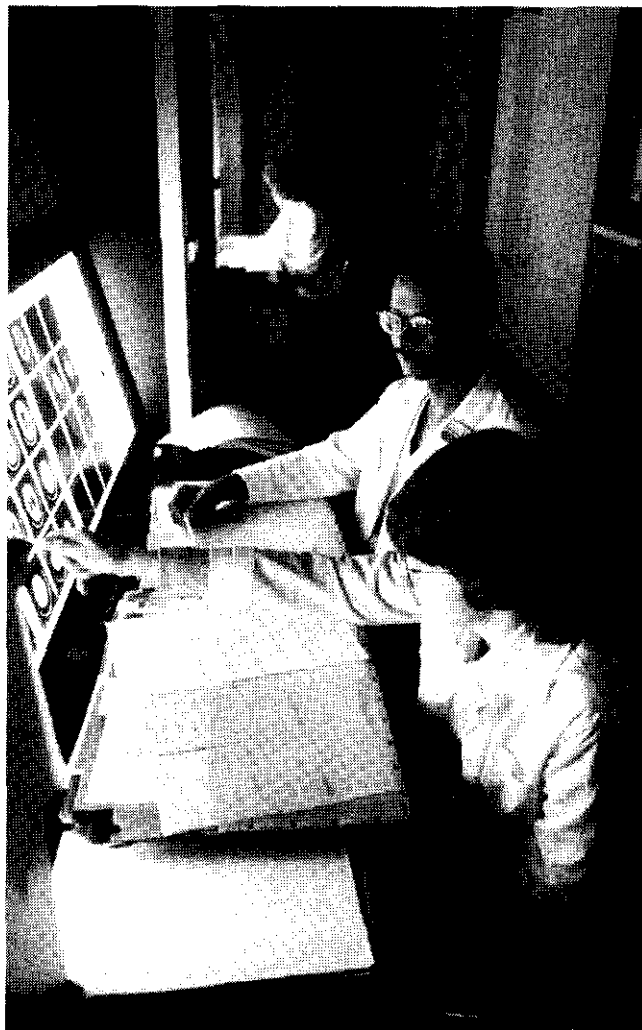
Licensure as a pharmacist is available to graduates of the professional pharmacy programs of the College of Pharmacy and Allied Health Professions, either by examination or by reciprocity, in all states and in the District of Columbia.

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: The Executive Secretary, Michigan State Board of Pharmacy, 611 W. Ottawa Street, P. O. Box 30018, Lansing, Michigan 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

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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 (IHS)

3100. Basic Mechanisms of Human Disease I. Cr. 5

Prereq: BIO 1510 or equiv. Material fee as indicated in *Schedule of Classes*. First part of two-semester sequence: anatomy, physiology, and pathology of human organ systems. (F)

3200. Basic Mechanisms of Human Disease II. Cr. 5

Prereq: IHS 3100. Material fee as indicated in *Schedule of Classes*. Continuation of IHS 3100. Second part of two-semester sequence. (W)

3210. Basic Mechanisms of Human Disease: Laboratory. Cr. 1

Prereq: IHS 3100; coreq: 3200. Prosections to understand anatomical relationships. (W)

3300. Pharmacology for Allied Health Professions. Cr. 1

Prereq: IHS 3100, 3200 or equiv. Open only to allied health professions students. Basic course for allied health professions students in mechanisms of drug action (pharmacodynamics), and the use of drugs in the prevention and treatment of disease (pharmacotherapeutics). (S)

PHARMACEUTICAL SCIENCES (PSC)

3110. Pharmaceutical Biochemistry I. Cr. 2

Prereq: admission to professional curriculum. Material fee as indicated in *Schedule of Classes*. Survey of biological chemistry, mechanisms of action of drug molecules, and other facets pertinent to the pharmaceutical sciences. (F)

3120. Dosage Form Design and Biopharmaceutics. Cr. 4

Prereq: admission to professional curriculum. Material fee as indicated in *Schedule of Classes*. Principles of dosage form design and introduction to biopharmaceutics. (F)

3130. Principles of Drug Analysis. Cr. 2

Prereq: admission to professional program. Analytical techniques pertinent to pharmacy practice, encompassing procedures based on chromatography, spectroscopy, and immunological or enzymatic reactions. (F)

3210. Pharmaceutical Biochemistry II. Cr. 3

Prereq: PSC 3110. Material fee as indicated in *Schedule of Classes*. Continuation of PSC 3110. (W)

3310. Principles of Drug Disposition. Cr. 4

Prereq: IHS 3200, IHS 3210, PSC 3210, PPR 3240; coreq: PSC 3320. Basic principles and applications of pharmacokinetics, drug metabolism, and pharmacogenetics. (Y)

3320. Principles of Drug Action. Cr. 2

Prereq: IHS 3200, IHS 3210, PSC 3210; coreq: PSC 3310. General principles of pharmacology and medicinal chemistry. (Y)

4100. Pharmacology I. Cr. 5

Prereq: IHS 3200; coreq: PSC 4300. General principles of pharmacology and toxicology; influence of drugs on the autonomic, cardiovascular and excretory systems. (F)

4200. Pharmacology II. Cr. 4

Prereq: PSC 4100; coreq: 4400. Action of drugs on the central nervous system (such as stimulants, psychotropics, analgesics, general anesthetics); local anesthetics. Endocrine products and synthetics used as medicinal agents; influence of drugs on endocrine secretions. Drugs influencing the gastrointestinal tract and lungs. (W)

5300. Fundamentals of Controlled Release Drug Delivery Systems. Cr. 2

Prereq: PSC 4010. Presentation and discussion of the physicochemical and pharmacokinetic principles and rationale utilized in drug delivery systems designed for controlled release of drugs to produce their therapeutic effects with minimum side effects. (W)

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. (Y)

5860. Seminar in Pharmaceutics. 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. (T)

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. (T)

5990. Directed Study in Medicinal Chemistry. Cr. 1-3(Max. 3)

Prereq: consent of instructor. Open only to undergraduates in good academic standing. (T)

5991. Directed Study in Pharmaceutics. Cr. 1-3(Max. 3)

Prereq: consent of instructor. Open only to undergraduates in good academic standing. (T)

5992. Directed Study in Pharmacology. Cr. 1-3(Max. 3)

Prereq: consent of instructor. Open only to undergraduates in good academic standing. Material fee as indicated in *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)

6100. Survey of Pharmacology I. Cr. 3

Prereq: BIO 3400, CHM 2260, MAT 2010; graduate standing or consent of instructor. Survey of pharmacology for entering graduate students in the pharmaceutical sciences. Emphasis on new drug development. (F)

6200. Survey of Pharmacology II. Cr. 3

Prereq: PSC 6100. Continuation of PSC 6100. (W)

6600. (PPR 6600) Biostatistics. Cr. 3

Prereq: last professional year, graduate, or graduate professional standing. Student computer account required. Use and interpretation of statistical tools in the pharmaceutical and clinical literature. (F)

6720. Techniques in Animal Experimentation. Cr. 1

Prereq: consent of instructor. Ethical, legal, and experimental considerations of animal experimentation. Training in the humane care of animals; techniques used in pharmaceutical research. (Y)

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. Material fee as indicated in *Schedule of Classes*. Study of toxicology and adverse drug reactions including metabolism, hypersensitivity, carcinogenicity, drug-drug interactions, and other factors hazardous to human health. (Y)

PHARMACY (PHA)

4110. Pharmacotherapeutics I: Autonomic Pharmacology. Cr. 1

Prereq: PSC 3310, PSC 3320, PPR 3230. Pharmacy and medicinal chemistry of drugs that act on the autonomic nervous system. (F)

4120. Pharmacotherapeutics II: Fluid and Electrolytes/Renal. Cr. 1

Prereq: PSC 3310, PSC 3320, 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 3320, 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. Pharmacotherapeutics IV: Endocrine and Respiratory Systems. 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 respiratory and endocrinologic systems. (F)

4150. Pharmacotherapeutics V: Cardiovascular Systems. Cr. 4

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 cardiovascular system. (F)

4160. Pharmacotherapeutics VI: 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. Pharmacotherapeutics VIII: Infectious Diseases. Cr. 4

Prereq: PHA 4120, 4130. Pharmacology, medicinal chemistry, therapeutic application, and applied pharmacokinetics of drugs that are used in the management of infectious diseases. (W)

4220. Pharmacotherapeutics IX: Neurology. Cr. 2

Prereq: PHA 4110, 4120, 4130. Pharmacology, medicinal chemistry, therapeutic application, applied pharmacokinetics of drugs that are used in the management of neurologic diseases including pain. (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. Pharmacotherapeutics XI: Clinical Toxicology. Cr. 1

Prereq: PHA 4140, 4150, 4160, 4170, 4210, 4230. Study of toxicology, hypersensitivity, carcinogenesis and other factors that are hazardous to human health as a result of ingestion of xenobiotics. (W)

4250. Pharmacotherapeutics XII: Special Patient Populations. Cr. 1

Prereq: PHA 4240. Pharmacology, medicinal chemistry, pharmacokinetics and therapeutic applications of drugs to special patient populations. (W)

PHARMACY PRACTICE (PPR)

3110. Pharmaceutical Calculations. Cr. 1

Prereq: admission to professional curriculum. The application of the systems of weights and measures and mathematical calculations involved in pharmaceutical procedures and practices. (F)

3120. (WI) Pharmacy Jurisprudence. Cr. 2

Prereq: P S 1010; admission to professional curriculum. Various state and federal regulations affecting pharmacy practice and drug control. (F)

3210. Orientation to Pharmacy. Cr. 1

Prereq: admission to professional curriculum. Offered for S and U grades only. Overview of the profession of pharmacy; visit to professional practice site. (W)

3230. Non-Prescription Medication. Cr. 3

Prereq: IHS 3100; coreq: IHS 3200, IHS 3210. Material fee as indicated in *Schedule of Classes*. Various therapeutic classes of non-prescription medication with particular reference to rationale for use, products available, comparative effectiveness and contraindications. (F)

3240. Pharmaceutical Compounding and Dispensing. Cr. 2

Prereq: PSC 3120, PPR 3110, PPR 3120; coreq: 3250. Material fee as indicated in *Schedule of Classes*. Elements of compounding and dispensing. (W)

3250. Pharmaceutical Compounding and Dispensing: Laboratory. Cr. 1

Prereq: PSC 3120; PPR 3110, PPR 3120; coreq: 3240. (W)

4100. Pharmacy Practice and the Health Care System. Cr. 2

Prereq: PPR 3100; fourth 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)

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)

4210. (WI) Pharmacy Management. Cr. 4

Prereq: PPR 3210, 3220. Principles of management as applied to the hospital/institutional organization and community pharmacy practice. Writing Intensive course in second professional year. (W)

5000. (WI) Drug Literature Evaluation. Cr. 2

Prereq: PHA 4250. 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. (W)

5100. Clinical Pharmacy Clerkship Orientation. Cr. 1-2

Prereq: last professional year standing. Orientation to and basic information necessary for effective participation in externship/clerkship experiences. (T)

5120. (WI) Hospital Pharmacy Externship. Cr. 4-7

Prereq: PHA 4250, PPR 4110, PPR 4210. Material fee as indicated in *Schedule of Classes*. 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. (F,W)

5130. Community Pharmacy Externship. Cr. 4-7

Prereq: PHA 4250, PPR 4110, PPR 4210. 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)

5280. Ethics and Professional Responsibility. Cr. 2

Prereq: PPR 3120, 4210, 3210, 3220 and 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: PPR 4210. 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)

- 5400. Hospital and Institutional Practice Management. Cr. 3**
Prereq: PPR 4100. Introduction to policies and procedures in hospital/institutional organization and practice including distribution, use and training of supportive personnel; formulary and bid purchasing. JCAH rules and guidelines. (W)
- 5500. Community Pharmacy Management. Cr. 3**
Prereq: PPR 4100. Principles of management of a community pharmacy practice: advertising, merchandising, purchasing and inventory control; operating and financial records; financial management, insurance and risk factors; security and pilferage problems; purchasing a pharmacy and alternatives in community practice; contractual relationships in practice. (F)
- 5600. Special Topics in Hospital Pharmacy Practice. Cr. 3**
Prereq: last professional year standing. Discussion of current professional problems in hospital and institutional pharmacy practice. (W)
- 5700. Special Topics in Community Pharmacy Practice. Cr. 2**
Prereq: last professional year standing. Discussion of current professional problems in community pharmacy practice. (F)
- 5750. Oncology Therapeutics. Cr. 3**
Prereq: last professional year standing. Material fee as indicated in *Schedule of Classes*. Lecture and discussion on terminology and the basic principles of therapy of the major malignancies, including pathophysiology and therapy. Ancillary therapy of patients with malignancies. (Y)
- 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)
- 6100. Legal Environment in Pharmacy. Cr. 3**
Prereq: PPR 3120, 5280, 4210, 5290, graduating senior or graduate student status. Formulation, interpretation, performance and discharge of contracts and liabilities for breach; various tort liabilities, including pharmacy malpractice; insurance issues; regulation of business professional and trade practices in pharmacy; employment laws. (I)
- 6110. Drug-Induced Diseases. Cr. 2**
Prereq: PHA 4250. Material fee as indicated in *Schedule of Classes*. Understanding the pathology associated with the use of drugs. Mechanisms and examples of how drugs damage different organ systems. (Y)
- 6120. Home Health Care. Cr. 3**
Prereq: PHA 4250, PPR 4110, PPR 4210; or graduate or graduate professional standing. Material fee as indicated in *Schedule of Classes*. Review of the availability and applications of surgical appliances and other health-care devices used in patient care. (F)
- 6210. Intravenous Therapeutics. Cr. 2**
Prereq: PHA 4250, or graduate or graduate professional standing. Material fee as indicated in *Schedule of Classes*. 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. (F,W)
- 6600. Biostatistics. (PSC 6600). Cr. 3**
Prereq: last professional year, graduate, or graduate professional standing. Student computer account required. 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. Material fee as indicated in *Schedule of Classes*. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: cardiology. (Y)
- 6620. Disease Processes and Therapeutics II: Infectious Diseases. Cr. 2**
Prereq: admission to Pharm.D. program. Material fee as indicated in *Schedule of Classes*. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: infectious diseases. (Y)
- 6630. Disease Processes and Therapeutics III: Hematology/Oncology. Cr. 2**
Prereq: admission to Pharm.D. program. Material fee as indicated in *Schedule of Classes*. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: hematology and oncology. (Y)
- 6640. Disease Processes and Therapeutics IV: Psychiatry/Neurology. Cr. 2**
Prereq: admission to Pharm.D. program. Material fee as indicated in *Schedule of Classes*. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: psychiatry and neurology. (Y)
- 6650. Disease Processes and Therapeutics V: Gastroenterology/Endocrinology. Cr. 2**
Prereq: admission to Pharm.D. program. Material fee as indicated in *Schedule of Classes*. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: gastroenterology and endocrinology. (Y)
- 6660. Disease Processes and Therapeutics VI: Nephrology/Fluid and Electrolytes. Cr. 1-3**
Prereq: admission to Pharm.D. program. Material fee as indicated in *Schedule of Classes*. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: nephrology and fluid electrolytes. (Y)
- 6670. Disease Processes and Therapeutics VII: Rheumatology, Pediatrics and Patient Assessment. Cr. 2**
Prereq: admission to Pharm.D. program. Material fee as indicated in *Schedule of Classes*. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: rheumatology, pediatrics, patient assessment. (Y)
- 6680. Disease Processes and Therapeutics VIII: Immunology/Pulmonary/Toxicology. Cr. 2**
Prereq: admission to Pharm. D. program. Material fee as indicated in *Schedule of Classes*. Pathophysiology of disease states, clinical pharmacology and therapeutic application of drugs: immunology, pulmonary, and toxicology. (F)
- 6860. Principles of Pediatric Pharmacy. Cr. 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. (Y)
- 6870. Geriatric Pharmacy Practice. Cr. 2**
Prereq: last professional year standing, graduate or graduate professional standing. Material fee as indicated in *Schedule of Classes*. Topics presented are those concerned with the aging process as it relates to the more common disease states with focus on drug therapy. The role of the pharmacist in the care of the elderly is also emphasized. (Y)

PHARMACY STUDENT and ALUMNI ACTIVITIES

The **Pharmacy Student Advisory Board (PSAB)** represents organizations of the pharmacy student body, for the purpose of advancing the College, the University, and the profession of pharmacy. This Board consists of a representative from each of the various pharmacy student organizations and the class officers.

The College has a Chapter of the **Academy of Students in Pharmacy (ASP)**, an affiliate of the American Pharmacists 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, whose fundamental objective is to promote the advancement of the pharmaceutical sciences through the encouragement and recognition of academic excellence. High standards of scholarly attainment are required for election to membership.

Students ranking in the top twenty percent of the class and having at least a 3.0 h.p.a. are eligible for election, which takes place in the beginning of the second and third professional years.

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 was formed in 1883 to aid its members to become part of the profession. The objectives of Phi Delta Chi (Alpha Eta Chapter) 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, foster a professional spirit and promote mutual improvement among alumni, and to support College endeavors through seminars, scholarships, and tutorial programs offered to students.

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 baccalaureate pharmacy students admitted or readmitted to the professional program for the Fall term 1992 and thereafter.

For purposes of these academic rules and regulations, the following definitions apply:

1. **Professional course** means any course required in the professional pharmacy 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 'D' or below, 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

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, 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.

Withdrawal and Leaves of Absence

A student may withdraw from one course during a term, subject to applicable University policy and, when required, the approval of the course instructor/coordinator and the Dean. A student may not withdraw from more than one course during a term unless a leave of absence is granted (see below). Before withdrawing from any course, the student must meet with both the course instructor and his/her faculty adviser to discuss the options. A student who withdraws from a course may not elect any subsequent courses for which that course serves as a prerequisite.

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 and requires a prior consultation with the student's faculty adviser and/or the Assistant Dean for Student Affairs.

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.

Time Limitations

The program must be completed within four 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 four–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 College of Pharmacy and Allied Health Professions:

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.

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 appointive offices (includes professional pharmacy fraternities, student professional organizations, and pharmacy class offices). If a student holding such an office is placed on probation, a hold will be placed on their registration for the following semester until he/she has officially relinquished the position.

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 six 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.

Faculty review of cases involving dismissal and/or an extension of the time limitation may be requested within the time period specified in the CAPP notification. All such requests must be in writing. Faculty review of such actions will be limited to documentation previously submitted to the CAPP. The decision of the Faculty in cases involving dismissal and/or an extension of a time limitation is final. Following notice of the faculty decision, procedural review only by the Dean, and ultimately the Provost, may be sought.

Not that this academic review process does not apply to grades. Neither the CAPP nor the Faculty will 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 after due process in accord with published policies.

Academic Dishonesty

In any instance of academic dishonesty occurring in any course offered by the College of Pharmacy and Allied Health Professions, 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:

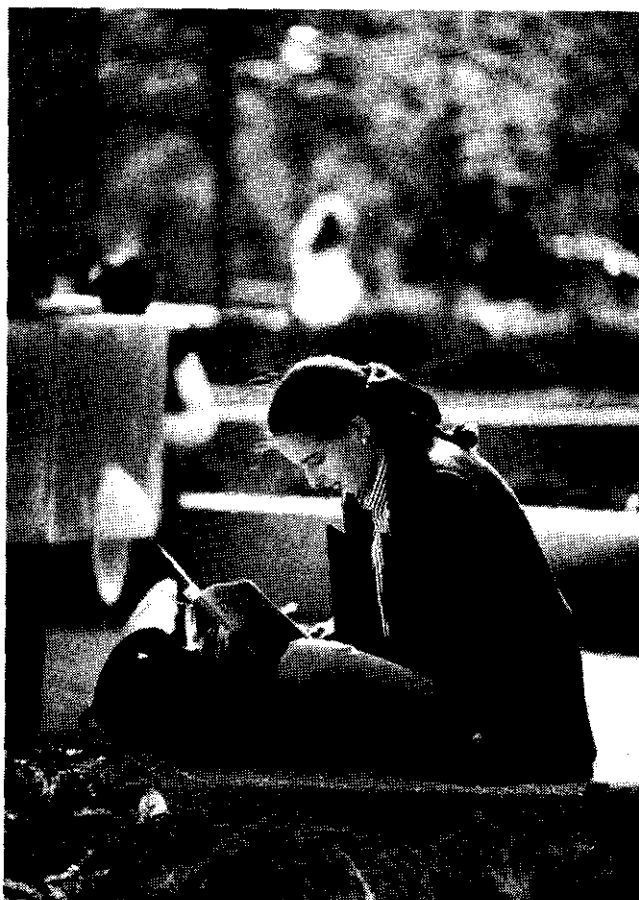
The grade for the course will be reduced to an 'E.' In addition, charges may be filed, as provided for in Section 10.2 of the Statute, which may lead to further sanctions up to and including expulsion from the College and/or University.

Dean's List of Honor Students

A regular undergraduate student who achieves an honor point average of 3.7 or more for at least twelve credits of course work in a given semester is notified by the Dean of his/her citation for distinguished scholarship and professional progress. The student's name is placed on the Dean's List of Honor Students.

Graduation with Distinction

A candidate eligible for the degree of Bachelor of Science in Pharmacy may receive a diploma designated for scholastic excellence, as evidenced by the cumulative honor point average. The designations, which are University-wide, are: *Cum Laude*, *Magna Cum Laude*, and *Summa Cum Laude*. Graduation with distinction will be indicated on the student's diploma and on the transcript. Criteria for graduation with distinction may be found in the General Information section of this bulletin, page 37.



FINANCIAL AID, SCHOLARSHIPS 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 Aids, 2 East, Helen Newberry Joy Student Services Center.

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 Office of Student Affairs, 143 Shapero Hall.

Special Interest Scholarships: Information about special interest pharmacy scholarships that are administered outside of the College and the University is available from the Office of Student Affairs, 143 Shapero Hall. Deadlines for special interest scholarships vary.

Scholarships and Awards

Pharmacy scholarships are awarded to pharmacy students in good academic standing, based on recommendations from faculty and students and criteria determined by the contributors. Based on recommendations from faculty and students, awards for outstanding achievement are given to pharmacy students in either the baccalaureate or Doctor of Pharmacy program

Academy of Health Careers, Inc., Pharmacy Scholarship: A scholarship in the amount of at least \$200 is awarded annually to a pharmacy student entering the second or third professional year and in good standing with financial need, by the Academy of Health Careers, Inc., and Dick Kuchinsky, R.Ph.

American Pharmaceutical Association / Academy of Students of Pharmacy (APhA/ASP) 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 judgement 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) Certificate: A framed certificate of commendation is issued annually by the American Pharmaceutical Association 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 Award: This certificate is given to a third professional year pharmacy student who has demonstrated unusual personal and professional development, strong involvement in professional organizations, academic excellence and leadership, and who ranks in the upper half of the class.

Arbor Drug Award: \$500 and a commemorative plaque is awarded annually by Arbor Drug Stores to a graduating student in recognition of superior achievement in community pharmacy practice.

Sidney Barthwell (Alumni) Pharmacy Scholarship: \$1000 awarded to an African American pharmacy student with desirable qualities of character and leadership.

Alfred Berkowitz Pharmacy Scholarship: This \$1000 scholarship was established to encourage continual progress and to provide financial assistance to students in the College. The scholarship is awarded to students who demonstrate scholastic achievement and qualities of leadership.

Bristol Myers Pharmacy Award: An appropriate book is awarded annually to the baccalaureate student who, in the judgment of the faculty, has shown the greatest professional growth. Presented locally by Rich McFarland.

Bristol 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. Presented locally by Rich McFarland.

Burroughs Wellcome Doctor of Pharmacy (Pharm.D.) Scholarship Award: At least \$500 is given in the name of a distinguished alumnus/a, to a graduating Pharm.D. student with demonstrated financial need and academic achievement.

Paul C. and Nettie Deutch Scholarship: Scholarships of \$1,000 are awarded to pharmacy students who have completed a minimum of four academic courses in the professional program with an honor point average of at least 3.0. The applicant must demonstrate financial need and be *ineligible* for Federal, State, or other governmental financial educational assistance.

Bernard Thomas Downs Pharmacy Scholarship: This scholarship is established to assist African American second or third professional year full-time undergraduate pharmacy students. Recipients are selected on the basis of scholastic achievement with a minimum 2.7 overall honor point average, with qualities of character and 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 in the top twenty-five per cent of his/her class.

Elizabeth Green Wize Scholarship: An award of approximately \$500 to a full-time African American student with an honor point average of at least 3.0, financial need, and an interest in community pharmacy.

John Helfman Endowed Pharmacy Scholarship Fund: Established by the estate of John Helfman, an award of \$2500 is made to a Wayne State pre-pharmacy student, on admission to the professional pharmacy program, based on completion of all pharmacy prerequisites at Wayne State University. Application deadline is July 1; scholarship is renewable.

Hoffman LaRoche Community Preceptor of the Year Award: Upon recommendation of the graduating pharmacy students, a suitably engraved plaque is awarded by Syntex Laboratories to a pharmacy practitioner in recognition of outstanding participation in the externship component of the pharmacy curriculum.

Robert C. Johnson Scholarship: \$1000 is awarded to a pharmacy student in the third professional year who has an honor point average of at least 2.8, and has demonstrated leadership, qualities of good character, and financial need.

Kappa Psi Graduate Chapter Award: A silver bowl or tray 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 Award: A silver tray is awarded annually to the graduating member of Mu Omicron Pi Chapter of Kappa Psi Pharmaceutical Fraternity who attains 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.

Jack Kutnick Pharmacy Scholarship: This annual scholarship for entering second professional year pharmacy students was established by alumnus Jack Kutnick to provide a \$100 scholarship to a pharmacy student who has demonstrated financial need and scholastic achievement.

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 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.

Lemmon Company Student Award: Upon recommendation of the faculty, a plaque and \$100 is awarded by the Lemmon Company to a graduating baccalaureate student who excels in the study of pharmacy.

The Lilly Achievement Award: Upon recommendation of the faculty, a gold medal encased in a suitable 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.

Merck Award: A set of books consisting of *The Merck Index* and *The Merck Manual* are awarded annually to three graduating students for outstanding academic achievement.

Michigan Drug Travelers Pharmacy Scholarship: \$1000 is awarded to a second professional year pharmacy student.

Michigan Pharmacists' Association Dean's Professionalism Award: This annual award is presented to the graduating student selected by the current Dean, George Fuller, in honor of the previous Dean, Martin Barr, as most likely to achieve leadership in pharmacy practice and advance the ethics and standards of the profession of pharmacy.

Michigan Society of Hospital Pharmacists Award: \$100 is given to an undergraduate pharmacy student who has demonstrated interest in hospital pharmacy, significant academic achievement, and professional extracurricular activity.

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 be in the top twenty-five per cent of the graduating class.

NARD Foundation (Pharmacy) Presidential Scholarship: A \$2000 nationally-competitive scholarship, which is based on leadership qualities and academic achievement, awarded by NARD. Application deadline is in March.

NARD (Pharmacy) Student Achievement Award: \$200 and a commemorative plaque are given to a pharmacy student in the last

year of the professional program, who has a minimum 2.5 h.p.a. and had demonstrated interest in independent pharmacy practice.

Oakland County Pharmacist Scholarship: \$250 and a handsome engraved plaque are presented to a pharmacy student in accordance with established criteria.

Perrigo Pharmacy Award of Excellence in Nonprescription Medication Studies: An award of \$200 is presented to a graduating baccalaureate 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 Group Community Pharmacy Externship Award: Upon recommendation of the practice faculty, a suitably engraved plaque is awarded by Pfizer Laboratories to a graduating student in recognition of excellence in the community pharmacy component of the externship program.

Pharmacists Mutual Pharmacy Scholarship: \$1000 is awarded to a pharmacy student entering either the second or third professional year.

Pharm.D. Instructor of the Year: Upon recommendation and selection by the first-year class, one faculty member receives this Faculty of the Year award for outstanding contribution to the class.

Phi Delta Chi Alpha Eta Alumni Award: Each year the name of the graduating member of Alpha Eta Chapter of Phi Delta Chi Fraternity who attains the highest scholastic average of all graduating students is engraved on a plaque, which is presented to the student by the fraternity.

Phi Delta Chi Award: A \$100 check is awarded annually by the Phi Delta Chi Fraternity to a second professional year student, selected from at least three nominees in the top twenty-five percent of their class recommended by the faculty, and determined by the awards committee of the Fraternity to have demonstrated potential leadership in intraprofessional activities by the second professional year of the pharmacy program.

Rite Aid Pharmacy, Inc., Intern Scholarship: \$1000 is awarded to a graduating Rite Aid intern with the highest h.p.a. in the B.S. program, to recognize scholastic achievement and to encourage continued progress.

Rite Aid Pharmacy, Inc., Scholarship: \$1000 awarded to a pharmacy student with an honor point average of at least 3.0 and an interest in community pharmacy, to recognize scholastic achievement. Open to all pharmacy students.

Roche Pharmacy Communications Award: Roche Laboratories presents an annual award to the graduating student who has demonstrated qualities and abilities necessary to the practice of community pharmacy, to recognize and promote effective pharmacist/patient communication as a vital aspect of pharmacy service.

Schering Pharmacy Scholarship: \$500 awarded to a first professional year student for outstanding achievement in jurisprudence studies.

Smith Kline Beecham Patient Care Award: A plaque is presented annually to a graduating baccalaureate student in recognition of excellent performance during the pharmacy internship, with emphasis on superior patient relations in hospital and community practice.

Southeastern Michigan Society of Hospital Pharmacists: \$500 is awarded to a second or third professional year pharmacy student with an honor point average of at least 2.8, an interest in hospital pharmacy, and desirable qualities of character and leadership.

Substance Abuse Educator Scholarship: \$200 presented to the graduating student who, upon recommendation of faculty and students, has demonstrated active involvement in substance abuse education.

Wal-Mart Stores, Inc., Pharmacy Scholarship: Wal-Mart, Inc., annually awards a minimum of \$1000 scholarship to a full-time entering pharmacy student with high scholastic standing, who has

demonstrated outstanding qualities of character and leadership. Emphasis is placed on financial need and a desire to enter community pharmacy practice.

Wayne County Pharmacists Association Scholarships: The members of the Wayne County Pharmacist Association award one scholarship of at least \$500 to a full-time second professional year pharmacy student, and one scholarship of at least \$500 to a full-time third professional year pharmacy student. Each student must have a core h.p.a. of at least 2.75 and demonstrated involvement in professional activities.

WSU Pharmacy Alumni Association Scholarship: The pharmacy alumni of Wayne State University award an annual scholarship of at least \$500 to a full-time second professional year pharmacy student with an h.p.a. of at least 2.8 and demonstrated involvement in professional activities.

WSU Third Professional Year Pharmacy Student Faculty Awards of the Year: Upon recommendation and selection by the graduating class, two faculty members receive the Faculty of the Year Award for outstanding contribution to the class.

WSU Second 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 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 loan *before* graduation from the College.

Alfred Berkowitz Pharmacy and Allied Health 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.

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 Afro-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.

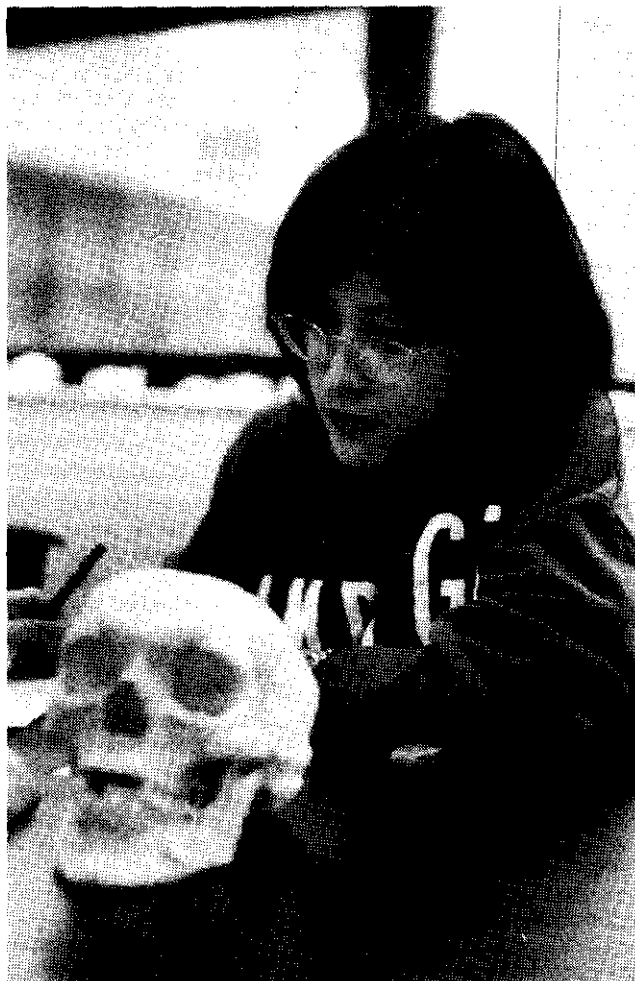
Roland T. Lakey Pharmacy Student Loan: A loan fund was established in honor of Dean Emeritus Roland T. Lakey by the Pharmacy Alumni Association, Rho Pi Phi Fraternity, and friends of Dean Lakey. Pharmacy students are eligible for loans from this fund when students have completed twelve credits in the College with an honor 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.

Perry Drug Stores, Inc., Loan: Perry Drug Stores, Inc., has established funds to provide short-term financial assistance to pharmacy students in good academic 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 ALLIED HEALTH PROFESSIONS

Programs

Anesthesia, clinical laboratory science, occupational and environmental health, occupational therapy, physical therapy and radiation therapy are among the allied health programs 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. These fields of study lead to interesting and rewarding careers.

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.

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 hospital 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.

Occupational and Environmental Health:* 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 offers the Master of Science degree with specialization 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 healthful 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.

Radiation Therapy: The program in radiation therapy technology is designed to prepare students to administer treatment with ionizing radiation to patients with malignant diseases. The didactic portion of the curriculum provides the mathematics, physics, basic science and psychology as a background which the student then learns to apply in a clinical setting. The clinical portion of the curriculum places considerable emphasis on learning the practical skills and techniques required to handle the various materials and operate the sophisticated machinery of a radiation therapy facility. The clinical training also provides opportunity for the student to interact with physicians and graduate technologists in the treatment planning process and with patients who are receiving treatment with ionizing radiation.

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.

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, superintendance, 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.

* For specific requirements, consult 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 allied health 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, physical therapy and radiation therapy technology 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 at 3 East, Helen Newberry Joy Student Services 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 Allied Health 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 Allied Health 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 an honor point average of 2.5 ('A'=4.0) or better.

Students applying to Radiation Therapy Technology must have taken the Allied Health Professions Admissions Test (AHPAT), a standardized evaluation procedure that has been developed similar to the Medical College Admissions Test. It provides admissions officers throughout the country with comparative data on an applicant's verbal and quantitative abilities, reading comprehension and science preparation. This test will be administered several times each year at Wayne State University as well as other locations throughout the country. Applicants should plan to take this test no later than December or February preceding entry into the professional programs. Applications for the AHPAT may be obtained from Testing and Evaluation Services, 698 Student Center; 577-3400.

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, 3 West, Joy Student Services Building, for students interested in allied health professions.

Students, during their sophomore year, should confer with the professional program adviser of the Allied Health 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.

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 honor 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 honor 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, 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 policy of the College may be obtained from the Registrar's Office, 139 Shapero Hall.

Dean's List of Honor Students

Full-time students whose honor 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 Allied Health Professions are enumerated in the departmental sections of this bulletin (see pages 363-378). Following are general College and University policies governing baccalaureate programs.

University General Education Requirements

For complete description, see section beginning on page 26.

University Requirement in American Government—see pages 26 and 30.

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, pages 26-36.

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 allied health 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

See Office of Scholarships and Financial Aid, page 21.

Alfred Berkowitz Pharmacy and Allied Health 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 Allied Health Professions 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 37.



CLINICAL LABORATORY SCIENCE

Office: 233 Shapero Hall; 313-577-1384

Administrative Director: Gerald W. Aldridge

Technical Directors: Sue Kozlowski, Carol Watkins

Associate Professor

Dorothy M. Skinner (Emerita)

Assistant Professors

Janet Brown Castillo, Bouchra Harake, Ann Wallace

Adjunct Associate Professors

Barbara Anderson, Ursula Bedrossian, Gerald Mandell

Adjunct Assistant Professors

Linda Cardine, Jean Garza, Grace Hill, Deanna Klosinski, Joyce Salancy, Thomas Venier

Adjunct Instructors

Kathleen Hay, Carol Hillman-Wiseman, Ross LaVoie

Cooperating Faculty

L. Carrick, M. Doscher, J. Lightbody, L. McCoy, H. Rausch, D. Walz

Degree Programs

BACHELOR OF SCIENCE in Clinical Laboratory Science

BACHELOR OF SCIENCE in Clinical Laboratory Science with a concentration in cytotechnology

**MASTER OF SCIENCE in Clinical Laboratory Science with specializations in clinical laboratory instrumentation, education management, and hematology*

Clinical laboratory science is a health profession offering many challenging opportunities for men and women with an aptitude in the basic sciences and an interest in a career devoted to giving indispensable aid to the effective practice of medicine. The Clinical Laboratory Science Program at Wayne State University provides the interested student with the technical knowledge and specialized skills necessary to the profession. The work of the clinical laboratory scientist involves:

1. Provision of accurate diagnostic information to the physician through performance of a vast array of laboratory tests.
2. Comparative evaluation and utilization of the best possible methods of performance of these tests.
3. Operation of sophisticated laboratory equipment.
4. Effective teaching and supervision of students and auxiliary laboratory personnel.

While the majority of clinical laboratory scientists work in hospital or other clinical laboratories, graduates are also prepared for positions in federal, state and local health departments, in industrial or research laboratories and in clinical laboratory science education.

The programs offered by the Department of Clinical Laboratory Science utilize the facilities of the School of Medicine, the Faculty of Allied Health Professions 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 consists of 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:

	<i>high school units</i>
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 428). 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.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

PREPROFESSIONAL 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

	<i>credits</i>
BIO 1510 —(LS) Basic Life Mechanisms	4
CHM 1050 or CHM 1070	
—(PS) Introductory Principles of Chemistry	6
—(PS) Principles of Chemistry I*	4
CHM 1080 —Principles of Chemistry II	5
NUR 1110 —(CL) Intro. to Computers & Technology for Health Care Professionals ..	2
ENG 1020 —(BC) Introductory College Writing	4
CLS 2080 — Clinical Laboratory Science Seminar	1
MAT 1800 —Elementary Functions	4
SPB 1010 —(OC) Oral Communication: Basic Speech	2
UGE 1000 —(GE) The University and its Libraries	1

Second Year

IHS 3100 — Basic Mechanisms of Human Disease I	5
IHS 3200 — Basic Mechanisms of Human Disease II	5
ENG 3010 —(IC) Intermediate Writing	3
HIS 1995—(HS) Society & the Economic Transition **	3
SPC 2110 — (CT) Argumentation and Debate	3
P S 1030 — (AI) The American Governmental System	3
SOC 2000 —(SS) Understanding Human Society **	3
Humanities (VP,PL) electives	6
STA 1020 —Elementary Statistics	3

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 honor 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 and physics).

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).

* A qualifying examination in high school chemistry is prerequisite to electing CHM 1070.

** Preferred course to satisfy University General Education requirement.

(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 Chairperson, Department of Clinical Laboratory Science, College of Pharmacy and Allied Health Professions.

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 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 Year

	<i>credits</i>
CHM 2240 — Organic Chemistry I	4
BIO 3070 — Genetics	4
NUR 4800 — (FC) Transcultural Health through the Life Cycle	3
BCH 5010 —General Biochemistry Lectures	2
IM 5500—Principles of Immunology	2
IM 5510 —Bacteriology	4
CLS 3020 —Hematology I	2
CLS 3040 —Immunohematology	2
CLS 3060 —Serology	3
CLS 3080 — Clinical Lab. Methods and Instrumentation	3
CLS 3090 — Clinical Laboratory Science Professional Seminar	1
CLS 3100 —Clinical Laboratory Science Parasitology	2
CLS 3120 —Hematology I: Laboratory	2
CLS 3180 —Clinical Lab. Methods and Instrumentation Laboratory	1
CLS 3280 —Introduction to Clinical Chemistry	4

Fourth Year

CLS 3090 — Clinical Laboratory Professional Seminar	2
CLS 5070 —Clinical Pathology Correlation	2

Clinical rotation, or directed study, totalling seventeen credits, will be taken at a hospital affiliated with the College of Pharmacy and Allied Health Professions.

Academic Standing—Dismissal and Readmission: No senior student will be graduated with a grade of less than 'C' in any clinical course, nor will they be admitted to the clinical year with less than a 2.5 overall h.p.a.

Any student with a semester h.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 h.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. The final sixteen weeks of the program are 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 bloodborn 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 Allied Health Professions, page 362.

Time Limitation: See the section above on Academic Procedures for the Faculty of Allied Health Professions, page 362.

Bachelor of Science in Clinical Laboratory Science 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 cytoplasmic 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 degree Bachelor of Science in Clinical Laboratory Science 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 Cytology. A graduate from Wayne State University with a degree in Allied Health Sciences 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 prerequisites for applicants pursuing the Bachelor of Science in Clinical Laboratory Science 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 428). 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

Courses in this program are taken under the direction of the College of Science and the College of Liberal Arts. *Students must pass the required preprofessional courses with a grade of 'C' or better.*

First Year

	<i>credits</i>
BIO 1510 —(LS) Basic Life Mechanisms	4
BIO 2200 — Introductory Microbiology	4
CHM 1050 or CHM 1070 *	
—(PS) Introductory Principles of Chemistry	6
—(PS) Principles of Chemistry I	4
CHM 1080 —Principles of Chemistry II	5
ENG 1020 —(BC) Introductory College Writing	4
MAT 1800 —Elementary Functions	4
SPB 1010 —(OC) Oral Communication: Basic Speech	2
UGE 1000—(GE) The University and Its Libraries	1
NUR 1110 — (CL) Intro. to Computers & Technology for Health Care Professionals ..	2
CLS 2080 — Clinical Laboratory Science Seminar	1

Second Year

IHS 3100 — Basic Mechanisms of Human Disease I	5
IHS 3200 — Basic Mechanisms of Human Disease II	5
ENG 3010 —(IC) Intermediate Writing	3
HIS 1950 — (HS) Society and the Economic Transition	3
SPC 2110 — (CT) Argumentation and Debate	3
P S 1030 — (AI) The American Governmental System	3
STA 1020 — Elementary Statistics	3
SOC 2000 — (SS) Understanding Human Society	3
Humanities (VP, PL) electives	6

Residence: See the section above on Academic Procedures for the Faculty of Allied Health Professions, page 362.

Time Limitation: See the section above on Academic Procedures for the Faculty of Allied Health Professions, page 362.

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 364. For further information, write: Department of Clinical Laboratory Science, College of Pharmacy and Allied Health Professions, 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 Physical Therapy.

Degree Requirements

Candidates for the allied health sciences degree Bachelor of Science with a concentration in cytotechnology must complete 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 College of Science and the staff of the affiliated clinical institutions. The third year begins **ONLY** in September.

Third Year

	<i>credits</i>
NUR 4800 — (FC) Transcultural Health through the Life Cycle	3
BIO 3070 — Genetics	4
BIO 5630 —Histology	4
CLS 3020 —Hematology I	2
CLS 3120 —Hematology I Laboratory	2
CLS 3100 —Clinical Laboratory Science Parasitology	2
CLS 4490—Cytotechnology Technique: Female Genital Tract	4
CLS 3380 — Basic Cytotechnology Technique and Research	3
IM 5500 — Principles of Immunology	2
IM 5510 — Bacteriology	4

Fourth Year

CLS 3090 — Clinical Laboratory Science Professional Seminar	2
CLS 4500 —Cytotechnology Non-Gynecological Technique I	13
CLS 4510 —Cytotechnology Non-Gynecological Technique II	16

Health and Liability Insurance: Clinical Education is provided throughout the professional program along with didactic courses. The final sixteen weeks of the program are 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 bloodborn 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 365.

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 Aids, 2 East, Helen Newberry Joy Student Services Center, Detroit, Michigan 48202.

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, 233 Shapero Hall.

The Dr. Alexander Wallace III Scholarship is available to a junior year clinical laboratory science student. For further information, contact the Department secretary, 233 Shapero.

In addition, the Michigan Society of Clinical Laboratory Scientists offers a scholarship or loan to qualified junior or senior students in the professional program. Also, student loan funds have been established to assist students in good standing in clinical laboratory science; they include: the Clinical Laboratory Science Student Loan Fund, and the W. K. Kellogg Foundation Loan Fund.

* A qualifying examination in high school chemistry is prerequisite to electing CHM 1070.

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 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 students may participate in the local, state and national organizations of the American Society for Clinical Laboratory Science.

UNDERGRADUATE COURSES

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

BIOCHEMISTRY (BCH)

1010. Introductory Biochemistry. Cr. 2

Prereq: CHM 1020 or equiv. Fundamentals of biochemistry, especially areas of importance to students of occupational and physical therapy. (Y)

5010. General Biochemistry Lectures. Cr. 2

Prereq: CHM 1020 or equiv. Structural biochemistry; metabolism of carbohydrates; lipids, proteins and nucleic acids; molecular biology. (F,W)

CLINICAL LABORATORY SCIENCE (CLS)

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 I. Cr. 1–2

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. (F)

3040. Immunohematology. Cr. 2

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. (S)

3050. Hematology II. Cr. 2

Prereq: CLS 3020. In-depth study of blood and blood forming organs (normal and pathological) from the standpoint of interpretation and diagnosis. (W)

3060. Serology. Cr. 3

Prereq: junior in clinical laboratory science or consent of instructor. Material fee as indicated in *Schedule of Classes*. Theoretical and practical information on serology theory and laboratory methodology. (F)

3070. Urinalysis/Hemostasis. Cr. 2–3

Prereq: junior in clinical laboratory science or consent of instructor. Material fee as indicated in *Schedule of Classes*. 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. (F)

3080. Clinical Laboratory Methods and Instrumentation. Cr. 2–3

Prereq: junior standing in clinical laboratory science or consent of instructor. Material fee as indicated in *Schedule of Classes*. 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. (W)

3090. Clinical Laboratory Science Professional Seminar. Cr. 1

Prereq: junior in clinical laboratory science program. Weekly group discussion on medical technology matters. Medical ethics and professionalism. (W)

3100. Clinical Laboratory Science Parasitology. Cr. 2

Prereq: junior in clinical laboratory science program or consent of instructor. Material fee as indicated in *Schedule of Classes*. Discussion and practical considerations of parasitic organisms as disease agents in man, their epidemiologic, clinical pathological significance and practical diagnostic methodology. (S)

3120. Hematology I: Laboratory. Cr. 1–2

Prereq: junior in clinical laboratory science program. Material fee as indicated in *Schedule of Classes*. Laboratory exercises relative to the basic study of the blood forming organs and the components of blood. (F)

3140. Immunohematology Laboratory. Cr. 2

Prereq: junior in clinical laboratory science program. Material fee as indicated in *Schedule of Classes*. Practice of procedures employed in the clinical blood bank. (S)

3150. Hematology II: Laboratory. Cr. 2

Prereq: CLS 3120. Material fee as indicated in *Schedule of Classes*. Laboratory exercises relative to in-depth study of blood and blood forming organs; normal and pathological blood forms. (W)

3180. Clinical Laboratory Methods and Instrumentation Laboratory. Cr. 1

Prereq: CLS 3080. Material fee as indicated in *Schedule of Classes*. Introduction to the function and use of clinical laboratory instruments. (F)

3280. Introduction to Clinical Chemistry. Cr. 4

Prereq: CLS 3180. Material fee as indicated in *Schedule of Classes*. Methodologies and interpretations of results of clinical chemistry diagnostic tests. (W)

3380. Basic Cytotechnology Technique and Research. Cr. 3

Prereq: junior standing in clinical laboratory science, cytotechnology concentration. Material fee as indicated in *Schedule of Classes*. Introduction to basic laboratory methodology including microscopy, laboratory safety, pipetting, quality control/assurance, specimen collection and handling, laboratory statistics and calculations, selected laboratory instrumentation, and related carcinoma topics. Field work includes in-depth study of cytopathology topic. (F)

4000. Clinical Hematology. Cr. 5

Prereq: senior standing in clinical laboratory science program. Theory and principles for evaluation of the quantity, morphology and function of cellular components of blood. (S)

4010. Clinical Chemistry. Cr. 2-4

Prereq: senior standing in clinical laboratory science program. Biochemical analysis of blood and other body fluids to determine values of various chemical substances, using routine methods and automation. (F)

4020. Clinical Blood Bank. Cr. 1-4

Prereq: senior standing in clinical laboratory science program. Theory and principles involving antigen-antibody reactions of blood. Obtaining, storage and preparation of whole blood or blood components for infusion. (F)

4030. Clinical Microbiology. Cr. 5-6

Prereq: senior standing in clinical laboratory science. Obtaining, culturing, identification and antibiotic sensitivity of microorganisms causing infection or infestation. (W)

4040. Laboratory Administration and Instruction. Cr. 2

Prereq: junior standing in clinical laboratory science. Educational aspect includes discussion of basic instructional techniques and methodologies; preparation of educational objectives and test questions. Administration portion includes discussions of interaction with patients, fellow workers, employers, other allied health professions. (F,W)

4050. Clinical Immunology. Cr. 1

Prereq: senior standing in clinical laboratory science program. Study of diseases related to diagnostic immunology. (Y)

4060. Clinical Serology. Cr. 1

Prereq: senior standing in clinical laboratory science. Theory and procedures for identification of antibodies produced as a result of infection by microorganisms and collagen diseases. (W)

4070. Special Chemistry. Cr. 4-5

Prereq: senior standing in clinical laboratory science program. Areas of analysis including hormonal studies, electrophoretical determinations, tumor markers, drug analysis, other esoteric component measurements. (Y)

4080. Clinical Coagulation. Cr. 1

Prereq: senior standing in clinical laboratory science program. Study of process that maintains flowing blood in a fluid state and prevents loss of blood from sites of vascular disruption. (Y)

4090. Special Microbiology. Cr. 1

Prereq: senior standing in clinical laboratory science program. Study of diseases related to diagnostic medical microbiology. (Y)

4490. Cytotechnology Technique: Female Genital Tract. Cr. 4

Prereq: junior standing in clinical laboratory science, cytotechnology concentration. Study and analysis of cells in the female genital tract that are spontaneously exfoliated, mechanically dislodged by irritation, brushing or scraping, or forcibly removed by needle aspiration for detection and diagnosis of cancer. (S)

4500. Cytotechnology Non-Gynecologic Technique I. Cr. 4-17

Prereq: senior standing in clinical laboratory science, cytotechnology concentration. Study and analysis of cells from the respiratory tract, breast, urinary and GI tract. Cytologic emphasis on detection and diagnosis of cancerous cells. (F)

4510. Cytotechnology Non-Gynecologic Technique II. Cr. 1-16

Prereq: CLS 4500. Study and analysis of cells from effusion, the eye and CSF including cytopreparatory methodology. Cytologic emphasis on detection and diagnosis of cancerous cells. (W)

4990. Professional Directed Study. Cr. 1-8

Prereq: enrollment in clinical laboratory science program. Offered for S and U grades only. Independent study under faculty supervision. (T)

5070. Clinical Pathology Correlation. Cr. 1-2

Prereq: senior standing in clinical laboratory science or consent of instructor. Correlation of laboratory data and clinical history through the analysis of case studies. (W,S)

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 with 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. (T)

IMMUNOLOGY and MICROBIOLOGY (IM)

5500. Principles of Immunology. Cr. 2

Open only to medical technology program students. Material fee as indicated in *Schedule of Classes*. Lectures and laboratory exercises in basic immunology, including the relevance to human medicine. (F)

5510. Bacteriology. Cr. 4

Open only to juniors in Medical Technology program. Material fee as indicated in *Schedule of Classes*. Lectures and laboratory exercises in the fundamentals of microbiology, including bacteria, viruses and fungi, and a detailed consideration of the role of those agents in disease. (W)

5520. Virology and Mycology. Cr. 2

Prereq: IM 5510. Open only to clinical laboratory science students. Lecture and laboratory course in diagnostic and clinical virology and mycology. (S)

MORTUARY SCIENCE

Office: 627 W. Alexandrine; 577-2050

Chairperson: Mary L. Fritts-Williams

Associate Professor

Peter D. Frade, Mary L. Fritts-Williams

Assistant Professors

Laurie Burda-Mastrogiannis (Clinical), Robert C. Huntoon (Clinical),
Stephen R. Kemp (Clinical)

Part-Time Instructors and Instructional Assistants

Karen Appoloni, John D. Canine, John P. Davis, Jeresse Douglas, Melinda Forster, Sharon Gee, Alexander Muthalaly, Michael Wilk, Robert Will, Thomas E. Zaremba

Adjunct Associate Professors

Priscilla Chamberlain, Gilbert Herman, Sawait Kanlun, Edward J. Kerfoot, Eugene V. Perrin, Nilsa Ramirez

Degree Programs

BACHELOR OF SCIENCE in Mortuary Science

BACHELOR OF SCIENCE in Pathologists' Assistant

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.

The Department also offers the degree Bachelor of Science in Pathologists' Assistant, which is recognized by the American Association of Pathologists' Assistants.

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, 627 W. Alexandrine, Detroit, Michigan 48201; 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 Allied Health Professions, students should consult the sections in this bulletin beginning on pages 5 and 361, respectively. The following additions and amendments pertain to the Department of Mortuary Science.

Attendance/Exclusion

Students are expected to adhere to departmental attendance requirements. Anticipated absence from lecture or laboratory classes should be reported to the appropriate faculty member. A student may be excluded from the 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 faculty committee, they fail to maintain appropriate standards of conduct and practice.

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 College of Pharmacy and Allied Health Professions (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, 3 West, Helen Newberry Joy Student Services Center, Detroit, MI 48202, 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.

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 National 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.

Students must pass the required preprofessional courses (indicated by an asterisk) with a grade of 'C' or better.

PREPROFESSIONAL PROGRAM (Minimum sixty credits)

Preprofessional course work must include the courses below indicated by an asterisk (*).

	credits
* Accounting (Economics prerequisite)	6
* Biology (biology/zoology/anatomy) (LS)	6
* Chemistry (lecture and laboratory) (PS)	8
* English (composition) (BC) (IC)	6
* Psychology (general/death and dying/gerontology) (LS)	6
* Computer Science (CL)	3
* Speech (public speaking/communications) (OC)	3
Total required by state licensing regulations:	38

In addition, applicants to the professional program must have completed twenty credits from the following:

Historical Studies (HS) (HS 1100 or 1200 recommended)	4
PHI 1050 — (CT) Critical Thinking	3
PHI 2320 — (PL) Introduction to Ethics	3
American Society & Institutions (AI)	4
Visual & Performing Arts (VP)	4
(SS) SOC 2000 or ECO 1010 and 1020	4-8
Foreign Culture (FC)	3
MAT 1800 — Elementary Functions	4
UGE 1000 — (GE) The University and its Libraries	1

Credit granted by examination (e.g., CLEP) is acceptable.

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 honor point average of 2.5.
3. have been admitted to Wayne State University.
4. have successfully taken the English Proficiency Examination.

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 an honor 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 thirteen credits in professional course work. The conditional registrant must earn a minimum honor 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 a completed physical examination form to the Department upon admission to the Mortuary Science program. Immunization against HBV is *strongly* advised.

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	credits
M S 3100 — Chemistry	3
M S 3300 — Religions, Values, and Death	3
M S 3500 — Embalming I	3
M S 3800 — Mortuary Management I	4
M S 3830 — Psychology of Death and Dying	3
M S 4050 — Human Anatomy and Physiology	3
Total:	19

Winter Semester

M S 3400 — Mortuary and Business Law I	3
M S 3510 — Embalming II	3
M S 3600 — Restorative Art and Modeling I	2
M S 3810 — Mortuary Management II	3
M S 3840 — Psychosocial Aspects of Grief	2
M S 4250 — Medical Microbiology	3
Total:	16

Spring/Summer Semester

M S 0999 — Practicum	0
M S 3410 — Mortuary and Business Law II	3
M S 3610 — Restorative Art and Modeling II	2
M S 3760 — Past and Future Trends in Funeral Service Practices	3
M S 4300 — (WI) Introduction to the Study of Disease	2
M S 4450 — Small Business Financial Management	3
M S 5350 — (WI) Applied Grief Counseling: Aftercare	2
Total:	15

DEGREE REQUIREMENTS: The candidate for the degree of Bachelor of Science in Mortuary Science must satisfactorily complete, with an honor point average of at least 2.5, 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, with at least a 2.5 honor point average;
2. Complete, with at least a 2.5 honor point average, 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.

Direct inquiries for further information to: State Board of Mortuary Science, Ottawa Towers, 611 W. Ottawa, P.O. Box 30018, Lansing, Michigan 48909 (telephone: (517) 373-3105; Fax: (517) 373-2795).

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, 627 W. Alexandrine, Detroit, MI 48201 (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 h.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 27);
4. have submitted three letters of recommendation (including one employer and one science faculty member).

In addition, if the prospective applicant will be transferring to Wayne State, application for admission must be made to the University.

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 an honor 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. AAPA Certification recommendations are also fulfilled.

Preprofessional Program:

First Year

	<i>credits</i>
BIO 1500 — Basic Biology	4
BIO 1510 — (LS) Basic Life Mechanisms	4
CHM 1020 — (PS) General Chemistry I	4
CHM 1030 — General Chemistry II	4
ENG 1020 — (BC) Introductory College Writing	4
MAT 1800 — Elementary Functions	4
PHI 1050 — (CT) Critical Thinking	4
SPB 1010 — (OC) Oral Communication: Basic Speech	3
Social Science (SS) elective	3
UGE 1000 — (GE) The University and its Libraries	1
Total:	35

Second Year

BIO 2200 — (LS) Introductory Microbiology	4
CSC 1000 — (CL) Introduction to Computer Science	3
ENG 3050 — (IC) Technical Communication I	3
Historical Studies (HS) elective (HIS 1100 or HIS 1200 preferred)	4
Visual and Performing Arts (VP) elective	4
PHI 2320 — (PL) Introduction to Ethics	4
Foreign Culture (FC) elective	4
American Society and Institutions (AI) elective	4
Total:	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.

Third Year

Fall Semester

BIO 5630 — Histology	4
M S 4050 — Human Anatomy and Physiology	4
M S 4100 — Medical Photography	3
BCH 5010 — General Biochemistry Lectures	2
M S 4050 — Human Anatomy and Physiology	3-4
SOC 5360 — Introduction to Medical Sociology	3

Winter Semester

BIO 5610 — Vertebrate Embryology	4
M S 4150 — Histochemistry	3
M S 4250 — Medical Microbiology	3
M S 4420 — Small Business Financial Management	3
M S 5050 — Clinical Terminology and Methodology	3

Spring/Summer Semester

M S 4200 — Introduction to Forensic Science	3
M S 5250 — (WI) Applied General Pathology	4

Fourth Year

M S 4500 — Clinical Anatomic Pathology	8
M S 4550 — Clinical Histopathologic Technique	3
M S 4600 — Clinical Forensic Pathology	3
M S 4650 — Clinical Surgical Pathology	8
M S 4700 — Clinical Laboratory Rotation	2
M S 4800 — Clinical Photography	2
M S 4850 — Clinical Laboratory Management	4

These courses are taken at facilities affiliated with the College of Pharmacy and Allied Health Professions.

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 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. Courses in which a grade of 'D' is earned must be repeated. Students earning a grade of 'E' or a second grade of 'D' will

be reviewed by the Academic Committee and may be dismissed from the program. 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.

UNDERGRADUATE COURSES (M S)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

0999. Practicum Cr. 0

Prereq: admission to department and written consent of practicum coordinator; prereq. or coreq: M S 3510, 3810, 3840. No certificate or 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

Material fee as indicated in *Schedule of Classes*. Review of general inorganic chemistry; survey of organic and biochemistry; applications to postmortem changes, biologic preservation, and embalming chemistry. (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: written consent of instructor of record; prereq. or coreq: M S 3100. Open only to funeral service enrollees. Material fee as indicated in *Schedule of Classes*. 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. (F)

3510. Embalming II. Cr. 3

Prereq: M S 3500. Material fee as indicated in *Schedule of Classes*. Dynamics of decomposition; influence of disease and its treatment on the embalming process; public health considerations; anatomical embalming; disaster response; evaluation of embalming techniques. (W)

3600. Restorative Art and Modeling I. Cr. 2

Prereq: M S 3500. Material fee as indicated in *Schedule of Classes*. 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. (W)

3610. Restorative Art and Modeling II. Cr. 2

Prereq: M S 3600. Material fee as indicated in *Schedule of Classes*. Continuation of M S 3600. (S)

3760. Past and Future Trends in Funeral Service Practices. Cr. 3

Historic role of the funeral service practitioner, temporally and socially; projected directions and functions of the funeral service profession; ethical and legal implications of changing trends related to funeral service practices; influence of social and governmental requirements and expectations of the funeral service profession. (S)

3800. Mortuary Management I. Cr. 4

Funeral service practices, terminology, ethics; procedures pertinent to planning, building, and establishing a funeral home; personnel management; religious, ethnic, fraternal, and military practices; merchandising; vital statistics records and forms, public relations. (F)

3810. Mortuary Management II. Cr. 3

Prereq: M S 3800. Continuation of M S 3800. (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. attitudes toward death. (W)

4050. Human Anatomy and Physiology. Cr. 3–4

Offered for three credits to persons seeking Michigan funeral service licensure. Material fee as indicated in *Schedule of Classes*. Detailed systemic study of human anatomy and physiology. Three-credit lab: demonstration and selected dissections; emphasis on vascular anatomy and adjacent structural relationships; anatomic guides. Four-credit lab: full human dissection. (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. Material fee as indicated in *Schedule of Classes*. Study of techniques involved in the preparation of tissues prior to microscopic examination. (W)

4200. Introduction to Forensic Science. Cr. 3

Early signs of death, medical investigation of the cause of death, methods utilized for the identification of remains, medico-legal aspects of forensic science. (S)

4250. Medical Microbiology. Cr. 3

Material fee as indicated in *Schedule of Classes*. 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. (W)

4300. (WI) 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 Anatomic Pathology. Cr. 2-8

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. 3

Prereq: senior standing in pathologist assistant program. 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. 2-8

Prereq: senior standing in pathologist assistant program. Obtaining clinical histories, selection of specimens for laboratory evaluation, maintaining pertinent records. (T)

4700. Clinical Laboratory Rotation. Cr. 2

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 Laboratory Management. Cr. 2-4

Prereq: senior standing in pathologist assistant program. Knowledge and skills required for efficient and effective laboratory management. (T)

5050. Clinical Terminology and Methodology. Cr. 3

Clinical and surgical methods for analysis and treatment of human disease. (W)

5150. Current Issues In Death and Dying. Cr. 3-4

Prereq: junior standing or above. Death and dying in contemporary society: definition of death, process of dying, grief and bereavement in American society. (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)

5550. Special Topics in Mortuary Science. Cr. 1-3(Max. 3)

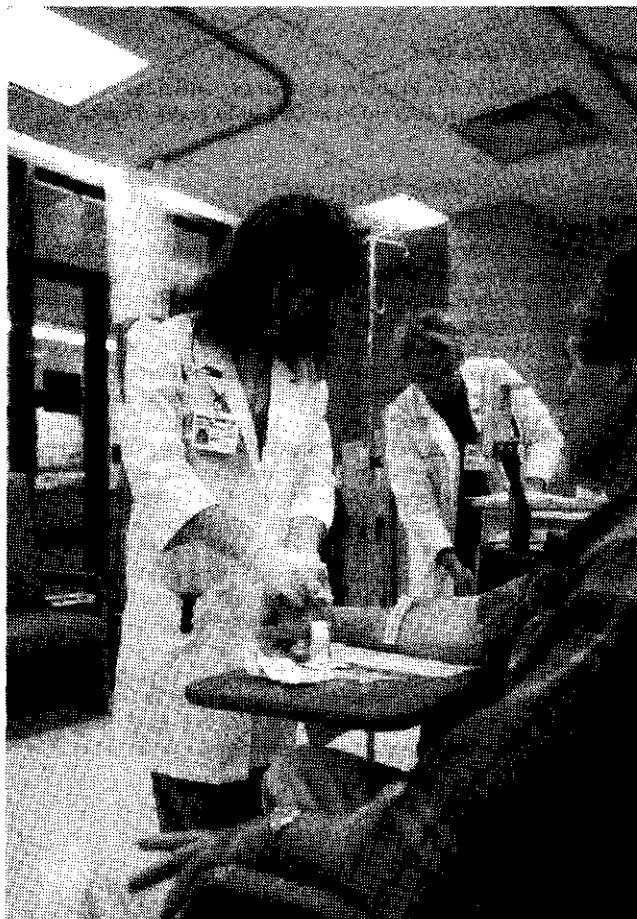
Prereq: consent of instructor. Lectures and discussions; invited speakers on current topics in the profession. Topics to be announced in *Schedule of Classes*. (Y)

5990. Directed Studies in Mortuary Science. Cr. 3

Open only to mortuary science baccalaureate degree applicants. Library and/or laboratory study of current or pending professional development; study of an existing problem, study or development of new procedure or technique. Assigned project under the guidance of departmental faculty member. (T)

5996. Mortuary Science Senior Seminar. Cr. 2

Prereq: mortuary science degree applicant. (T)



OCCUPATIONAL THERAPY

Office: 311 Shapero Hall; 577-1435

Chairperson: Susan Esdaile

Professors

Susan Esdaile

Emerita Professors

Miriam C. Freeling, H. Barbara Jewett, Suesetta McCree

Associate Professor

Nancy J. Powell

Assistant Professors

Karmen Brown, Georgiana Herzberg

Adjunct Associate Professor

Elisabeth Olson

Adjunct Instructor

Diane Brazen

Part-Time Faculty

Diane Adamo, Lori Anspach, Donna Case, Doreen P. Head, Els Nieuwenhuijsen

Cooperating Faculty

William Crossland, Merlin Ekstrom, Rita Granda, Amelia Jones, Eberhard Mammen, Jerry Mitchell, Howard Normile, Martha Rodin, Thomas Sullivan, C. Winnega

Michigan Field Work Supervisors

Sherry Adams, Karen Allen, Robin Alley, Kathy Anderson, Marci Anderson, Diane Ardent, Mary Audia-Vallier, Annette Babinski, Mary Barclay, Angie Bayci, Kathy Berman, Pat Bernier, Diane Brazen, Hope Brucki, Barbara Butyer, Donna Byrd, Sandra Carr, Ann Carson, Barbara Carson, Beth Castigline, Fred Cavataio, Sherrie Coaster, Sharon Costa, Judy Crispen, Mary Kay Curry, Linda Cyburt, Jennifer Daffell, Pam Damman, Kevin Davis, Leon Debien, Mary Delamora, Beverly Dellon-Ekkens, Kathy DeFault, Donna Dykstra, Tamara Eisenhardt, Renee Ettinger, Louise Fragnoli, Gail Gala, Cheryl Garnett, Diane Gibson, Ann Gildea, Marilyn Gilin, Carol Hable, Jenifer Hallman, Katie Higgins, Gerri Howard, Susanna Ickes, Amelia Jones, Charles Kanmann, Marz Kaye, Vicki Kienman, Cindy Knapp, Paulette Knicely, Bernadette Kosir, Susan Koziatek, Sue Kosub, Kristie Kruger, Sharon Last, Celest Latcha, Sherry Lewis, Sue Mack, Sue Maddux, Dawn McDuffy, Debbie McMahon, Suzanne Meyer, Lori Meyers, Florence Monnier, Cindy Muszynski, Linda Netzel, Patty Obrzut, Colleen O'Donald, Connie O'Rourke, Kim Pace, Murry Palmer, Debbie Petit, Debbie Pfaff, Kay Pfeifer, Donna Pinterpe, Rasa Poorman, Mary Ann Provancher, Rita Ray, Joyce Rayford, Nancy Rehan, Jacqueline Row, Beverly Sabolewski, Linda Schmidt, Barbara Schriber, Denise Seidl, Margorie Shoup, Susan Smith, Kathleen Stadwick, Joan Stofflet, Amy Sumner, Teresa Sweeney, Lucretia Taylor, Mary Theeck, Sandy Thom, Jill Titus, D'Ane Ventimiglia, Kay Wizinsky, Kay Wolfe

Degree Programs

BACHELOR OF SCIENCE in Occupational Therapy

**MASTER OF SCIENCE in Occupational Therapy*

Occupational therapy is the use of purposeful activity with individuals who are limited by physical injury or illness, psychosocial dysfunction, developmental or learning disabilities, poverty and cultural differences, or aging process, in order to maximize independence, prevent disability and maintain health. The practice encompasses evaluation, treatment and consultation. Specific occupational therapy services include teaching daily living skills; developing perceptual-motor skills and sensory integrative functioning; developing play skills and prevocational and leisure capacities; designing, fabricating, or applying selected orthotic and prosthetic devices or selected adaptive equipment; using specifically designed activities and exercises to enhance functional performance; administering and interpreting tests such as manual muscle and range of motion; and adapting environments for the handicapped. These services are provided individually, in groups, or through social systems.

Programs: This department offers occupational therapy education leading to a baccalaureate degree. The bachelor's degree program, consisting of two years of preprofessional course work and two and one-half years of professional study, is designed for the incoming freshman to the University. Students who hold a baccalaureate degree acceptable to Wayne State University and who complete all professional program requirements are granted a second baccalaureate degree.

The professional program, taken in the College of Pharmacy and Allied Health Professions, is designed for full-time or part-time enrollment. Students must be formally accepted by the College of Pharmacy and Allied Health Professions before admission to the professional courses.

Accreditation: Wayne State University offers courses of study which are accredited by the American Occupational Therapy Association, and which prepare the student to take the national certification examination.

Bachelor of Science in Occupational Therapy

Admission

Preprofessional: Incoming freshmen, intending to pursue the Bachelor of Science in Occupational Therapy degree, must first complete two years of preprofessional study in the College of Liberal Arts. The admission requirements for that College are satisfied by regular undergraduate admission to the University; see page 15.

The following curriculum is required of all degree candidates for subsequent admission to professional study in the Department of Occupational Therapy.

PREPROFESSIONAL PROGRAM

credits

CORE COURSES:

American Society and Institutions (AI) course	3
BIO 1510—(LS) Basic Life Mechanisms	4
BIO 2870—Anatomy and Physiology	5
CHM 1020—(PS) General Chemistry I	4
ENG 1020—(BC) Introductory College Writing	4
ENG 3010—(IC) Intermediate Writing	3
PHY 2130—(PS) General Physics	4
PSY 1020—(LS) Elements of Psychology	3
PSY 3310—Abnormal Psychology	4
Social Sciences (SS) course	3
SPB 1010—(OC) Oral Communication: Basic Speech	3
SPC 5200—Group Communication and Human Interaction	3
Statistics course (STA 1020 or PSY 3010 or other)	3

* For specific requirements, see the Wayne State University Graduate Bulletin.

ADDITIONAL GENERAL EDUCATION REQUIREMENTS:

Critical Thinking (CT) competency requirement	3
Foreign Culture (FC) course *	3
Historical Studies (HS) course	3
NUR 1110 — (CL) Intro. to Computers & Technology for Health Care Professionals ..	2
PHI 2320 — (PL) Introduction to Ethics (or another PL course)	3
Mathematics Competency (MC) requirement	3
PHI 1050 —(CT) Critical Thinking	3
UGE 1000 —(GE) The University and its Libraries	1
Visual and Performing Arts (VP) course	3

In addition, undergraduate students (with no previous degree) must satisfy both the Mathematics Competency (MC) and English Proficiency (EP) requirements

Professional Program Admission: An application for admission to the professional program may be submitted to the Department of Occupational Therapy any time up to January 30 of the year the student wishes to be considered for enrollment. In addition to the application, the student must:

1. hold a minimum cumulative honor point average of 2.8 (A=4.0) for the forty-six preprofessional credits listed above.
2. complete forty hours of contact with a registered occupational therapist. These contact hours may be in one facility with one therapist, or with a variety of facilities and therapists. The total contact hours must equal forty. Documentation must be completed by the therapist(s) with whom the student had the contact experience(s). Completion of O T 3200 and O T 2050 may be used as ten contact hours each; the professor(s) of the course(s) must document the contact hours.
3. complete a Department of Occupational Therapy Personal/Professional Statement.
4. submit one recommendation from a Registered Occupational Therapist or former employer. Students who have no work experience may seek a recommendation from a instructor of one of the Occupational Therapy Core Courses.

Degree Requirements

The Bachelor of Science degree requires a minimum of 135 credits in course work including preprofessional study (see above), and professional courses (see below). The professional program consists of six semesters of full-time academic work followed by six months of full-time field work experience. During the professional program the student must complete the following courses in basic and medical science, and occupational therapy theory and practice, as well as related health science courses. Upon satisfactory completion of the degree, the graduate is eligible for examination and certification procedures of the American Occupational Therapy Certification Board.

PROFESSIONAL PROGRAM

credits

ANA 3030 —Anatomy	3
ANA 3040 —Human Neuroanatomy and Neurophysiology	2
NUR 3300 — Pathophysiology Related to Nursing Practice	2
O T 3000 —Introduction to Occupational Therapy	3
O T 3020 — Developmental Assessment & Performance Techniques	2
O T 3100 —Clinical Psychiatry	4
O T 3300 —Concepts in Kinesiology for Occupational Therapy	3
O T 3400 —Clinical Medicine	4
O T 4070 —Roles and Functions I	2
O T 4080 —Roles and Functions II	2
O T 4200 —Theory and Practice I	4
O T 4210 —Theory and Practice II	4
O T 4220 —Theory and Practice III	3
O T 4230 —Theory and Practice IV	5
O T 4260 —Level I Field Work Experience	1
O T 4270 — Mental Health Level I Field Work Experience	1
O T 4300 —Client Issues in Occupational Therapy	2
O T 4350 —Occupational Therapy Seminar	3
O T 4500 —Social and Organizational Aspects of Health Care	2
O T 4600 —Group Process as an Occupational Therapy Modality	1
O T 4998 —Field Work I (see below)	5
O T 4999 —Field Work II (see below)	5
O T 5993 — (W) Writing Intensive Course in O T	0
O T Introduction to Research course	2
Culture and Disability course	3
Level I Field Work	1

Courses required if not completed as preprofessional program electives:

O T 2050 —Leisure/Play as Occupation	2
O T 3200—Life Tasks	2
AED 5260 —Methods and Material: Wood, Metal, and Plastic	2

Field Work: During the final portion of the curriculum, the student must participate in two full-time three-month field experiences (O T 4998, 4999) which serve to integrate the theoretical aspects of occupational therapy with practical application under the supervision of qualified therapists. These field experiences may take place within and outside the Detroit metropolitan area. All placements are carefully selected to provide experiences essential to enhance the application of the student's knowledge of the profession.

Second Bachelor's Degree Program

Admission: Applicants to the second bachelor's degree program must comply with the professional program core course admission requirements (see above). Additional General Education Requirements are not required for second bachelor's degree students.

Academic Regulations

Once a student is enrolled in the professional program, a cumulative honor point average (h.p.a.) of 2.5 or above must be maintained.

Probation: A student whose h.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 h.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 program. A student on probation may not register during mail registration, as semester grades must be received prior to registration.

* NUR 4800, (FC) Transcultural Health through the Life Cycle, is recommended for students who have completed at least sixty credits.

Repeating Courses: A grade of 'D' in a prerequisite to a professional course, or in a professional course, indicates unsatisfactory performance, and the course must be repeated. A grade of 'D' in a professional course may not remain on a student's transcript. A grade of 'D' in a sequential course prohibits election of further courses in the sequence until that course is successfully 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 'D' 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 Aids, 2 East, Helen Newberry Joy Students Services Center, Detroit, Michigan 48202.

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

The Honor Graduate of the Year Award recognizes the senior student who, upon completion of his/her academic program, has attained the highest scholarship of the senior class.

The Barbara Jewett Scholarship Award is presented by the Wayne State University Occupational Therapy Alumnae Association, to deserving professional students to assist them in their educational pursuits.

The Ruth Marion Miller Memorial Student Loan Fund provides loans to qualified occupational therapy students.

The Occupational Therapy 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.

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 African American Occupational Therapy Student Organization's primary efforts are to introduce minority students to the field of occupational therapy, to recruit prospective high school minority students into the occupational therapy program, 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 occupational therapy honor society. To be eligible, a student must 1) be in the top thirty-five percent of the class, 2) have achieved a 3.3 (4.0=A) cumulative grade point average, and 3) have successfully completed all prerequisite

classes for the curriculum. 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.

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2050. Leisure/Play as Occupation. Cr. 2

Lectures, discussions, demonstrations and practical experience involving the leisure/play occupation. Issues, concepts and application as related to lifestyles. (F,W)

3000. Introduction to Occupational Therapy. Cr. 3

Prereq: admission to the occupational therapy professional program. Material fee as indicated in *Schedule of Classes*. 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. (F)

3020. Developmental Assessment and Performance Techniques. Cr. 2

Prereq: PSY 1020; BIO 1050, BIO 2870; SOC 2000; admission to OT professional program. Material fee as indicated in *Schedule of Classes*. Lecture, discussions, field observations on interaction of environmental factors with sensorimotor, cognitive, psychosocial, physiological components. Normal skills and activities inherent in different life roles through the life stages. Continuum of healthy or well lifestyles in lifespan. (F)

3100. Clinical Psychiatry. Cr. 4

Prereq: consent of adviser. Study of the major categories of psychiatric conditions and their clinical treatment including psychiatric interview and crisis intervention techniques. Lecture, demonstration, participation and field experience. (W)

3200. Life Tasks. Cr. 2

Material fee as indicated in *Schedule of Classes*. 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. (T)

3300. Concepts In Kinesiology for Occupational Therapy. Cr. 3

Prereq: PHY 2130, ANA 3030. Material fee as indicated in *Schedule of Classes*. Lecture and laboratory on human movement concepts prerequisite to the understanding of occupational therapy procedures applicable to patients with physical or sensory-integrative dysfunction. (F)

3400. Clinical Medicine. (P T 3400). Cr. 4

Prereq: consent of adviser. Material fee as indicated in *Schedule of Classes*. 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. (W)

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. (W)

4200. Theory and Practice I. Cr. 4

Prereq: O T 3100 and consent of adviser. Material fee as indicated in *Schedule of Classes*. Occupational therapy in mental health practice; evaluation, treatment planning, reporting and an overview of mental health theories. Lecture, class participation and field experience. (F,W)

4210. Theory and Practice II. Cr. 4

Prereq. or coreq: O T 3400; prereq: 3300, consent of adviser. Material fee as indicated in *Schedule of Classes*. 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. (F)

4220. Theory and Practice III. Cr. 3

Prereq: O T 4210. Material fee as indicated in *Schedule of Classes*. Continuation of O T 4210. (W)

4230. Theory and Practice IV. Cr. 5

Prereq: ANA 3040, O T 3400, consent of adviser. Material fee as indicated in *Schedule of Classes*. Study of the neurophysiologically-based treatment approaches in occupational therapy for patients with central nervous system dysfunction; includes occupational therapy in school systems. (F,W)

4250. Level I Fieldwork 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 affiliating agencies for minimum of thirty-six hours under supervision of registered, on-site occupational therapist. (T)

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. 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. (S)

4500. Social and Organizational Aspects of Health Care. Cr. 2

Prereq: introductory sociology courses. Health care systems, organization and financing of health care services and resources available. (W)

4600. Group Process as an Occupational Therapy Modality. Cr. 1

Prereq: consent of adviser. Experiential approach to learning group dynamics and effective group skills. Development of self-awareness and social skills necessary in building practical group skills. (F,W)

4990. Directed Study. Cr. 1-2(Max. 5)

Prereq: consent of adviser. (T)

4998. Field Work I. Cr. 5

Prereq: consent of adviser. Three months of supervised field work experience in affiliated health care agencies. (T)

4999. Field Work II. Cr. 5

Prereq: consent of adviser. Three months of supervised field work experience in affiliated health care agencies. (T)

5993. (WI) Writing Intensive Seminar in Occupational Therapy. Cr. 0

Prereq: enrollment in occupational therapy program; coreq: O T 3000, 4080, 4350, 4980, or 4999. 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)

PHYSICAL THERAPY

Office: 439 Shapero Hall; 577-1432

Chairperson: Louis Amundsen

Professor

Louis Amundsen

Assistant Professors

Christine Carlson, Jacqueline Drouin, Nancy McNevin, Susan Talley

Part-Time Faculty

Linda Brabrant, Douglas Creighton, William Dwight, Brian Goslin, Kathleen J. Kovacek, Peter Kovacek, Susan Ludwick, Barbara Rubenstein, Mable Sharp

Adjunct Assistant Professors

Douglas Creighton, Peter Kovacek, Komelia Kulig, Mable Sharp

Cooperating Faculty

Maurice Castle, William Crossland, Hermann Engels, Rita Granda, Melissa Kaplan, Robert Louis-Ferdinand, Howard Normile, David Penny, John Wirth

Center Coordinators of Clinical Education

Judith Aikman, Michelle Allen, Ada Anaeme, Robert J. Baker, Joannie Barrett, Gayle Baumer, Linda Beauregard, Michael Beauvais, Major Joan Beebe, Jocelyn Blaskey, Betty Jane Blossfeld, Ellen Bonczyk-Duce, David Bonman, Audrey Boyles, Ron Brickley, Jan Brock, Michelle Brown, William Brown, Marj Bryen, Eric Carulla, Kelly Chan, Barry Chesterman, Julie Clifton, Kate Coenen, Susan Coleman, Lois Comelisse, Renee Cotrell, David Crowley, Marianne Damon, Paul Davignon, Chris Davis, Toni Dickieson, Jeff Dobbins, Patricia Ealy, John Eggart, Liz Estes, Tina Fitzgerald, Rebecca Ford, Holly Fulsher, Judy Goik, Pamela Govender, Linda Grandstaff, Cameron Griffith, Lynn Gross, Stan Guest, Alka Gulati, Linda Habrowski, Samir Hanna, Judy Harris, Arlene Hawamy, Maryann Herman, David Hudson, Cundy Huffman, Linda Isbell, Teresa Jamieson, Laura K. Kasson, Barbara Kaye, Robin Kirk, Darrell Knick, Pam Knickerbocker, Rhonda Kotzen, Martha Kramer, Michael Leither, Brenda Lowe-Jackson, Connie Machnacki, Linda Mahome, Laurie Marchiones, Todd May, Josie McCarthy, Tammy McFarland, Jackie McLoud, Susan Melchione, Theresa Moyer, John Nettie, Elaine Nevels, Jennifer Nickita, Willa Parent, Mary Pawlicki, Kathi Piepenbrok, Kate H. Pinhey, Frederick Poclask, Charuta Rajpathak, Amy Ramage, Donna Rapaski, Kay Rector, Carol Rehder, Marlene Reid, Karen Reyhl, Nicole R. Robinson, Reva Rosen, Wendy Rzeppa, Rose Marie Sager, Jeanette Salata, Kathleen Scafadi, Kim Scalise, Martha Schiller, Karen Schlichter, Marcy Schulman, Alex Sciak, Jim Scussel, Chris Sepper, Marie Smith, Kristina Snowdon, Ken Soave, Keri Spangenberg, Tom Sterling, Stephen Stewart, Lisa Stogner, Cheryl Strong, Shelly Suruki, Joyce Swartz, Lisa Swartzendrub, Rebecca Tokarczy, Miranda Traas, Kenneth Tulley, Edmond Turton, Janet Van Wieren, Jonina Waagiford, Elaine Wade, Jeannie Wagner, Laurie Wallace, Patricia Warren, Darren T. Webb, Karen Wells, Liz Whitaker, Carolyn Williams, Wally Witkowski, Kris Yackel-Friend, Jan Zehms-Stankrauff, Tony Zgardzinski

Degree Program

BACHELOR OF SCIENCE in *Allied Health Sciences*
—*Pre-Physical Therapy Concentration*

*MASTER OF PHYSICAL THERAPY

* For specific requirements, see the Wayne State University Graduate Bulletin.

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 College of Pharmacy and Allied Health Professions 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 interim 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 26). 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

	<i>credits</i>
BIO 1500 — Basic Biology	4
BIO 1510 — (LS) Basic Life Mechanisms	4
PSL 3220 — Fundamentals of Human Physiology	4
BCH 1010 or CHM 1030	
— Introductory Biochemistry	2
— General Chemistry II	4

CHM 1070 or CHM 1050	
—(PS) Principles of Chemistry I	4
—(PS) Introductory Principles of Chemistry	6
PHY 2130—(PS) General Physics	4
PHY 2140—General Physics	4
STA 1020—Introduction to Statistics	3
MAT: Math Proficiency Exam/Math Competency	
PSY 1010—(LS) Introductory Psychology	4
PSY 2400—Developmental Psychology	4
ENG 1020—(BC) Introductory College Writing	4
ENG 3010—(IC) Intermediate Writing	3
P S 1010—(A) American Government	4
HEA 2330—First Aid and CPR	3

In addition to the above, the following General Education Requirements (see page 26) must also be satisfied:

- (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 College of Pharmacy and Allied Health Professions. 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, College of Pharmacy and Allied Health Professions. Applications are available November 15 from the Office of the Registrar of the College, 139 Shapero Hall. 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 honor point average of 3.0 in all preprofessional course work, and prerequisite science and mathematics courses; and a minimum cumulative honor 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

	<i>credits</i>
ANA 3030—Anatomy	3
ANA 3040—Human Neuroanatomy and Neurophysiology	2
IHS 3100—Basic Mechanisms of Human Disease I	5
IHS 3200—Basic Mechanisms of Human Disease II	5
IHS 3300—Pharmacology for Allied Health Professions	1
P T 4020—Introduction to Physical Therapy	3
P T 4120—Human Growth and Development	4
P T 4220—Basic Therapeutic Procedures	2
P T 4320—Basic Evaluation Procedures	3
P T 4400—Clinical Medicine I	2
P T 4430—Clinical Medicine II	2
P T 4500—Kinesiology I	3
P T 4650—Kinesiology II	2
P T 5100—Therapeutic Exercise	2
P T 5460—Integrated Physiology	2
P T 5800—Clinical Education	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 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 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 Aids, 2 East, Helen Newberry Joy Student Services Center, Detroit, Michigan 48202. 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

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

ANATOMY (ANA)

3030. Anatomy. Cr. 3

Open only to students in Allied Health Programs. Material fee as indicated in *Schedule of Classes*. Dissection and prosection; emphasis on neuromuscular system and functional correlation. (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)

PHYSICAL THERAPY (P T)

4020. Introduction to Physical Therapy. Cr. 3

Prereq: admission to physical therapy professional program. Historical and sociological perspectives on the profession. Introduction to basic patient care emergency procedures. (S)

4100. Psycho-Social Aspects of Health Care. Cr. 2

Prereq: P T 3100, 3800. The supportive role of the physical therapist as a helping professional. The psychological and emotional reactions; social, moral and ethical implications; coping mechanisms and support systems of individuals experiencing stress, illness, disability or death. Self-analysis of personal attitudes and perceptions. (F)

4110. Organization and Management of Health Care Systems. Cr. 3

Coreq: P T 4800. Overview of health care systems, their organization and financing; various alternatives of health care. Physical therapy, services within systems: planning, organization, administration and evaluation; ethical and professional conduct, inter- and intra-professional relationships. (W)

4120. Human Growth and Development. Cr. 4

Material fee as indicated in *Schedule of Classes*. 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. (F)

4220. Basic Therapeutic Procedures. Cr. 2

Prereq: P T 3100, 3420 or consent of adviser. Material fee as indicated in *Schedule of Classes*. Principles and techniques of basic therapeutic procedures, including massage, superficial heat and cold, basic and postural exercises, transfers and gait patterns. Laboratory. (W)

4400. Clinical Medicine I. Cr. 2

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: ANA 3030 or consent of adviser. Students must register for both sections. Material fee as indicated in *Schedule of Classes*. 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. (F)

4650. Kinesiology II. Cr. 2

Prereq: P T 4500. Continuation of P T 4500. Additional depth and breadth. (W)

4700. (WI) Research Practicum. Cr. 2

Prereq: P T 3700 or consent of adviser. Student computer account required. Material fee as indicated in *Schedule of Classes*. Application of basic principles of investigation to design and implement a research project. Oral and written presentation required. (W)

4990. Directed Study. Cr. 1–4

Prereq: consent of adviser; first year professional courses. Independent study: critical analysis or review of concerns in health care; or physical therapy role, approach, methodology, technique or

scientific rationale for clinical procedures. Oral and written presentation required. (T)

5100. Therapeutic Exercise. Cr. 2

Prereq: P T 4430, 4460, 4500, and 4650. 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. (Y)

5460. Integrated Physiology. Cr. 2

Prereq: IHS 3200, ANA 3040, consent of adviser. Processes of selected physical functions that have special relevance to selected aspects of physical therapy; theoretical and practical aspects. (S)

5800. Clinical Education I. Cr. 2

Prereq: consent of adviser. 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)



RADIATION THERAPY TECHNOLOGY

Office: 121 Shapero Annex; 313 577-1137

Chairperson: Diane K. Chadwell

Assistant Professor

Diane K. Chadwell

Senior Lecturer

Adam F. Kempa

Medical Adviser

John J. Feldmeier

Adjunct Associate Professor

Jacek G. Wierzbicki

Adjunct Assistant Professors

Rosann Keller, Archana R. Somnay

Adjunct Instructor

Michael DeSantis

Cooperating Faculty

Suzanne Chungbin, Merlin E. Ekstrom, Gary A. Ezzell, Colin G. Orton

Clinical Education Coordinator

Michael DeSantis

Clinical Education Supervisors

Sandra Hayden, Mary Kormos, Lorrie Lipa, Gerard Szyndlar

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, and educational institutions as staff therapists, clinical supervisors, administrators, and educators. 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; it 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

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, 3 East, Helen Newberry Joy Student Services Center. Students should consult with the University Advising Center, 2 East, Helen Newberry Joy Student Services Center, regarding *course* selection. Students are urged to seek additional *career* advisement from the Department of Radiation Therapy Technology *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.

For additional procedures, refer to the Undergraduate Admissions section for the Faculty of Allied Health Professions, page 361.

PREPROFESSIONAL PROGRAM

Each of the following required preprofessional courses (or its equivalent) must be completed with a minimum grade of 'C.'

First and Second Years

	<i>credits</i>
BIO 1500—Basic Biology	4
BIO 1510—(LS) Basic Life Mechanisms	4
BIO 4710—Comparative Vertebrate Morphology and Evolution	5
CHM 1020—(PS) General Chemistry I	4
ENG 1020—(BC) Introductory College Writing	4
ENG 3010—(IC) Intermediate Writing	3
MAT 1800—Elementary Functions	4
PHY 2130—(PS) General Physics	4
PHY 2140—General Physics	4
PSY 1010—(LS) Introductory Psychology	4
PSY 2300—Psychology of Adjustment	4
SPB 1010—(OC) Oral Communication: Basic Speech	3
UGE 1000—(GE) The University and its Libraries	(1)
American Society & Institutions (AI) elective *	3
Foreign Culture (FC) Elective *	3
Historical Studies (HS) Elective *	3
Humanities (VP,PL) Electives *	6
Computer Literacy (CL) Competency: by Exam or course	(3)
Critical Thinking (CT) Competency: by Exam or course	(3)
Total:	62

* General Education Group requirements.

Professional Program Admission: 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 honor 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 for the College of Pharmacy and Allied Health Professions, with a copy of the student's Wayne State transcript attached. *Mail completed form and Wayne State transcript to:* Office of the Registrar, College of Pharmacy and Allied Health Professions, Wayne State University, Detroit, Michigan 48202.

4. Submission of *official* transcripts from all college institutions attended (other than Wayne State). *Mail transcripts to:* Department of Radiation Therapy Technology, College of Pharmacy and Allied Health Professions, 121 Shapero Annex, Wayne State University, Detroit, Michigan 48202.

5. Meeting with a department 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. Completion of the Allied Health Professions Admissions Test (AHPAT). Application forms for this examination may be obtained from the University Advising Center, 2 East, Helen Newberry Joy Student Services Center, or from Testing and Evaluation Services, 698 Student Center. This test should be taken no later than January of the year in which admission is sought. Application date for AHPAT is about six weeks prior to exam date.

8. Submission of two reference forms (available from the Department): one from an employer/supervisor and one from a college professor/adviser.

9. Satisfaction of the University Requirements in English and Mathematics Proficiency (documentation is required).

The information requested in requirements 4, 7, 8 and 9, above, should be submitted to the Chairperson, Department of Radiation Therapy Technology, 121 Shapero Annex, College of Pharmacy and Allied Health Professions, Wayne State University, Detroit, Michigan 48202.

Application packets, including an application form, reference forms, and current procedural guidelines, are available from University Advising or the Department of Radiation Therapy Technology.

Application Deadline: *The deadline for applications is April 1.* Applications which are incomplete by April 1 or are submitted after that date will be considered only with the approval of the Chairperson. 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: The Department of Radiation Therapy Technology will review all applications 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 Department of Radiation Therapy Technology 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 127 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 College of Pharmacy and Allied Health Professions. 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, and private clinics.

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 regarding the program* from the Department of Radiation Therapy Technology, Wayne State University; telephone: 313-577-1137; Fax: 313-577-0908.

PROFESSIONAL PROGRAM

Third Year

	credits
BIO 2870 — Anatomy and Physiology	5
NUR 3300 — Pathophysiology Related to Nursing Practice	2
IHS 3210 — Basic Mechanisms of Human Disease: Laboratory	1
R T 3000 — Clinical Care Procedures	2
R T 3010 — Introductory Radiation Physics	3
R T 3020 — Clinical Radiation Physics	4
R T 3110 — Clinical Aspects of Radiation Therapy	3
R T 3140 — Topographical Anatomy and Medical Imaging	2
R T 3180 — Design & Construction of Treatment Accessories	1
R T 3200 — Therapeutic Interactions in Oncology Care	2
R T 3310 — Clinical Practicum I	3
R T 3320 — Clinical Practicum II	4
R T 3330 — Clinical Practicum III	4
Total:	36

Fourth Year

R T 4110 — Clinical Radiation Oncology	4
R T 4120 — Basic Clinical Dosimetry	3
R T 4140 — Radiation Pathology	2
R T 4150 — Radiobiology for the Technologist	2
R T 4220 — Radionuclide Physics	3
R T 4240 — Radiation Therapy Technology Seminar	3
R T 4300 — Quality Assurance	2
R T 4350 — Clinical Practicum IV	4
R T 4360 — (W) Clinical Practicum V	4
R T 4370 — Clinical Practicum VI	4
Elective	3
Total:	34

Scholarship: Students in the professional program are subject to high academic and professional standards. A grade of 'C' or above is

required in each professional course, and the student must maintain a term honor point average of 2.50 throughout the program. A grade of 'D' in a professional course indicates unsatisfactory performance, and repetition of the course is required. The Academic Committee will review the status of any student receiving a grade of 'D', and dismissal from the professional program may result. A second grade of 'D' or a single grade of 'E' will result in 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 Department of Radiation Therapy Technology.

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 Department, 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.

UNDERGRADUATE COURSES (R T)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

The following courses, numbered 0900–6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 487.

3000. Clinical Care Procedures. Cr. 2

Material fee as indicated in *Schedule of Classes*. Procedures and ethics related to the care and examination of the radiation oncology patient. (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. 4

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. 2

Material fee as indicated in *Schedule of Classes*. 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; fundamentals of radiographic exposure techniques and film processing. (W)

3180. Design and Construction of Treatment Accessories. Cr. 1

Material fee as indicated in *Schedule of Classes*. 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. (S)

3200. Therapeutic Interactions in Oncology Care. Cr. 2

Open only to radiation therapy technology students. Material fee as indicated in *Schedule of Classes*. 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. (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 types of radiation producing equipment. Observation and performance of clinical care procedures pertinent to radiation oncology patients. Development of communication skills in patient/technologist relationships. Correlation of knowledge of medical imaging techniques to diagnostic workup and treatment planning. (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. (S)

4110. Clinical Radiation Oncology. Cr. 4

Material fee as indicated in *Schedule of Classes*. 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. (F)

4120. Basic Clinical Dosimetry. Cr. 3

Prereq: R T 4110. Material fee as indicated in *Schedule of Classes*. Basic concepts of clinical dosimetry and treatment planning; various external beam techniques, depth dose data, and summation of isodose curves. (W)

4140. Radiation Pathology. Cr. 2

Material fee as indicated in *Schedule of Classes*. Basic principles of neoplasia, including types of growth, causative factors, biological behavior, and significance of staging procedures. Pathology of radiation injury. (F)

4150. Radiobiology for the Technologist. Cr. 2

Biological effects of ionizing radiation on living tissue. Cell and tissue radiosensitivity; radiation syndromes and related effects. Basic principles of clinical radiation biology. (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. Material fee as indicated in *Schedule of Classes*. 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. (W)

4300. Quality Assurance. Cr. 2

Open only to radiation therapy technology students. Material fee as indicated in *Schedule of Classes*. 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. (S)

4350. Clinical Practicum IV. Cr. 4

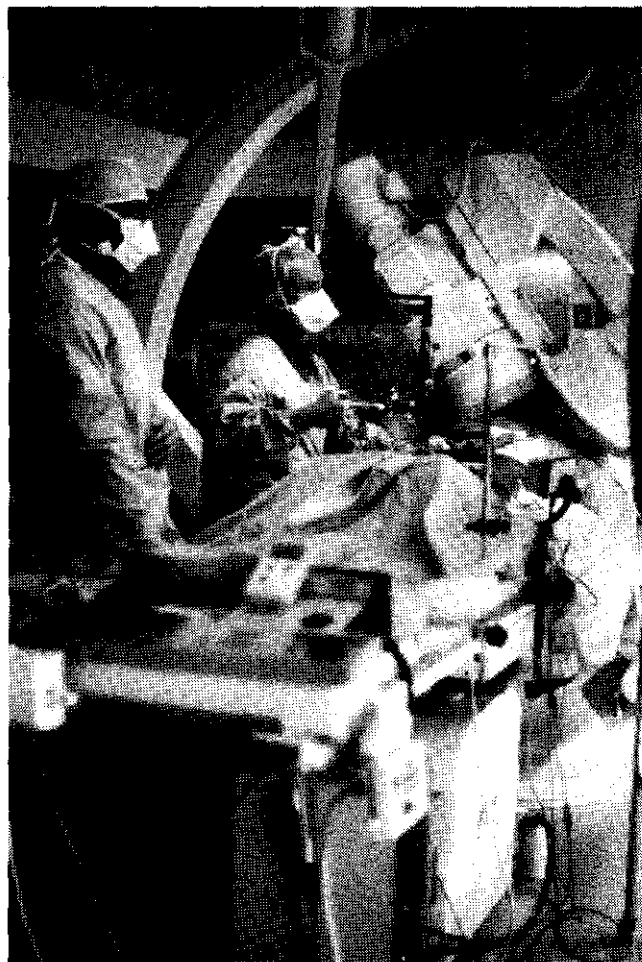
Prereq: R T 3330. Continued supervised practice in a wide spectrum of clinical activities. Submission of a critical bibliography from current literature of radiation therapy, cancer management and related areas. (F)

4360. (W) Clinical Practicum V. Cr. 4

Prereq: R T 4350. Continued clinical practice under limited supervision. Submission of essay on radiation oncology topic. (W)

4370. Clinical Practicum VI. Cr. 4

Prereq: R T 4360. Material fee as indicated in *Schedule of Classes*. 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 of quality assurance activities. (S)



COLLEGE OF SCIENCE

DEAN: John D. Petersen

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 senior 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	Mathematics
Chemistry	Nutrition and Food Science
Computer Science	Physics
Geology	Psychology
Information Systems	Speech–Language Pathology
Linguistics	

BACHELOR OF ARTS HONORS with majors in:

Biological Sciences Honors	Nutrition and Food Science Honors
Chemistry Honors	Psychology Honors
Geology Honors	

BACHELOR OF SCIENCE with majors in:

- 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	Nutrition and Food Science
Chemistry	Physics
Computer Science	Psychology
Linguistics	Speech–Language Pathology
Mathematics	
Mathematical Statistics	

**MASTER OF ARTS IN HUMAN DEVELOPMENT*

**MASTER OF ARTS IN TEACHING COLLEGE MATHEMATICS*

**MASTER OF SCIENCE with majors in*

Audiology	Molecular Biotechnology
Biological Sciences	Nutrition and Food Science
Chemistry	Physics
Computer Science	
Geology	

* For specific requirements, consult the Wayne State University Graduate Bulletin.

**DOCTOR OF PHILOSOPHY with majors in*

Biological Sciences	Physics
Chemistry	Psychology
Computer Science	Speech-Language
Mathematics	Pathology
Nutrition and Food Science	

COLLEGE DIRECTORY

Dean:
John D. Petersen Old Main; 577-2515

Associate Dean:
Lowell E. Wenger Old Main; 577-2520
Alice M. Young Old Main; 577-2530

Administrative Assistant Dean
Sheryl Lamarand Old Main; 577-8014

Service Areas

Graduate Office 2226 Faculty/Administration Bldg.; 577-2690
Major/Curriculum Office 2226 Faculty/Administration Bldg.; 577-3117
College Grade Change Coordinator
2226 Faculty/Administration Bldg.; 577-8001
Undergraduate Degree Certification 577-3117
Educational Adjustment Committee
2226 Faculty/Administration Bldg.; 577-8001

Departmental Offices

Audiology & Speech-Language Pathology
581 Manoogian; 577-3339

Biological Sciences 1360 Biological Sciences; 577-2873
Chemistry 123 Chemistry; 577-2595
Computer Science 431 State Hall; 577-2477
Geology Old Main; 577-2506
Honors Program 2311 Faculty/Administration Bldg.; 577-3030
Linguistics 51 W. Warren; 577-8642
Mathematics 1150 Faculty/Administration Bldg.; 577-2479
Nutrition and Food Science 3009 Science Hall; 577-2500
Physics and Astronomy 135 Physics; 577-2721
Psychology 71 W. Warren; 577-2800

Mailing address for all offices:

(Department Name), College of Science, Wayne State University,
4841 Cass Avenue, Detroit, Michigan 48202

* For specific requirements, consult 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.)

Honor Point Average: All students are required to maintain an over-all honor point average of C (2.0) for all degree work elected. See 'Honor Point Average,' page 44.

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 26.

Group Requirements

Group Requirements for students in the College of Science overlap considerably with those of the University General Education Program (see page 28). 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 Cultural Studies (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 34. 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 Office.

AMERICAN SOCIETY AND INSTITUTIONS (AI) The College list is the same as the University list, except that the College list does not include AGS 3420 and GSS 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, 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 GIS 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 GUH 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, 1050, 1070, 1310; 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 GST 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 AGS 3480 and GSS 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 GUH 2730. One course is required.

CULTURAL STUDIES

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; GER 2710, 2720; GRK 3710; ITA 2710, 2720; N E 200, 2010; RUS 3510.

Note: The Junior Year in Germany experience also meets the Cultural Studies requirement.

THE UNIVERSITY AND ITS LIBRARIES as specified in the University General Education Program (see page 30).

UNIVERSITY REQUIREMENT IN AMERICAN GOVERNMENT for students enrolled prior to Fall Term 1987: See General University Information, page 30.

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 pages 393–394.

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, 2 East, Helen Newberry Joy Student Services Center. A 2.00 cumulative h.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 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. 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 honor 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. Declaration of the minor will be made by the student only when filing for graduation.

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.

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:

Areas	<i>maximum degree credit</i>
Dance (approved courses)	16
Health	8
Applied Music (including the limitation stated in the paragraph below)	16
Physical Education (activity)	4

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
MUA 2810	University Symphony Orchestra
MUA 2820	Jazz Lab Band
MUA 2830	Men's Glee Club
MUA 2840	Choral Union
MUA 2850	Concert Chorale
MUA 2870	Women's Chorale
MUA 2880	Chamber Music and Special Ensembles
SPR 2670	Radio-Television-Film Laboratory
SPC 2240	Forensics Practicum

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 (College of Lifelong Learning): 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

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 Science.

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) honor 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 take, with the approval of their major departments, their junior year's work in Germany under the Junior Year in Munich or Freiburg Program. Four semesters of college German or the equivalent with an average of B or better are prerequisite. Participants will earn credit for one academic year (September through July) as fully enrolled (matriculated) students at the cooperating Universities of Munich or Freiburg. Interested students should contact the Junior Year in Germany offices at 471 Manoogian, or phone 577-4605.

The Wayne at Gordes Summer Program offers up to twelve credits in advanced French, which may be earned during a six-week summer session in the Renaissance village of Gordes in the south of France. French 3100 or its equivalent is the prerequisite. Interested students should contact Professor Donald Spinelli at 467 Manoogian, or telephone 577-8895.

Wayne in Italy is a summer program for beginners in Italian as well as for advanced students. Up to twelve credits may be earned during a six week session in Bologna, Italy. Interested students should contact

Professor Andrea di Tommaso, 415 Manoogian, or telephone 577-6247.

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 honor point average of 3.0 or above are eligible to elect Honors Program courses. For a description of the Honors Program, see page 420.

'A GRADE'—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 'A GRADE' program. 'A GRADE' 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 'A GRADE' programs may expect to complete the bachelor's and master's degrees in five years of full-time study.

An 'A GRADE' 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 h.p.a. at the 'Cum Laude' level (approximately 3.4) and not less than a 3.6 h.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 'A GRADE' courses to be included in subsequent semesters.

For more details about the 'A GRADE' program, contact the chairperson of the major department, or the Graduate Office of the College of Science (577-2690).

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 honor 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 honor points used to identify the lower limits for each designation will be based upon the honor 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 honor point average for students registered for full-time programs of twelve credits or more which contribute to the honor point base; A 4.0 honor 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 44.)

Academic Probation

Low Honor 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 Honor 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 h.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, 2 East, Helen Newberry Joy Student Services Center, 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 21), and individual departmental sections below.



UNDERGRADUATE CURRICULA

credits

Biology or Zoology with laboratory	12-16
Chemistry: Inorganic, including qualitative analysis, & lab	9-11
Chemistry: Organic with laboratory	8-10
English	8-12
Physics with laboratory	8-10

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)	4
Mathematics	4
Science elective	4
Prospective major course	4-5
UGE 1000 (GE)	1
Total:	17-18

Winter Semester

(IC) English elective	3
Math. or Computer Sci.	3-4
Science elective	4
Prospective major course	4-5
Total:	14-16

Sophomore Year

General Ed. Requirement	3
Language I course	4
Science or Math. elective	4
Prospective major course	4-5
Total:	15-16

General Ed. Requirement	3
Language II course	4
Science or Math. elective	4
Prospective major course	4-5
Total:	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.

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 pages 99 and 223.

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.

credits

Biology or Zoology with laboratory	12-16
Inorganic Chemistry (including qualitative analysis) & lab	9-11
Organic Chemistry with laboratory	8-10
Physics with laboratory	8-10
English	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 364.

— Cytotechnology Concentration — See page 365

Pre-Mortuary Science — See page 369.

Pre-Occupational Therapy — See page 374.

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	12-16
Inorganic chemistry with laboratory	8-10
Physics with laboratory	8-10
Mathematics:	
Algebra and Trigonometry	3-4
Calculus	6-8
English	6-8
Psychology	3
Statistics	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 371.

Pre-Pharmacy — See page 347.

Pre-Physical Therapy — See page 378.

Pre-Radiation Therapy Technology — See page 382.

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.

	<i>credits</i>
BIO 1500—Basic Biology	4
BIO 1510—(LS) Basic Life Mechanisms	4
CHM 1050 or CHM 1070	
—(PS) Introductory Principles of Chemistry	6
—(PS) Principles of Chemistry I	4
CHM 1080 —Principles of Chemistry II	5
CHM 2240 —Organic Chemistry I	4
CHM 2260 —Organic Chemistry II	4
CHM 2270 —Organic Chemistry Laboratory	2
CHM 5600 or CHM 6620	
—Survey of Biochemistry	3
—Metabolism: Pathways and Regulation	3
MAT 1800 —Elementary Functions	4
PHY 2130 or PHY 2170	
—(PS) General Physics	4
—(PS) General Physics	4-5
PHY 2140 or PHY 2180	
—General Physics	4
—General Physics	4-5
English (ENG)	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 sophomore years and transfer to the College of Education at the beginning of their junior year. Application for entrance to the College of Education should be submitted after the completion of fifty-three credits with a minimum 2.5 cumulative honor point average, and achievement of a passing score on the University English Proficiency Examination. Students should also have satisfied the 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 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, 555 Manoogian, as early as possible.



AUDIOLOGY and SPEECH-LANGUAGE PATHOLOGY

Office: 581 Manoogian; 577-3339

Acting Chairperson: Lynn S. Bliss

Graduate Officer: Lynn S. Bliss

Undergraduate Officer: Karen S. O'Leary

Coordinator of Clinical Programs: Kristine V. Sbaschnig

Professors

Lynn S. Bliss, John M. Panagos.

Associate Professor

Dale O. Robinson

Assistant Professor

Thomas H. Simpson

Lecturers

Susan Fleming, Karen S. O'Leary, Lynn E. Root, Kristine V. Sbaschnig

Adjunct Faculty

Kenneth R. Bouchard, Jaynee A. Calder, Frances E. Eldis, Ronald W. Ford, Sandra L. Hamlet, Barbara Jacobson, Gary P. Jacobson, Alex Johnson, Michael Kimbarow, Gilmour M. Peters, Kathleen Pistono, Sabina A. Schwan, Mark Simpson, Leon Stein, John Tonkovich

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*

Bachelor of Arts with a Major in Speech-Language Pathology

The mission of this department is to prepare students to work with speech-language handicapped 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 is considered to be pre-professional course work for both audiology and speech-language pathology.

Students interested in pursuing doctoral study should contact the graduate officer.

Admission Requirements are satisfied by the general requirements for undergraduate admission to the University; see page 15.

* For specific degree requirements, consult the Wayne State University Graduate Bulletin.

DEGREE REQUIREMENTS: Candidates for the Bachelor's degree must complete 120 credits of course work including satisfaction of the College Group Requirements (see page 387) and the University General Education Requirements (see page 26), 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 pages 15–45 and 387–392, respectively.

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 5080, 5090, 5120, 5300, 5310, 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.

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 21. The following awards are 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

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487:

Audiology (AUD)

5400. Introduction to Audiology. Cr. 3

Introduction to physics of sound, anatomy of the hearing mechanism, audiometry, 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 (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. (F)

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. (W)

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. (S)

3990. Directed Study. Cr. 1-3(Max. 4)

Prereq: written 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, written consent of undergraduate adviser. Bibliographic and research experiences; review of recent literature; research project. (T)

5080. Phonetics. (SED 5320)(LIN 5080). Cr. 3

Multisensory study of sounds in the English language, emphasizing acoustic, physiologic, kinesio logic approaches. (F)

5090. Anatomy and Physiology of the Speech Mechanism. (SED 5330). Cr. 3

General science of normal speech; anatomy, physiology and mechanics of respiration, phonation, resonance, articulation. (F)

5120. Speech Science. (SED 5120). Cr. 3

Prereq: SLP 5300, 5080, 5090. Speech production, acoustics of sound, perception of the speech signal. (Y)

5300. Introduction to Speech-Language Pathology. (SED 5300). 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. (SED 5310). 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. (SED 5360)(LIN 5360). Cr. 3

Language development in children and the associated areas of emotional and motor development; language stimulation techniques and programs. (F)

5360. (WI) Clinical Practice in Speech-Language Pathology. (SED 5340). Cr. 3

Prereq: SLP 6460, 6480, and 5310, each with grade of B or better. Material fee as indicated in *Schedule of Classes*. Supervised experience in application of methods of diagnosis and treatment of clinical cases. (T)

6330. (SED 7790) Language Bases of Learning Disabilities. Cr. 3

Open only to learning disabilities/emotional impairment majors. Normal language acquisition and development and language pathology, including neurological process involved in speech reception and production, and assessment of language disorders as they relate to learning disabilities. (S)

6360. Advanced Clinical Practice in Speech-Language Pathology. (SED 6360). Cr. 3

Prereq: SLP 5360 or equiv. with grade of B or better. Material fee as indicated in *Schedule of Classes*. Supervised experience in application of methods of diagnosis and treatment of clinical cases. (T)

6460. Language and Phonological Disorders. (SED 6460). Cr. 4

Prereq: SLP 5080, 5090, 5300, 5320. Introduction to the clinical management of articulation and language disorders. (W)

6480. Organic and Fluency Disorders. (SED 6480). 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. (SED 6620). 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 Pathology: Etiology and Diagnosis. (SED 6640). Cr. 3

Prereq: SLP 5300 and 5320. Descriptions, etiology, methods of diagnosis of language disorders in children, including remediation. (F)



BIOLOGICAL SCIENCES

Office: 1360 Biological Sciences; 577-2873
<http://www.science.wayne.edu/biology/>

Chairperson: Jack Lilien

Associate Chairperson: R. Anton Hough

Academic Services Officers: Linda VanThiel

Academic Adviser: Lorna P. Brooks

Professors

Robert Arking, Walter Chavin (Emeritus), David R. Cook (Emeritus), Dominic L. DeGiusti (Emeritus), Stanley K. Gangwere, R. Anton Hough, James M. Jay (Emeritus), Jack Lilien, Lida H. Mattman (Emerita), Kazutoshi Mayeda (Emeritus), Hiroshi Mizukami, William S. Moore, David L. Njus, Howard R. Petty, William Prychodko (Emeritus), Claude M. Rogers (Emeritus), Harold W. Rossmore (Emeritus), Albert Siegel (Emeritus), P. Dennis Smith, John D. Taylor, William L. Thompson (Emeritus)

Associate Professors

Kuo-Chun Chen, D. Carl Freeman, Miriam Greenberg, V. Hari, Leo S. Luckinbill, Willis W. Mathews (Emeritus), Allen W. Nicholson, Heimo Riedel, Ann Sodja, Robert S. Stephenson, Curtis J. Swanson

Assistant Professors

Jerry Caldwell, Philip R. Cunningham, Lisa Elferink, Edward Golenberg, Mark VanBerkum

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 SCIENCE in Molecular Biotechnology*

**DOCTOR OF PHILOSOPHY with a major in Biological Sciences and specializations in cellular and developmental biology; environmental, evolutionary and systematic biology; microbiology and molecular genetics; regulatory biology and biophysics*

Bachelor of Arts

With a Major in Biological Sciences

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. The Bachelor of Arts Pre-Professional Track incorporates all of the regular College of Science Group Requirements and all recommended pre-medical course work.

Admission requirements for the College are satisfied by the requirements for general undergraduate admission to the University; see page 15. Admission to major status in this department requires completion of BIO 1500 and 1510 with a grade of 'C' or better in both courses and an overall honor point average of at least 2.0.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

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 387) and the University General Education Requirements (see page 26), 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 pages 15-45 and 387-392, respectively. An honor point average of 2.0 ('C') is required for graduation.

Biology Core Requirements: A minimum of thirty-two credits beyond BIO 1500 and 1510 are required of the major, including BIO 2200, 2600, 3070, 3100, 3120, 3400, and 5997. Students must declare their major after completing BIO 2200, 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. No course having '8' as the second digit may be used for departmental major credit. At least twelve of the thirty-two credits must be taken in residence.

Cognate Requirements: All students in biological sciences are required to take CHM 1070 (or CHM 1050), CHM 1080 and STA 1020.

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.

First Year

<i>Fall Semester</i>	<i>Winter Semester</i>
BIO 1500 (LS) 4(L)	BIO 1510 (LS) 4(L)
CHM 1050/1070 (PS) . . . 4-6	CHM 1080 (LS) 5
ENG 1020 (BC) 4	MAT 1800 4
SPB 1010 (UC) 2	Total: 13
UGE 1000 (GE) 1	
Total: 15-17	

Second Year

BIO 2200 (LS) ¹ 4(L)	BIO 2600 3
STA 1020 3	Visual & Perf. Arts (VP) . 3-4
PHI 1050 (CT) (or exam) 0-3	(AI) course 3-4
(CL) or (HS) course 3	Social Sci. (SS) 3-4
ENG 3010, 3030 or 3050(IC) 3	Total: 12-15
Total: 13-16	

Third Year

BIO 3070 4(L)	BIO 3100 3
BIO 3120 4(L)	BIO 3400 3
(HS) course 3	(PL) course 3-4
Language I course 4	Language II course 4
Total: 15	Total: 13-14

Fourth Year

BIO elective I ² 3	BIO 5993(WI)/5997 2
BIO elective II ² 3	Cultural Studies course * . . 3
Language III course 4	BIO elective III 4
(SS) course 3	(HS) course 3
Total: 13	Total: 12

* NOTE: Must be a course approved by the College of Science as satisfying Cultural Studies requirement within the College. See list above, page 388.

¹ Students must declare their major after taking BIO 2200, in order to elect higher-level courses.

² May be taken in summer following completion of core requirements; especially recommended for students interested in undergraduate research BIO 3990 enabling election of an additional biology course in the fourth 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 post-graduate 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 2200, and before electing higher-level courses. 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 387) and the University General Education Requirements (see page 26), 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 pages 15–45 and 387–392, respectively.

Major Requirements: A minimum of thirty-two credits beyond BIO 1500 and 1510 are required of the major, including BIO 2200, 2600, 3070, 3100, and 5997. Courses through the 6000 level may be elected during the final year, providing the proper prerequisites have been taken. No course having '8' as the second digit may be used for department major credit. 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 2240, 2260 and 2270, PHY 2130 and 2140 or PHY 2170 and 2180, and MAT 2010, 2020, and 2210 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 Program

First Year

Fall Semester

BIO 1500	4(L)
CHM 1050/1070 (PS)	4–6
ENG 1020 (BC)	4
UGE 1000 (GE)	1
SPB1010 (OC)	3
Total:	15–17

Winter Semester

BIO 1510	4(L)
CHM 1080 (LS)	5
MAT 1800 ³	4
ENG 3010, 3030, or 3050(IC)	3
Total:	16

Second Year

BIO 2200 (US) ¹	4(L)
CHM 2240	4
MAT 2210	4
PHI 1050 (CT) (or exam) ⁴	3
(CL) or other Gen.Ed.	3
Total:	17

BIO 2600	3
CHM 2260	4
(VP) course	3–4
(AI) course	3–4
MAT 2010	4
Total:	17–19

Third Year

BIO 3070	4(L)
BIO 3120	4(L)
PHY 2130/2170(PS)	4–5
MAT 2020	4
Total:	16–17

BIO 3100	3
BIO 3400	3
PHY 2140/2180	4–5
Language I	4
Total:	16–17

³ Students who place out of MAT 1800 should take MAT 2010 in the second semester of their first year, and MAT 2020 in the first semester of their second year.

⁴ Successful completion of the CT Competency Examination allows students to elect another General Education course in either semester.

Fourth Year

BIO elective I ²	3	BIO 5993(WI)/5997	2
BIO elective II ²	3	BIO 5997	2
(HS) course	3	Cultural Studies course *	3
Language II	4	BIO elective III	3–4
(SS) course	3	Language III	4
(PL) course	3	CHM 2270	2
Total:	16–20	Total:	16–17

—With Specialization in Biophysics

The Bachelor of Science in Biological Sciences with a specialization in biophysics is offered as an alternative Bachelor of Science degree. As with the Bachelor of Science in biological sciences, the biophysics specialization fulfills professional school requirements; the cognates differ from the regular Bachelor of Science.

Students contemplating a specialization in biophysics should consult with the departmental undergraduate adviser at the beginning of the freshman year or when transferring into the department. The major program incorporates all the regular College Group Requirements, including a foreign language. Students are urged to include the departmental core subjects (see above) in the course of study.

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 387) and the University General Education Requirements (see page 26), 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 pages 15–45 and 387–392, respectively.

Major Requirements: Biological Sciences 1500, 1510, 6020, 6160, and an additional eleven credits in biology electives are required. No course having '8' as the second digit may be used for departmental major credit. In the senior year, students should enroll in at least one credit in Biological Sciences 5996.

Cognate Requirements consist of the following:

1. Mathematics 2010, 2020, 2030, and 2350.
2. Physics 2170 and 2180 and an additional three credits in physics beyond 2180.
3. Chemistry 1070, 1080, 2240, 2260, 2270, 5420 and 5440.
4. Either Computer Science 1050 or 1120, Biological Sciences 6040, or equivalent. (If BIO 6040 is elected, its credit will not count toward the required biology electives, above.)
5. The Writing Intensive (WI) requirement may be satisfied by electing BIO 5993 with either BIO 5160 or BIO 6020.

Suggested Program

The purpose of the undergraduate biophysics and molecular biology speciality is to encourage students to obtain a broader background in physico-chemical sciences which will prepare them for advanced studies in biophysics and molecular biology as well as other biological sciences. *Students are strongly urged to complete the departmental core requirements (see above).*

* NOTE: Must be a course approved by the College of Science as satisfying Cultural Studies requirement within the College. See list above, page 388.

² May be taken in summer following completion of core requirements; especially recommended for students interested in undergraduate research BIO 3990, enabling election of an additional biology course in the fourth year.

First Year

Fall Semester

BIO 1500 (LS)	4
Chemistry 1070 (PS)	4
Language	4
English 1020 (BC)	4
Total:	16

Winter Semester

BIO 1510	4
Chemistry 1080	5
Language	4
English elective	3
Total:	16

Second Year

BIO elective	4
Mathematics 2010	4
Chemistry 2240	4
Language	4
Total:	16

Mathematics 2020	4
Chemistry 2260	4
Chemistry 2270	2
Group Requirement	3
Group Requirement	4
Total:	17

Third Year

Mathematics 2030	4
Physics 2170	5
BIO 6020	4
CSC elective	3-4
Total:	16-17

Mathematics 2350	3
Physics 2180	5
BIO elective	2
BIO elective	3
Group Requirement	3
Total:	67

Fourth Year

Chemistry 5420	3
Physics elective	3
BIO 6160	3
BIO 5996	1
Group Requirement	4
Total:	14

Chemistry 5440	4
BIO 5996	2
Group Requirement	4
Group Requirement	4
Total:	14

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 counseling 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. This program is described in more detail in the General Information section of this Bulletin. 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-one biology course credits including the following: BIO 1500, 1510, 3400, 3070 and 3120.

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.

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.

Determination of course equivalency will be made by the departmental undergraduate adviser in conjunction with the Transfer Credit Evaluation Unit of Undergraduate Admissions (3 East, Helen Newberry Joy Student Services Center). The Department reserves the right for the final determination of course equivalency.

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



UNDERGRADUATE COURSES (BIO)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99*. In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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. (Lct: 3; or Lct: 3; Dsc: 1). Cr. 3–4
Not for biology major credit. Offered for four credits to Honors students only. Society today faces major challenges from continued population growth, new diseases, environmental degradation and urban pollution. Deciphering the human genome is producing ethical dilemmas as well as important medical advances. Political and personal decisions that impact society and the individual must now take into account new biological findings. This course addresses these issues in the context of the principles and strategies of modern biological research. (T)

1050. (LS) An Introduction to Life. (Lct: 3; or Lct: 3; Lab: 3). Cr. 3–4
Meets General Education Laboratory Requirement when elected for 4 credits. For the non-science major and certain pre-professional programs. Material fee as indicated in *Schedule of Classes*. A factual and conceptual treatment of modern biology at the cell, organismal, and population levels of organization. (T)

1500. Basic Life Diversity. (Lab: 3; Lct: 3). Cr. 4
Prereq: high school science background, or BIO 1050. Required of all biological sciences majors. No credit after former BIO 1520. Material fee as indicated in *Schedule of Classes*. Physiology, ecology, evolution, and systematics, their principles, strategies and outcomes in both structure and function. (T)

1510. (LS) Basic Life Mechanisms. (Lab: 3; Lct: 3). Cr. 3–4
Prereq: high school science or BIO 1050. Only Engineering students elect for three credits. BIO 1500 and BIO 1510 required of all biology majors. Material fee as indicated in *Schedule of Classes*. 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. (T)

2030. Human Ecology. (Lct: 3; Dsc: 1). Cr. 4
Prereq: BIO 1500. No credit after BIO 1030. Interrelationships of human beings, as organisms and as a population, and the environment. Integration of human biology and environmental biology, including factors influencing population growth and its effects on the environment. Discussions, problem sets, and field trips comparing natural and industrial ecosystems. (B)

2200. (LS) Introductory Microbiology. (Lab: 4; Lct: 3). Cr. 4
Prereq: CHE 2800 or BIO 1510. Material fee as indicated in *Schedule of Classes*. 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. (T)

2600. Introduction to Cell Biology. Cr. 3
Prereq: BIO 1500, 1510, and 2200. 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. (W)

2870. Anatomy and Physiology. (Lab: 4; Lct: 3). Cr. 5
Prereq: BIO 1500 or 1510. Not for biology major credit. Material fee as indicated in *Schedule of Classes*. 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. (T)

2990. MARC Seminar. Cr. 1
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. (Lec: 3; Lab: 3). Cr. 4
Prereq: BIO 2200 and 2600 with grades of C or better. Material fee as indicated in *Schedule of Classes*. Transmission, nature and action of genetic material in organisms. Laboratory experiments to demonstrate principles of genetics. (T)

3100. Biosynthesis and Metabolism. (Lct: 3). Cr. 3
Prereq: BIO 2200, 2600, 3070, and 3120 with grades of C or above. Biosynthesis and metabolism of proteins, carbohydrates, lipids, steroids, amino acids and nucleic acids. The basic principles of enzyme kinetics in living systems. (W)

3120. Introduction to Ecology and Evolution. (Lab: 3; Lct: 3). Cr. 4
Prereq: MAT 2210; prereq. or coreq: BIO 3070; both with grade of C or above. Open only to biology majors; exceptions require consent of instructor. Material fee as indicated in *Schedule of Classes*. Analysis of the factors affecting the distribution and abundance of plants and animals. (F)

3400. Principles of Physiology. (Lct: 3). Cr. 3
Prereq: BIO 2200, 2600, 3070, and 3120 with grades of C or better. Introduction to physiology at the molecular and cellular levels: bioenergetics, metabolism and regulation, membrane permeability and excitability, motility and contractile elements, photosynthesis. (T)

3410. Principles of Physiology: Laboratory. (Lab: 3; Lct: 1; Dsc: 1). Cr. 3
Prereq: BIO 3400. Material fee as indicated in *Schedule of Classes*. Laboratory exercises demonstrate physiological phenomena at the

molecular, cellular and organ levels: nerve and muscle function, osmotic and ionic regulation, respiration and photosynthesis. (T)

3990. Directed Study. Cr. 1-4(Max. 8)

Prereq: written consent of instructor and Departmental undergraduate officer; minimum 3.0 h.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)

4600. Invertebrate Zoology. (Lab: 3; Lec: 3). Cr. 4

Prereq: completion of biology core curriculum courses or consent of instructor. Evolutionary history and phylogeny of invertebrata (exclusive of Protista). Laboratory emphasis on systematics and type genera with additional demonstrations of phyletic diversity in form and function. (Y)

4710. Comparative Vertebrate Morphology and Evolution. (Lab: 6; Lct: 3). Cr. 5

Prereq: completion of biology core curriculum or consent of instructor. Material fee as indicated in *Schedule of Classes*. 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. (T)

4990. Introduction to Research. Cr. 2

Prereq: consent of instructor. Open only to MARC trainees. Minority Access to Research Careers (MARC) trainees meet daily for four weeks during summer semester for lecture and laboratory. Molecular genetics and physiology; associated laboratory exercises. (S)

5040. Biometry. (Lct: 3; Lab: 3). Cr. 4

Prereq: BIO 3070 or 3120 and MAT 1800. Student computer account required. 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)

5100. Limnology. (Lct: 3; or Lec: 3; Lab: 6). Cr. 3 or 5

Prereq: BIO 1500 or 1520; one course in chemistry or physics. Material fee as indicated in *Schedule of Classes*. Physical, chemical and biological properties of freshwater environments. (B)

5110. Biogeography. (Lct: 3). Cr. 3

Prereq: BIO 1500 or 1520. Introductory study of principles and patterns of plant and animal distribution. (B)

5180. Field Investigations in Biological Sciences. (Fld: 6). Cr. 2-12(Max. 20)

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)

5480. Plant Pathology. (BIO 7480). Cr. 3

Prereq: BIO 1500 or 1520, and 2200. Principles of plant infection, structure and life cycle of plant pathogens, defense mechanisms, spread and control of plant disease. (B)

5550. Systematic Botany. (Lab: 3; Lct: 2). Cr. 3

Prereq: BIO 1500 or 1520. Material fee as indicated in *Schedule of Classes*. Principles and methods of taxonomy and identification of native vascular plants. (I)

5610. Vertebrate Embryology. (Lab: 4; Lct: 3). Cr. 4

Prereq: BIO 1500 or 1520. Material fee as indicated in *Schedule of Classes*. Gametogenesis and fertilization; descriptive and analytical

embryology of the sea urchin and amphibians; reproductive physiology and descriptive embryology of birds and mammals including humans. Laboratory studies of gametogenesis and development of sea urchin. (Y)

5620. Developmental Biology. (Lct: 3). Cr. 3

Prereq: BIO 3070. An analytical study of the mechanisms which govern the flow of information into and out of the nucleus thereby setting in motion various developmental processes common to many eukaryotic systems. Analysis of the causes of the events depicted in descriptive embryology. (B)

5630. Histology. (Lab: 4; Lct: 3). Cr. 4

Prereq: BIO 1500 or 1520. Material fee as indicated in *Schedule of Classes*. Characteristics and identification of normal mammalian tissues. Micro-anatomy of the mammal. Functional interpretation of microstructure and fine structure. (F)

5640. Cancer Biology I. (Lct: 3). Cr. 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)

5690. Animal Behavior. (Lct: 3). Cr. 3

Prereq: 16 credits in biology. Function, biological significance, causation, and evolution of species-typical behaviors which are part of the animal's behavioral repertoire under natural conditions. (I)

5700. Natural History of Vertebrates. (Lab: 3; Lct: 2). Cr. 3

Prereq: 16 credits in biology. Material fee as indicated in *Schedule of Classes*. Life histories, survival and evolutionary strategies, laboratory and field identification, including study techniques of vertebrates; Michigan wildlife. Field trips. (I)

5720. Ornithology. (Lab: 3; Lct: 2). Cr. 3

Prereq: BIO 1500 or 1520. Material fee as indicated in *Schedule of Classes*. Morphology, systematics, ecology, evolution, physiology and behavior of birds. Field trips. (I)

5730. Mammalogy. (Lct: 2; Lab: 6). Cr. 4

Prereq: 16 credits in biology. Material fee as indicated in *Schedule of Classes*. Systematics, geographical distribution, ecology, adaptive radiation, patterns of growth and reproduction, physiology. Field trips. (B)

5740. Entomology. (Lab: 6; Lct: 2). Cr. 4

Prereq: BIO 1500 or 1520. Material fee as indicated in *Schedule of Classes*. The systematics, classification, and functional morphology of insects; methods of collection and study of insect specimens. (I)

5750. Biology of Aging. (BIO 7750). (Lct: 3). Cr. 3

Prereq: BIO 3070 or consent of instructor. Aging and senescence viewed as fundamental biological processes common to most organisms. Discussion of investigative methods and accepted facts regarding aging; critical analysis of theoretical interpretation of the data. (B)

5993. (WI) Writing Intensive Course in Biological Sciences. Cr. 0

Prereq: senior standing; satisfactory completion of English Proficiency Examination; consent of department; coreq: BIO 5970 or 6970. 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)

5996. Senior Research. Cr. 1-2(Max. 3)

Prereq: written consent of instructor and biology adviser; minimum 3.0 h.p.a. Original research. To be taken under direction of Biological Sciences faculty. (T)

5997. Senior Seminar. (Smr: 1). Cr. 2

Prereq: senior standing in biological sciences; completion of biology core courses; consent of instructor. Aspects of current biological research. (F,W)

6000. Molecular Cell Biology I. (Lct: 3). Cr. 3

Prereq: BIO 2200 or 3400; PHY 2140; CHM 2260 or consent of instructor. 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. (Lct: 3). Cr. 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. (Lct: 2; or Lab: 6; Lct: 2). Cr. 2 or 4

Prereq: one year of chemistry and biology. Material fee as indicated in *Schedule of Classes*. 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. (F)

6030. Physiological Genetics of Modern Disease. (BIO 7030). (Lct: 3). Cr. 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)

6040. Computer Application in Life Sciences. (Lct: 2; Lab: 6). Cr. 4

Elementary introduction to microcomputers hardware and software; their utility in life science research as laboratory tools and as conceptual models. Programming in a language taught from scratch, interfacing to laboratory instruments, software for data analysis. Recommended for students from other disciplines with interest in biology. (I)

6060. Molecular Evolution. (Lct: 3). Cr. 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 genic evolution. Methods of phylogenetic inference. (I)

6070. Human Genetics. (Lct: 3). Cr. 3

Prereq: BIO 3070. Mechanisms of human inheritance in individuals, families and populations. Sampling methods and data procurement. Statistical analysis of gene frequencies; cytogenetics and biochemical determinations of phenotypes. (B)

6080. Microbial and Cellular Genetics. (BIO 7080). (Lct: 4). Cr. 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. (Y)

6090. Evolutionary Genetics. (Lab: 3; Lct: 2). Cr. 3

Prereq: BIO 3070 and 3090 or 3120. An integrated lecture/laboratory course in the application of genetics to organic evolution. Theoretical population genetics and readings in the original literature are emphasized. The laboratory has an open structure that allows students to conduct several classical experiments in population genetics. (B)

6110. Molecular Cell Biology Laboratory I. (Lct: 1; Lab: 6). Cr. 3

Prereq. or coreq: BIO 6000. Laboratory exercises demonstrate molecular and subcellular structures and functions of cells. (I)

6120. Molecular Cell Biology Laboratory II. (Lct: 1; Lab: 6). Cr. 3

Prereq. or coreq: BIO 6010 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Laboratory exercises illustrate methods and concepts of molecular biology and recombinant DNA analysis. (W)

6160. Molecular and Cellular Biophysics. (Lct: 3). Cr. 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. (W)

6180. Membrane Biology. (Lct: 3). Cr. 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 signalling. (B)

6250. Biology Instruction for Teachers. (Lct: 2). Cr. 2 (Max. 10)

Prereq: consent of instructor. Offered only for graduate credit; for teachers only. Discussion of basic biological principles in light of recent advances. (S)

6260. Laboratory Biology for Teachers. (Lab: 1). Cr. 1 (Max. 5)

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. (S)

6330. Recombinant DNA II. Cr. 3

Prereq: BIO 5330. Application of molecular biology and recombinant DNA technology of contemporary eukaryotic systems. Topics include: specialized application of PCR for cloning, generation of antibodies, expression of recombinant proteins in cultured cells and transgenic animal models. (W)

6400. Evolutionary Ecology. (Lct: 3). Cr. 3

Prereq: BIO 3070; 3090 or 3120. The merger of ecology and evolution, principally reproductive strategies. (I)

6620. Advanced Evolution. Cr. 3

Prereq: BIO 3120 or 3090 or equiv. Advanced study of theory of evolution by natural selection. Phenomena such as genetic variation selection and speciation leading to the evolution of adaptation and diversity. Evolution of Earth's biota, methods of phylogenetic inference. (Y)

6640. Advanced Ecology. (Lct: 3). Cr. 3

Prereq: BIO 3120. Discussion and analysis of recent topics in ecological theory. (I)

6670. Comparative Marine Animal Physiology and Biochemistry. (BIO 7670). (Lct: 2; Lab: 9). Cr. 5

Prereq: consent of instructor obtained in semester prior to registration; introductory biology and organic chemistry recommended. Intensified two-week program at a marine biological station. In-depth study of comparative physiology and biochemistry of marine animals. Daily field collecting, laboratory sessions and evening lectures. Individualized research projects; presentation at concluding symposium. (Y)

6690. Neurobiology I. (Lct: 3). Cr. 3

Prereq: BIO 3400 and 3100. Electrical and chemical signal transmission and signal processing in the nervous system. Integration of these functions into complex sensory and control mechanisms. Molecular mechanisms of electrical excitability and ion channels, neurotransmitters and receptors, second messengers, and feedback circuits. Neurobiology of motor control, sensory and regulatory systems. (B)

6800. (HWM 6800) Principles of Ecosystem Management. Cr. 2

Prereq: BIO 2200. Fundamentals and concepts of ecosystem management: ecological, legal, economic, sociological, and institutional factors, management tools, and practical considerations. (Y)

6840. (PHC 6340) Chemical Basis of Pharmacology. (CHM 6340). (Lct: 3). Cr. 3

Prereq: CHM 2260 and BIO 1510 or equiv. Not applicable for biological sciences major credit. Mechanisms of action and metabolism of commonly-used drugs and toxic substances from the cellular level to whole biological systems. (Y)

6990. Honors Directed Study in Biology. Cr. 1-2

Prereq: consent of instructor and department Honors adviser arranged during semester preceding election of course. Open only to junior or senior biology majors. To be taken under direction of Biological Sciences faculty. (T)

6994. Seminar in Molecular Biotechnology. Cr. 1-6

Prereq: admission to molecular biotechnology program or consent of instructor. Faculty associated with molecular biotechnology program describe their laboratory research, and outline opportunities for research training. (W)

6997. Senior Seminar: Honors Program. (Smr: 2). Cr. 2

Prereq: completion of core courses and a minimum of two credits in BIO 6990. Open only to Honors students in biology. (F,W)

6999. Terminal Essay: Honors Program. Cr. 2

Prereq: consent of department and Honors adviser; senior standing and BIO 6990. Preparation of a terminal essay, satisfactory completion of which assures Honors graduation, providing performance in preceding Honors courses has been at Honors level; to be taken under direction of Biological Sciences faculty. (T)

CHEMISTRY

Office: 221 Chemistry Building; 577-2559

Chairperson: Richard L. Lintvedt

Academic Services Officer: Sharon Kelley

Professors

Alan Brenner, Darrell D. Ebbing (Emeritus), John F. Endicott, Karl H. Gayer (Emeritus), Richard B. Hahn (Emeritus), William L. Hase, Carl R. Johnson, Tokuji Kimura (Emeritus), Stanley Kirschner (Emeritus), Norman A. LeBel (Emeritus), Richard L. Lintvedt, W. Martin McClain, Martin E. Newcomb, Jr., John P. Oliver, John D. Petersen, Colin F. Poole, Morton Raban, Gene P. Reck, James H. Rigby, Louis J. Romano, David B. Rorabacher, A. Paul Schaap, George H. Schenk (Emeritus), H. Bernhard Schlegel, Calvin L. Stevens, (Emeritus) Tche T. Tchen (Emeritus)

Associate Professors

Ashok S. Bhagwat, David M. Coleman, Robert Levis, Shahriar Mobashery, Ronald R. Schroeder, Charles H. Winter

Assistant Professors

Christine S. Chow, Gang-yu Liu, John Montgomery, John Santa Lucia, Sandra Shaner, Darryl S. Williams, Regina Zibuck

Adjunct Professors

Robert D. Bach, Roscoe Carter III, Evelyn Goldfield, Kenneth V. Honn, Erhard W. Rothe, Dennis Schuetzle

Adjunct Assistant Professor

James Proscia

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 specializations 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.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

Beginning Chemistry Courses: 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 1050 (for science majors and most pre-professional students continuing on to higher level courses). Students who have had a year or more of high school chemistry or the equivalent may register for Chemistry 1070 or 1310 (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.

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.

Chemistry 1050 is designed as the beginning chemistry course for science majors, pre-professional students, and other students who have had little or no prior experience in chemistry but desire to obtain a strong background in the fundamentals of this subject.

Chemistry 1070 is designed as the beginning course for science majors and pre-professional students who have a strong background in high school chemistry. Eligibility for Chemistry 1070 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 1310 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 two years of college chemistry. To qualify for Chemistry 1310, a student must receive a superior score on the Chemistry 1070 Qualifying 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 Merit Scholarship, admission to the Honors Program, etc.).

The sequence of Chemistry 1070 (or 1050) and 1080, or 1310 and 1320, 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 1070 and 1080 (nine credits); student is eligible to enroll in Chemistry 2240 as well as Chemistry 1320 or 3120.

Score of 3: Credit awarded for Chemistry 1070 (4 credits); student is eligible to enroll in either Chemistry 1080 or 1310.

Bachelor of Arts with a Major in Chemistry

This curriculum allows students to major with a maximum of fifty-five 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's degree must complete 120 credits in course work. This must include satisfying the University General Education Requirements (see page 26) and the College Group Requirements (see page 387), 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 pages 15-45 and 387-392, respectively.

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 1070 (or 1050), 1080, 2240, 2260, 2270, 3020, 3120, 5400 (or 5420 or 5440), 5550, and at least one of the following: 5160, 5440, 5600, 6040, 6240, 6440, 6600 or 6620. A minimum of fifteen credits in chemistry must be earned at Wayne State University. Qualified students may substitute 1310 and 1320 for 1070, 1080, and 3120. Similarly, students may substitute 2310 and 2320 for 2240 and 2260.
2. Physics 2170 and 2180.
3. Mathematics 2010 and 2020.
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 2030 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

First Year

<i>Fall Semester</i>	<i>Winter Semester</i>
UGE 1000 (GE) 1	CHM 1080 (or 1320) 5
CHM 1050 or 1070(or 1310)4-6	English (2000 level) 3
English 1020 4	Mathematics 2020 4
Mathematics 2010 4	Group Requirement 4
Group Requirement 3	Total:16
Total: 16-18	

Second Year

CHM 2240 4	CHM 2260 4
Physics 2170 5	CHM 2270 2
Group Requirements . . . 6-7	Physics 2180 5
Total: 15-16	Group Requirement 3
	Elective 3
	Total: 17

Third Year

CHM 3120	4	CHM 3020	3
Language I	4	CHM 5400 (or 5420, 5440) 3-4	
Group Requirements	8	Group Requirement	4
Total: 16		Language II	4
		Total: 14-15	

Fourth Year

CHM Elective (or CHM 5550)2-4		CHM 5550 (or CHM elect.)2-4	
Language III	4	Electives	12
Electives	3	Total: 14-16	
Group Requirement	4		
Total: 13-15			

— With Honors in Chemistry

- 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, 5600, 6620, or 6640).
- Minimum h.p.a.: 3.3 overall; 3.3 in chemistry courses.
- Minimum of four credits in independent research (Chemistry 2999 or 5999). Research should be commenced in the junior year (or earlier).
- Completion of one semester of an Honors Program 400-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.
- At least fifteen credits in honors-designated course work, including at least four credits in Chemistry 2999 and 5998; the recommended chemistry honors courses; the Honors Program 400-level seminar; and honors credits in other departments or from the Honors Program.
- 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).
- Presentation of a Public Lecture on the B.A. research. This may be followed by an oral examination by the Honors Subcommittee in Chemistry.
- Chemistry 1310, 1320, 2310, and 2320 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 fifty-five 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 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's degree must complete 120 credits in course work including satisfaction of the University General Education Requirements (see page 26) and the College Group Requirements (see page 387), 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 pages 15-45 and 387-392, respectively.

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:

- Chemistry 1070 (or 1050 or 1310), 1080 (or 1320), 2240 (or 2310), 2260 (or 2320), 2270, 3020, 3120 (or 1320), 5020, 5160, 5420, 5440, 5510, 5550, 5570 and any one of the following: 5600, 6040, 6240, 6440, 6600, 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). 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.

- Physics 2170 and 2180.
- Mathematics 2010, 2020, 2030, and 2250 (or 2350).
- 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 elect Chemistry 1310, 1320, 2310, 2320 in place of designated lower division courses. 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. Such students will also be allowed to register for Chemistry 5999 in the junior year.

Recommended Program

First Year

<i>Fall Semester</i>	<i>Winter Semester</i>		
UGE 1000	1	CHM 1080 (or 1320)	5
CHM 1050 (or 1070 or 1310)4-6		English (2000 level)	3
English 1020	4	Mathematics 2020	4
Mathematics 2010	4	Group Requirement	3
Group Requirement	3	Total: 15	
Total: 16-18			

Second Year

CHM 2240	4	CHM 2260	4
CHM 3120	4	CHM 2270	2
Mathematics 2030	4	CHM 3020	3
Physics 2170	5	Physics 2180	5
Total: 17		Group Requirement	3
		Total: 17	

Third Year

CHM 5420	3	CHM 5440	4
CHM 5550	2	CHM 5570	2
Mathematics 2350 (or 2250) 3		CHM 5160	3
Language I	4	Language II	4
Group Requirement	3	Group Requirement	4
Total: 15		Total: 17	

Fourth Year

CHM 5020	2	Group Requirements	11
CHM 5510	3	Electives	5
CHM 5999	2-4	Total: 16	
Language III	4		
Advanced CHM Course *	3		
Total: 13-15			

* May be taken in the winter semester.

Substitutions in B.S. 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 2250 (or 2350); (2) Chemistry courses numbered 5000 or above except 5160, 5420, 5440, and 5550. 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 1070 (or 1050 or 1310), 1080 (or 1320), 2240 (or 2310), 2260 (or 2320), 2270, 3020, 3120 (or 1320), 5160, 5400, 5510 or 5570 (only one required), 5550, 6600, 6610, 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). 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. Physics 2170 and 2180.
3. Biology 1510, 2200, and 5070 or 6000.
4. Mathematics 2010, 2020, and 2030.
4. 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 elect Chemistry 1310, 1320, 2310, 2320 in place of designated lower division courses. 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. Such students will also be allowed to register for Chemistry 5999 in the junior year.

Recommended Program

First Year

Fall Semester

UGE 1000	1
CHM 1050 (or 1070, 1310)	4-6
English 1020 or 1050	4
Mathematics 2010	4
Group Requirement	3
Total:	16-18

Winter Semester

CHM 1080 or 1320	5
English (2000 level)	3
Mathematics 2020	4
Biology 1510	4
Total:	16

Second Year

CHM 2240 or 2310	4	CHM 2260 or 2320	4
CHM 3120	4	CHM 2270	2
Biology 2200	4	CHM 3020	3
Physics 2170	5	Physics 2180	5
Total:	17	Group Requirement	3
		Total:	17

Third Year

CHM 6600	3	CHM 5400	4
Biology 5070 or 6000	3-4	CHM 5550	2
Mathematics 2030	4	CHM 5160	3
Language I	4	Language II	4
Group Requirement	3	Group Requirement	3
Total:	17-18	Total:	16

Fourth Year

CHM 5998 or 5999	2	CHM 6640	3
CHM 5510 (or yr 3) *	2	CHM 5570 (optional) *	2
Language III	4	CHM 5998 or 5999 (optional)	2
Group Requirements	6	CHM 6610 (or yr 3)	2
Total	14	Group Requirements	6
		Total	15

— With Honors in Chemistry

1. All regular requirements for the Bachelor of Science in Chemistry degree must be fulfilled (no substitutions).
2. Minimum h.p.a.: 3.0 overall; 3.3 in chemistry courses.
3. Minimum of four credits must be earned in independent research (Chemistry 2999, 5998); this should be commenced in the junior year (or earlier).
4. Completion of one semester of an Honors Program 4000-level seminar (consult the 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. Presentation of a Public Lecture on the B.S. research. This may be followed by an oral examination by the Honors Subcommittee in Chemistry.
7. Chemistry 1310, 1320, 2310, and 2320 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 1070 (or 1050), 1080, 2240, 2260, 2270, and at least nine additional credits earned at Wayne State University in Chemistry courses numbered above 3000 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, 3120, 5020, 5160, 5400, 5420, 5440, 5600, 6440, or 6620. Qualified students may substitute Chemistry 1310 and 1320 for Chemistry 1070, 1080, and 3120.

Financial Aid

Also see Office of Scholarships and Financial Aid, page 21.

George H. Wheatley Scholarship: Award open to full-time undergraduate or graduate students majoring in chemistry with a minimum 3.0 h.p.a. Application deadline is April 30; contact the Office of Scholarships and Financial Aid.

* If Chemistry 5510 is taken in the third year, Chemistry 5570 may be taken in the Fall Semester of the fourth year, but only one of these courses is required.

UNDERGRADUATE COURSES (CHM)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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. The unused portion of breakage fees is refundable; 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. (Lct: 3; Lab: 3). Cr. 3–4

Meets General Education Laboratory Requirement when elected for 4 credits. If elected for 4 credits, fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Facts and theories from analytical, inorganic, organic, and physical chemistry, and from biochemistry; their consequences in life processes and the environment. (F,W)

1020. (PS) General Chemistry I. (Lct: 3; Quz: 1; Lab: 3). Cr. 4
Prereq: intermediate high school algebra recommended. Meets General Education Laboratory Requirement. Fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. 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. (F,W)

1030. General Chemistry II. (Lct: 3; Quz: 1; Lab: 3). Cr. 4
Prereq: CHM 1020. All fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of*

Classes. Breakage fee as indicated in *Schedule of Classes*. 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. (W,S)

1050. (PS) Introductory Principles of Chemistry. (Lct: 4; Quz: 2; Lab: 4). Cr. 6

Prereq: intermediate high school algebra. Meets General Education Laboratory Requirement. Fee cards must be obtained from cashier's office before attending first lab. Only three credits after election of CHM 1020. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Principles of chemistry and their applications, atomic and molecular structure, periodicity, states of matter, solutions, chemical bonds, principles of chemical equilibrium. This course is intended for students who have a weak, or no, background in high school chemistry. (T)

1070. (PS) Principles of Chemistry I. (Lct: 3; Quz: 1; Lab: 3). Cr. 4

Prereq: completion of one year of high school chemistry; high school algebra; satisfactory score on qualifying examination in high school chemistry. Meets General Education Laboratory Requirement. Fee cards must be obtained from cashier's office before attending first lab. Only 2 credits after CHM 1020; no credit after CHM 1050. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Principles of chemistry and their applications, atomic and molecular structure, states of matter, periodicity, solutions, chemical bonds, principles of chemical equilibrium, and thermochemistry. (F,W)

1080. Principles of Chemistry II. (Lct: 3; Quz: 1; Lab: 4). Cr. 5
Only four credits applicable toward degree if elected after CHM 1310. Prereq: CHM 1050 or 1070 or equiv. All fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Acids and bases; chemical equilibria, especially those of acid–base, oxidation–reduction, complex formation, and precipitation reactions in aqueous solution; properties and reactions of inorganic substances; qualitative analysis of common inorganic ions; chemical thermodynamics and kinetics; electrochemistry; nuclear chemistry. (T)

1110. Practical Chemistry I. Cr. 2

Prereq: approval of Departmental Curriculum Committee. Open only to students in Focus Hope Program. Introduction to measurement, chemical reactions, periodic table, acid–based, oxidation–reduction, bonding. (Y)

1120. Practical Chemistry II. Cr. 2

Prereq: CHM 1110 and approval of Departmental Curriculum Committee. Open only to students in Focus Hope Program. Chemical equilibrium, chemical kinetics, properties of materials. (Y)

1170. Principles of Chemistry Workshop I. Cr. 2

Coreq: designated sections of CHM 1070. Offered for S and U grades only. Open only to students in Gateway to Excellence Program. Cooperative learning workshop to accompany CHM 1070 (Y)

1180. Principles of Chemistry Workshop II. Cr. 1

Coreq: designated sections of CHM 1080. Offered for S and U grades only. Open only to students in Gateway to Excellence Program. Cooperative learning workshop to accompany CHM 1080. (Y)

1310. (PS) Chemical Principles and Analysis I.

(Lct: 3; Quz: 1; Lab: 4). Cr. 5
Prereq: one year of high school chemistry and algebra; evidence of superior potential (Merit Scholarship, Honors Program, superior performance on the CHM 1070 Placement Examination or similar criteria). Meets General Education Laboratory Requirement. Fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Brief review of basic chemical principles and atomic and molecular structure; application of chemical

principles in chemical phenomena with emphasis on chemical reactions in the gaseous and liquid states and in solution. The two-semester sequence of CHM 1310 and CHM 1320 covers the material in the three semester sequence CHM 1070, CHM 1080, CHM 3120. (F)

1320. Chemical Principles and Analysis II.

(Lct: 3; Quz: 1; Lab: 4). Cr. 5

Prereq: CHM 1310 or equiv. All fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Continuation of CHM 1310. Qualitative and quantitative determination of selected elements in chemical samples. Chemical equilibrium concepts and calculations. (W)

2240. Organic Chemistry I. (Lct: 3; Quz: 1; or Lct: 4). Cr. 4

Prereq: CHM 1080 or 1320 or equiv. The sequence CHM 2240, CHM 2260, and CHM 2270 meets requirements for premedical, pre dental, pharmacy and chemical engineering students. Required for chemistry majors. Structure, stereochemistry, and physical properties of all important classes of organic compounds. Introduction to organic spectroscopy. Reaction intermediates. (T)

2260. Organic Chemistry II. (Lct: 3; Quz: 1; or Lct: 4). Cr. 4

Prereq: CHM 2240 or equiv. Continuation of CHM 2240. Reactions of aliphatic and aromatic compounds. Reaction mechanisms; multi-step syntheses; heterocyclic compounds, amino acids, proteins, carbohydrates, nucleic acids. (T)

2270. Organic Chemistry Laboratory. (Lct: 1; Lab: 5). Cr. 2

Prereq. or coreq: CHM 2260 or 2320 or equiv. All fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Experiments to familiarize students with important laboratory techniques, with methods of identifying organic compounds, with reactions of important classes of aliphatic and aromatic compounds, and with the scope and limitations of organic syntheses. (T)

2310. Organic Structure and Reactions. (Lct: 4). Cr. 4

Prereq: CHM 1320 or superior performance in 1080. No credit after CHM 2240. Structure, stereochemistry, and reactions of organic compounds. The two semester sequence of CHM 2310 and CHM 2320 covers all of the material in CHM 2240 and CHM 2260. This sequence is recommended for all chemistry majors and honors students. (F)

2320. Organic Synthesis and Spectroscopy. (Lct: 4). Cr. 4

Prereq: CHM 2310; coreq: 3020. No credit after CHM 2260. Continuation of CHM 2310. Synthesis and reactions of organic compounds. Introduction to spectroscopic methods in organic chemistry. (W)

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. (Lct: 3). Cr. 3

Prereq: CHM 2240 or equiv. Emphasizes chemistry of the main group elements and includes basic coordination chemistry of the transition metals. (W,S)

3120. Analytical Chemistry. (Lct: 3; Lab: 4). Cr. 4

Prereq: CHM 1080 or equiv. No credit after CHM 1320. All fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Theoretical and practical aspects of elementary quantitative determinations involving chemical methods and elementary instrumentation. Equilibrium calculations and statistics. (F,S)

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 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 1320 or 3120, and 5400 or 5420 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. (W)

5400. Biological Physical Chemistry. Cr. 4

Prereq: CHM 1080 or 1320 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 1080 or 1320, 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,W)

5440. Physical Chemistry II. Cr. 4

Prereq: CHM 1080 or 1320, MAT 2020 or equiv.; prereq. or coreq: 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 2260 and 2270 or equiv. All fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Advanced techniques for the synthesis, purification and characterization of organic compounds. (F)

5550. (W) Physical Chemistry Laboratory. Cr. 2

Prereq. or coreq: CHM 5400 or 5420 or 5440 or equiv., and PHY 2180 or equiv. All fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Principles of measurement. Fundamental investigations of thermodynamics. Fundamental spectroscopic and kinetic measurements. (F,W)

5570. Instrumental Analytical Chemistry Laboratory. Cr. 2

Prereq. or coreq: CHM 5160 or equiv. All fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. Fundamentals of electronics and instrumentation. Principles and analytical applications of electrochemistry, chromatography, and spectrometry including UV-visible, IR, magnetic resonance, and mass spectrometry. (W)

5600. Survey of Biochemistry. Cr. 3

Prereq: CHM 2240 or equiv. Protein structure and its relationship to function. Principles of enzyme catalysis. Allosteric regulation of protein function and enzyme catalysis. Pathways of carbohydrate, fat, and protein metabolism in eukaryotic organisms. Introduction to mechanisms of energy coupling and photosynthesis. Information transfer in living systems. Molecular biology. (W)

5740. Topics in Chemistry for High School Chemistry Teachers. Cr. 1-6(Max. 20)

Topics include: principles of chemistry; descriptive chemistry; inorganic, organic, analytical, physical chemistry; biochemistry. Topics to be announced in *Schedule of Classes*. (I)

5998. Honors Thesis Research in Chemistry. Cr. 2-4(Max. 8)
Prereq: consent of chairperson. Open only to students in College Honors Program; elect no later than first senior semester. Original investigations under direction of senior staff member. (Y)

5999. Senior Research in Chemistry. Cr. 2-4(Max. 8)
Prereq: consent of chairperson. Must be elected by B.S. chemistry majors no later than first semester of senior year. Original investigation under the direction of a senior staff member. (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. (F)

6240. Organic Spectroscopy. (CHM 7240). Cr. 3
Prereq: CHM 2260 or 2320, and 1320 or 3120. 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 2260 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. (Y)

6440. Computational Chemistry. (CHM 7440). Cr. 3
Prereq: CHM 5440 or equiv. All fee cards must be obtained from cashier's office before attending first lab. Material fee as indicated in *Schedule of Classes*. Aspects of computational chemistry pertinent to effective use of molecular modeling techniques. Molecular mechanics, semi-empirical and ab initio calculations, molecular dynamics. (W)

6600. Structure and Function of Biomolecules. (CHM 7600). Cr. 3
Prereq: CHM 2240 or 2310 or equiv. Introduction to the structure and function of macromolecules of biological importance. Emphasis on bioenergetics, nucleic acid and protein structure and chemical reactivities, enzyme catalysis, enzyme kinetics, carbohydrate and lipid structure and function, and membrane structure. (F)

6610. Biological Chemistry Laboratory. Cr. 3
Prereq: CHM 6600 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 6600 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 6600 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)

6720. Chemical Information Sources and Services. Cr. 1
Material fee as indicated in *Schedule of Classes*. Techniques for locating chemical information in the major sources including Chemical Abstracts and major handbooks and treatises. Development of search strategies for both printed and machine-readable sources of chemical information. (Y)

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. Material fee as indicated in *Schedule of Classes*. Introduction to the fundamentals of glassblowing as applied to the repair and fabrication of scientific equipment in the research laboratory. (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
 Chairperson: William Grosky
 Administrative Assistant: Judith Lechvar

Professors

Michael Conrad, Narendra Goel, William Grosky, Alexis Manaster-Ramer,
 Vaclav Rajlich, Ishwar Sethi

Associate Professors

Anthony Chronopoulos, Farshad Fotouhi, Robert Reynolds, Nai-Kuan
 Tsao, Seymour J. Wolfson

Assistant Professor

Lucja Iwanska

Lecturer

Richard Weinand

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

**MASTER OF ARTS with a Major in Computer Science*

**MASTER OF SCIENCE with a Major in Computer Science*

**MASTER OF SCIENCE in Electronics and Computer Control
 Systems — Interdisciplinary*

**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 stressed 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 414.

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 complete. Students should check often 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.

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.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

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 departmental adviser. The department reserves the right of final determination of course equivalency.

Major course sequence outlines are available in the department for guidance in meeting degree requirements.

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 428.) CSC 1010 is required for students planning to continue in computer science. CSC 1000 is for non-major students who desire to learn BASIC; students who intend to major or minor in computer science will not normally take this course. CSC 1120 is primarily intended for engineering students. *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 26) and the College Group Requirements (see page 387). All course work must be completed in accordance with the regulations of the University governing undergraduate scholarship and degrees; see page 15-45 and 387-392, respectively.

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:

1. Mathematics 2010, 2020, 2210, and 2250.
2. Computer Science course work as follows:
 - (a) Computer Science 1010, 1100, 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 1010, 1100, and 2110.

Students declaring their major must consult an adviser for a written assessment of current requirements.

Recommended Program

First Year	
Fall Semester	Winter Semester
CSC 1010 (CL) 3	CSC 1100 (CL) 4
UGE 1000 (GE) 1	ENG 2000-3000 level** . . . 3
ENG 1020 (BC) 4	MAT 2020 4
MAT 2010 4	(CT) course** 3
(OC) course** 3	Total: 14
Total: 15	

** Some General Education competency and group requirement courses may be four credits.

Second Year

CSC 2110 (CL) 4	CSC 2200 4
MAT 2210 4	MAT 2250 4
Group Requirement* 3	Group Requirement* 3
Group Requirement* 3	Group Requirement* 3
Total: 14	Total: 17

Third Year

CSC 3200 3	CSC 4110 3
CSC 4100 4	CSC 4420 3
Group Requirement* 3	CSC (3000-level or above) 3
Group Requirement* 3	Group Requirement* 3
Group Requirement* 3	Group Requirement* 3
Total: 16	Total: 15

Fourth Year

CSC 4500 3	CSC 4996 (WI) 2
CSC (3000-level or above) 3	CSC (3000-level or above) 3
CSC (3000-level or above) 3	Group Requirement* 3
Group Requirement* 3	Group Requirement* 3
Elective 3	Elective 3
Total: 15	Total: 15

Minimum number of credits required for the degree: 120

— 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 in Computer Science degree. A cumulative honor 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 computer science a 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 411.

DEGREE REQUIREMENTS: See page 411.

COURSE REQUIREMENTS:

1. See step 1 of 'Bachelor of Science in Computer Science,' above.
2. See step 2 of 'Bachelor of Science in Computer Science,' above.
3. One semester of an Honors Program 4000 level seminar.
4. Computer Science 4999, Honors Thesis; three or six credits.

The Honors Thesis is a paper presenting the results of the student's independent research. The length of the thesis may vary according to the nature of the topic and method of approach. Registration for Honors Thesis must be made a minimum of two semesters prior to the student's expected graduation date. A minimum of two semesters should be allowed for completion of all of the thesis requirements. It is expected that the Honors Thesis will conform to the University master's thesis format (copies available from the Graduate School).

The student will be assigned a faculty adviser to guide and direct the research, based upon the student's area of interest. A grade is awarded for CSC 4999 after approval by two faculty advisers.

5. An overall Wayne State University cumulative honor point average of at least 3.3.

* Some General Education competency and group requirement courses may be four credits.

6. A minimum total of fifteen credits in honors-designated course work, including Computer Science 4999, and the Honors Seminar listed above. For information about additional honors-designated course work available each semester, see the University *Schedule of Classes* under 'Honors Program,' or contact the Director of the Honors Program (577-3030).

Bachelor of Arts with a Major in Computer Science

The Bachelor of Arts curriculum is designed to provide a strong academic foundation for those preparing a career in computer applications. Students planning to earn a graduate degree in computer science are strongly advised to seek the Bachelor of Science degree in computer science.

Admission Requirements: See page 411.

DEGREE REQUIREMENTS: See page 411.

COURSE REQUIREMENTS:

1. Mathematics 2010, 2020, and 2210.
2. Computer Science course work as follows:
 - (a) Computer Science 1010, 1100, 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 1010, 1100, and 2110.

Students declaring their major should consult an adviser for a written assessment of current requirements.

Recommended Program

First Year	
Fall Semester	Winter Semester
CSC 1010 (CL) 3	CSC 1100 (CL) 4
UGE 1000 (GE) 1	ENG 2000-3000 level* 3
ENG 1020 (BC) 4	MAT 2020 4
MAT 2010 4	(CT) course* 3
(OC) course* 3	Total: 14
Total: 15	

Second Year	
CSC 2110 (CL) 4	CSC 2200 4
MAT 2210 4	Group Requirement* 3
Group Requirement* 3	Group Requirement* 3
Group Requirement* 3	Group Requirement* 3
Total: 14	Group Requirement* 3
	Total: 16

Third Year	
CSC 3200 3	CSC 4110 3
CSC 4100 4	CSC 4420 3
Group Requirement* 3	CSC (3000-level or above) 3
Group Requirement* 3	Group Requirement* 3
Group Requirement* 3	Group Requirement* 3
Total: 16	Total: 15

Fourth Year	
CSC (3000-level or above) 3	CSC 4996 (WI) 2
CSC (3000-level or above) 3	CSC (3000-level or above) 3
Group Requirement* 3	Group Requirement* 3
Elective 4	Elective 3
Elective 3	Elective 3
Total: 16	Total: 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. Coursework 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 411.

DEGREE REQUIREMENTS: See page 411.

COURSE REQUIREMENTS:

1. Mathematics 2010, 2020, and 2210.
2. Computer Science 1010, 1100, 1140, 2110, 2200, 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 to the applied area. The applied area 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 1010, 1100, and 2110.

Students declaring their major should consult an adviser for a written assessment of current requirements.

Recommended Program

First Year

Fall Semester

CSC 1010 (CL).....	3
UGE 1000 (GE).....	1
ENG 1020 (BC).....	4
MAT 2010.....	4
(OC) course*.....	3
Total:	15

Winter Semester

CSC 1100 (CL).....	4
ENG 2000-3000 level*	3
MAT 2020.....	4
(CT) course*.....	3
Total:	14

Second Year

CSC 1140 (CL).....	3	CSC 2100.....	4
MAT 2210.....	4	Group Requirement*.....	3
Group Requirement*.....	3	Group Requirement*.....	3
Group Requirement*.....	3	Group Requirement*.....	3
Total:	13	Group Requirement*.....	3
		Total:	16

Third Year

CSC 2200.....	4	CSC 4110.....	3
CSC 4100.....	4	CSC 4420.....	3
Group Requirement*.....	3	CSC (3000-level or above).....	3
Group Requirement*.....	3	Group Requirement*.....	3
Group Requirement*.....	3	Group Requirement*.....	3
Total:	17	Total:	15

Fourth Year

CSC 4710.....	3	CSC 4996 (WI).....	2
CSC (3000-level or above).....	3	CSC (3000-level or above).....	3
CSC (3000-level or above).....	3	Group Requirement*.....	3
Group Requirement*.....	3	Elective.....	4
Elective.....	3	Elective.....	3
Total:	15	Total:	15

Minimum number of credits required for the degree: 120

Work-Study Cooperative Program

Students who wish to enrich their education with practical computer science experience may enroll in the Cooperative Program. In this program, full-time study terms are alternated with full-time work assignments in cooperating industries. The Co-op experience provides two benefits: industrial work experience which can be included in a resume, and the possibility of being offered a full-time position with the co-op employer, upon graduation. Usually students enter the program in either their junior or senior 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 a student is on a work assignment he/she must enroll the following term in Computer Science 4995, Professional Practice in Computer Science. A 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 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 University Placement Services.

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:

1. Mathematics 2010, 2020, and 2210.
2. Computer Science course work as follows:
 - (a) Computer Science 1010, 1100, 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 1010, 1100, and 2110.

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.

* Some General Education competency and group requirement courses may be four credits.

'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 are completed. Following Departmental Graduate Committee approval, students must seek the approval of the Graduate Officer of the College. Applicants must have an overall honor point average (h.p.a.) at the 'cum laude' level (approximately 3.4) and not less than a 3.6 h.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 '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 387) 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.

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 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 an honor point average of at least 2.0 from an accredited institution.
2. Mathematics 2010, 2020, and 2210.
3. Computer Science course work as follows:
 - (a) Computer Science 1010, 1100, 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 an h.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.

Facilities

The Department of Computer Science currently has nine laboratories; a tenth is scheduled to open during the winter 1997 semester. Seven labs are dedicated to research and are organized by focus: artificial intelligence, biocomputing, computer graphics and animation, multimedia information systems, research (general), software engineering, and vision and neural networks. The remaining three labs are instructional labs, used primarily by students for classwork and general computing. One of the instructional labs is equipped with 40 Sun SPARCstations and is used by graduate and upper-division undergraduates. The other lab is equipped with 32 100 MHz Pentium computers and is used primarily for undergraduate instruction. The new lab will contain 32 166 MHz Pentium computers.

The Computer Science Department LAN is a switched-Ethernet star. The arms of the star are all 10 Mbps Ethernet, with a single 100 Mbps 'fat pipe' to the servers.

The Undergraduate Instructional Laboratory is available to undergraduate students both for class projects and for instructor-led discussion classes. This laboratory is equipped with thirty-two Intel 100 MHz Pentium computers connected by a 10 Mbps Ethernet running Novell Netware. Central file storage is provided by a 50 MHz 486 server. The Laboratory also has a video projector and screen to allow the instructor to display the exercise under discussion in real time as students follow along at their own workstations. The Laboratory also is equipped with a 386 laptop so that the projector may be taken to other classrooms and used to give on-line demonstrations.

The Computer Science Graduate Laboratory is available to graduate students for course work and for research projects. The laboratory is equipped with forty SPARCstations with 16 MB of RAM and 207 MB of disk storage. User files reside on a Sun fileserver, and a SPARCserver 5. Other servers include a SPARC 10/51 and a dual-processor SPARC 20/712. The servers provide about 60 GB of disk storage. Lab software includes Mathematica, FrameMaker, Lucid Common Lisp, Oracle, Sybase, Powerbuilder, C, and C++.

The Artificial Intelligence Laboratory supports research in both theoretical and applied artificial intelligence. Current areas of theoretical interest include machine learning, genetic algorithms, constraint satisfaction algorithms, constraint satisfaction heuristics, distributed artificial intelligence, and knowledge-based systems. Current areas of applied work include software engineering design, applied physics, and archaeological site analysis.

The laboratory is equipped with a network of high-performance Lisp machines and microcomputers. Software for these machines includes Lisp, Prolog, and various knowledge-based system shells and libraries.

The Biocomputing Laboratory supports simulation studies of biological information processing systems, development of adaptive programs that utilize biological information processing principles and emulation studies of biological-like computer structures that could be implemented with special-purpose hardware or with new molecular materials. Current areas of research include artificial brain/neuromolecular computer design, evolutionary programming, evolutionary ecosystem modeling, and information processing in the immune system.

The laboratory is equipped with a VAXstation 3500 workstation, and DECstation 5000/200PXG accelerated graphics workstation, a dual-processor SPARC 20/712, and a 120 MHz Pentium computer. The DECstation supports the AVS scientific visualization system.

The Computer Graphics and Animation Laboratory supports research in areas related to high performance computer graphics and animation. Current areas of research include biological simulation using Lindenmayer systems and analysis and interpretation of remote sensing data. The laboratory is equipped with six SPARCstation 10 workstations and two PCs. The lab also has a specialized video system to facilitate the capture and display of graphics images and the production of animation video tapes.

The Multimedia Information Systems Laboratory supports research in the area of databases and multimedia information systems. Current areas of research include hypermedia systems, indexing multimedia information, virtual reality interfaces to databases, and virtual reality-based neurosurgical operation planning systems.

The laboratory has an extensive library of database-related journals and conference proceedings and is equipped with two SPARCstations, two Power Macintosh computers, a Macintosh Quadra, a 120 MHz Pentium computer, and a color scanner. The laboratory's software includes Sybase and the object-oriented database ObjectStore.

The Computer Science Research Laboratory supports research in areas not supported by the other research laboratories. It currently contains an SGI Indigo Extreme and a Maspar 1200 massively parallel machine.

The Software Engineering Laboratory supports research in the areas of program comprehension, lower CASE tools for software maintenance, and methodologies and tools for object-oriented program development. The laboratory contains a SPARC 10/41, four Sun SPARCstation IPX color workstations, and a number of personal computers.

The Vision and Neural Networks Laboratory supports research that seeks to combine traditional pattern recognition and image analysis techniques with the rapidly-growing artificial neural network and fuzzy logic approaches to solve a variety of problems that relate to building intelligent sensory data interpretation systems.

The laboratory is equipped with a variety of specialized equipment, including video cameras and recorders, image processing systems, including a Datacube MaxVideo-20 hosted on a SPARCstation 2, a SPARC 5, and a 133 MHz Pentium.

The University's Computing Services Center currently has three large IBM and Amdahl computers which support the Department's instructional needs. The University is a participant in the MichNet regional network, operated by Merit Network, Inc., as well as in commercial networks such as Ameritech, SprintNet, and Autonet, which permit communication throughout the United States, Canada, and much of the rest of the world.

Students have access to the University's computing facilities through two main computer laboratories located in the Student Center and the basement of the Science Library. The computing facilities are readily accessible through the public telephone networks.

Web Page: The Department maintains a home page at <http://www.cs.wayne.edu/>

Financial Aid

Also see Office of Scholarships and Financial Aid, page 21.

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 h.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 h.p.a., be a U.S. citizen, and demonstrate financial need. Application deadline is April 30; contact the Office of Scholarships and Financial Aid.

UNDERGRADUATE COURSES (CSC)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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, databases, and telecommunications. (T)

1010. (CL) Fundamentals of Computer Science. Cr. 3

Prereq: placement out of MAT 0995. For computer science majors only. History of computing; computer applications: word processors, spreadsheets; system design; introduction to programming; program translation; hardware components; Boolean algebra; artificial intelligence; computers and society. (T)

1050. (CL) Introduction to C and Unix. Cr. 2

Prereq: MAT 1800. Student computer account required. 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)

1090. Computers and Mankind. Cr. 2–3

Offered for two credits to lecture students; offered for three credits to students electing lecture and laboratory. Not for computer science majors. Material fee as indicated in *Schedule of Classes*. Basic concepts of computing including organization capability, control of computers, their use in the management of information, and the study of complex processes through simulation; application in various areas of government, industry, education and the arts; future direction of computing; and the impact of computers on society. (I)

1100. (CL) Problem Solving and Programming. Cr. 4

Prereq: placement out of MAT 1800 and CSC 1010. 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 repetition control structures; modularity and procedural abstraction using functions with parameters; structured data types array and string. (T)

1120. Introduction to FORTRAN. Cr. 3

Prereq: MAT 1800 and CSC 1000 or CSC 1010. Problem solving; problem formulation, analysis and design of algorithms; data representation: use of flow charts and the FORTRAN programming language in implementing algorithms. (Y)

1140. (CL) Introduction to COBOL. Cr. 3

Prereq: CSC 1000 or 1010. 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. (Y)

2000. Introduction to C++ Programming Language. Cr. 3

Prereq: MAT 1800 and CSC 1000 or CSC 1010. 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 2010. 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 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 2110 or 5050. Student computer account required. Data representation; assembly language programming: addressing, subroutine and parameters, input/output programming, interrupts and direct memory access; linkers and loaders. (T)

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. (Y)

3400. Human-Computer Communication. Cr. 3

Prereq: CSC 2200. Material fee as indicated in *Schedule of Classes*. Devices, user interfaces, menu systems, command languages, features of common interface toolkits, window programming, hypertext systems, fundamentals of computer graphics. (Y)

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. Material fee as indicated in *Schedule of Classes*. Software life cycle; software requirement analysis; software system design; software implementation and testing; software maintenance; team programming; ethics and programmers. (T)

4300. Numerical and Symbolic Computing. Cr. 3

Prereq: CSC 4100. Introduction to the main concerns of mathematical and scientific programming; detection and control of errors in computer arithmetic; iterative approximation methods; overview of applications in the sciences and engineering. (Y)

4420. Computer Operating Systems. Cr. 3

Prereq: CSC 4100. Offered for undergraduate major credit only. Operating system services; file systems; CPU scheduling; memory management; virtual memory; disk scheduling; deadlocks; concurrent processes. (T)

4430. Parallel Programming. Cr. 3

Prereq: CSC 4420. Hardware and operating system models; process, shared memory, and simple parallel programs; basic parallel programming techniques; barriers, and race conditions; scheduling nested loops and data dependencies; discrete event, discrete time simulation; semaphores and events. (Y)

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. (Y)

4990. Directed Study. Cr. 1-4(Max. 8)

Not for graduate credit. Individual study as agreed on by student and supervising faculty. Primarily for material not covered in regular courses. (T)

4992. Special Topics in Computer Science. Cr. 1-3(Max. 6)

Prereq: junior or senior standing. Topics to be announced in *Schedule of Classes*. (T)

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. Selected topics from: artificial intelligence; software engineering; databases; distributed and parallel computing; computer vision and robotics; natural computing; computer graphics. (Y)

4999. Honors Thesis. Cr. 3 or 6(3 req.)

Prereq: senior standing. Offered for 6 credits with consent of thesis adviser and undergraduate committee. Student computer account required. Independent study under supervision. (T)

5050. Algorithms and Data Structures. Cr. 4

Prereq: graduate standing. 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)

5260. Computer Networks and Distributed Systems. Cr. 3

Prereq: CSC 4420. Introduction to the topic; data communications protocols; local area networks; distributed applications. (Y)

5680. Introduction to Modeling and Simulation. (I E 5180). Cr. 3

Prereq: CSC 2110 or 5050 and MAT 2210. Review of statistics; queuing analysis; categories of models; general purpose simulation languages; model validation; experimental design; output analysis. (I)

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)

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. (Y)

5830. Computational Modeling of Complex Systems. Cr. 3

Prereq: knowledge of a programming language; MAT 2010. Computer methods useful for modeling complex systems which are refractory to traditional methods of analysis. Problem formulation and concrete examples, examples 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. (I)

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. (B)

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. Cr. 3

Prereq: CSC 2200, 4100. Parallel computing concepts, examples of parallel computers, parallelism in algorithms/data/programs, experiences with state of the art parallel computers. (Y)

6240. Program Correctness and Problem Specification. Cr. 3

Prereq: CSC 5200. Problem and data specification; predicate and proposition logic, axiomatic theory and its model; many sorted algebras, data types and data abstraction; partial and total correctness (Floyd, Hoare, Dijkstra's proving schemes); structured induction correctness of concurrent program; problem solving and programming methodology. (I)

6260. Distributed Systems I. Cr. 3

Prereq: CSC 4420. Introduction to distributed systems; distributed systems architecture and design goals; interprocess communication and synchronization; concurrent programming with threads; client-server programming (with Berkeley sockets); distributed applications development using remote procedure calls. (Y)

6280. Advanced Operating Systems. (ECE 5640). Cr. 4

Prereq: CSC 4420 or graduate standing. Design issues in advanced operating systems; distributed real-time operating systems; discussion of case studies such as UNIX, MACH, and AMOEBA. (Y)

6500. Theory of Languages and Automata. Cr. 3

Prereq: graduate standing. Finite-state, context-free, context-sensitive, recursive, and r.e. languages; Chomsky hierarchy; grammars and automata; decidability and computability; Rice's theorem; basic complexity theory. (Y)

6580. Design and Analysis of Algorithms. Cr. 3

Prereq: CSC 2200. Best case, worst case, and expected case complexity analysis; asymptotic approximations; solutions of recurrence equations; probabilistic techniques; divide-and-conquer; the greedy approach; dynamic programming; branch and bound; NP-completeness; parallel algorithms. (I)

6620. Matrix Computation I. (ECE 5020). Cr. 4

Prereq: CSC 2110, 2060, or equiv.; and MAT 2250 for computer science students, 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. (B)

6710. Database Management Systems I. Cr. 3

Prereq: CSC 2200 or 5050. Data models; entity-relationship, relational, object-oriented; query languages; relational database design; physical data organization; query processing. (Y)

6800. Artificial Intelligence I. Cr. 3

Prereq: CSC 5800 or 3200. Basic concepts; recursive problem solving, knowledge representation using semantic networks and frames, state space search methods, planning and problem solving, game playing and adversarial search methods, rules and production systems (RETE networks), constraint satisfaction techniques and applications, optimization algorithms including genetic algorithms, logic programming. Implementation in Lisp and Prolog. (Y)

6830. Computational Modeling Laboratory. Cr. 3

CSC 5830 or consent of instructor. Practical experience in the implementation and documentation of computer models. (I)

6860. Digital Image Processing and Analysis. Cr. 3

Prereq: graduate standing. Review of image formation and acquisition; image transformation; image enhancement and restoration; image compression; morphological image processing; edge detection and segmentation; architecture for image processing. (Y)

6870. Computer Graphics II. Cr. 3

Prereq: CSC 5870. Material fee as indicated in *Schedule of Classes*. Representing curves and surfaces; solid modeling; fractal geometry; camera models; illumination models; ray tracing; radiosity methods; transparency; texture; graphics packages. (Y)

6880. Theory of Adaptable Systems. Cr. 3

Prereq: senior or graduate standing. Formalism of adaptability theory; organization of biological and technical information processing systems in the light of adaptability theory; applications to biological computing and evolutionary programming (I)

6991. Topics in Computer Science. Cr. 1-4(Max. 8)

Prereq: senior or graduate standing. Current topics to be announced in *Schedule of Classes*. (I)

GEOLOGY

Office: 130 Administrative Services Building II; 577-2506

Chairperson: Robert B. Furlong

Professors

Robert B. Furlong, Willard H. Parson (Emeritus), Luciano B. Ronca (Emeritus)

Visiting Professor

Frederick E. Simms

Associate Professor

Jeffrey L. Howard

Adjunct Associate Professor

Robert E. Mosher

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 387) and the University General Education Requirements (see page 26), 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 pages 15-45 and 387-392, respectively.

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, 5000, and 5300.
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 calculus (Mathematics 2010 and 2020 or equivalent), a year of chemistry (or the equivalent of Chemistry 1080) and a year of physics. The courses in chemistry should include Chemistry 1050 for the student without high school chemistry, followed by Chemistry 1080. For the student with some knowledge of chemistry, the Chemistry 1070 and 1080 sequence is satisfactory. It is recommended that the courses in physics include Physics 2170 and 2180 (both of these courses require introductory calculus). For those students who will not be able to complete introductory calculus prior to taking physics, Physics 2130 and 2140 will be acceptable.

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 387) and the University General Education Requirements (see page 26), 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 pages 15-45 and 387-392, respectively.

Major Requirements: Students must complete twenty-six credits in geology beyond Geology 1020. These must include Geology 2130, 3160, 3300, 3400, 5300, 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.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

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 honor 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).

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, 1050, and 1370 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.

UNDERGRADUATE COURSES (GEL)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above,

enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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. Material fee as indicated in *Schedule of Classes*. 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. (T)

1020. Interpreting the Earth. Cr. 4

Prereq: GEL 1010 with a grade of C or better. Sedimentary rocks, sedimentary structures and fossils as tools for interpreting the history of the earth. Paleogeology of the geologic past and the structure of the earth are emphasized. (T)

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. (I)

2130. Mineralogy. Cr. 4

Prereq: one course in high school or college chemistry. Material fee as indicated in *Schedule of Classes*. 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. (F)

3160. Petrology. Cr. 4

Prereq: GEL 1020 and 2130. Material fee as indicated in *Schedule of Classes*. Origin, occurrence, alterations, classification, methods for determination of important rocks based on megascopic and microscopic characteristics. (W)

3300. Structural Geology. Cr. 4

Prereq: GEL 1020 and high school trigonometry or equiv. Material fee as indicated in *Schedule of Classes*. Description and interpretation of features which result from the origin or deformation of rock masses. (F)

3400. Principles of Sedimentology and Stratigraphy. Cr. 4

Prereq: GEL 1020, 2130 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Processes which produce sediments, environments of deposition, changes after deposition. Relationship between tectonics and sedimentation. Origin of sedimentary strata. Facies and correlations. (W)

3990. Directed Study. Cr. 2-6(Max. 10)

Prereq: consent of instructor, adviser, and chairperson. Primarily for honors students. (T)

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. 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)

5120. Environmental Geochemistry. Cr. 4

Prereq: GEL 1010 and two semesters of college chemistry or equiv. Material fee as indicated in *Schedule of Classes*. Survey of some geochemical interactions which take place in Earth environments (water, soils, atmosphere) brought about by natural and human-induced chemical processes. (W)

5150. Soils and Soil Pollution. Cr. 4

Prereq: GEL 1010, CHM 1070, CHM 1080. Physical, chemical and mineralogical properties and classification of soils. Behavior of pollutants in soils and methods for reclamation. (Y)

5300. Statistical and Computer Methods in Environmental Geology. Cr. 4

Prereq: consent of instructor. Student computer account required. Principles of statistics, probability and computer programming; application to the geological sciences; sampling procedures, population, confidence limits, regressions, correlations and time series, practical applications to geological problems. (B)

5450. Hydrogeology. Cr. 4

Prereq: GEL 1010. 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)

HONORS PROGRAM

Office: 2311 Faculty/Administration Building; 577-3030

Director: Stanley Shapiro

Adviser: Karen M. Gurney, 2136 Helen Newberry Joy Student Services Center; 577-2680

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 full-time members of the regular faculty.

Eligibility: To enroll in honors courses, students must have at least a 3.0 cumulative honor point average at Wayne State University. Entering freshmen should have a high school honor point average of at least 3.5, and students transferring from a community college a 3.3 h.p.a. Continuing students with a 3.3 h.p.a. or better for twenty-four successive credits are also eligible to enter the Honors Program. No application procedure is necessary to take honors courses. Students may take as few 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 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 26).

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 fifteen credits in honors-designated course work, including (2) a senior essay or thesis done in the student's major department, and (3) at least one 4200-level seminar offered through the Honors Program (HON 4200-4280). An h.p.a. of 3.3 (higher in some departments) is required for graduation as well. Any honors-designated course work may be included in the fifteen honors credits.

Students pursuing a degree with *University Honors* will follow a course of study consisting of (1) at least thirty credits in honors-designated course work, including (2) a senior thesis or essay, and (3) one 4200-level seminar offered by the Honors Program (HON 4200-4280). An h.p.a. of 3.3 or higher is required for graduation. Any honors designated course work may be included in the thirty honors credits.

A student who satisfactorily completes a Departmental Honors curriculum or the University Honors Program 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), and the opportunity to participate in honors student groups.

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*. Departmental honors thesis or essay courses are listed only under the respective departmental headings in this Bulletin and the *Schedule of Classes*. For a description of the following courses, see the appropriate Departmental sections of this Bulletin.

ANT 3110	Detroit Area Minorities: Arabs, Hispanics, and African Americans
ANT 4990	Honors Program in Anthropology
ANT 4998	Honors Research Thesis
ANT 4999	Honors Thesis
A H 1120	(VP) Renaissance through Modern Art Survey
BIO 1030	(LS) Environmental Biology
BIO 1050	(LS) An Introduction to Life
BIO 1500	Basic Biology
BIO 1510	(LS) Basic Life Mechanisms
BIO 6990	Honors Directed Study in Biology
BIO 6997	Senior Seminar: Honors Program
BIO 6999	Terminal Essay: Honors Program
CHM 1310	(PS) Chemical Principles and Analysis I
CHM 1320	Chemical Principles and Analysis II
CHM 2310	Organic Structure and Reactions
CHM 2320	Organic Synthesis and Spectroscopy
CHM 5998	Honors Thesis Research in Chemistry
CLA 2000	Greek Mythology
CLA 2100	(PL) Honors Classical Origins of Western Thought
CRJ 4998	Honors Thesis in Criminal Justice
CSC 4999	Honors Thesis
ECO 2010	(SS) Principles of Microeconomics
ECO 2020	(SS) Principles of Macroeconomics
ECO 4997	Senior Honors Seminar
ENG 1050	(BC) Freshman Honors: English I
ENG 2050	(IC) Freshman Honors: English II
EBG 4990	Directed Study: Honors Program
ENG 4991	Honors Seminar
ENG 4992	Honors Project
FRE 2700	(PL) Anguish and Commitment: European Existentialist Literature
GER 2700	(PL) Anguish and Commitment: European Existentialist Literature
GPH 4990	Directed Study: Honors Program
HIS 1300	(HS) Europe and the World: 1500-1945
HIS 1400	(HS) The World Since 1945
HIS 5995	Honors Seminar
HUM 2200	(PL) Sophomore Honors Colloquium in Humanities
HUM 2220	(PL) Constructs of Human Experience: Histories, Novels, Philosophies
HUM 3030	Music-Theatre-Cinema
ITA 2700	(PL) Anguish and Commitment: European Existentialist Literature
MAT 2010	Calculus I
MAT 2020	Calculus II
MAT 2030	Calculus III
MAT 2350	Elementary Differential Equations
NFS 2210	Human Nutrition
NFS 5990	Honors Directed Study
PHI 1020	(PL) Honors Introduction to Philosophical Systems
PHI 1860	Honors Introductory Symbolic Logic
PHI 2320	(PL) Introduction to Ethics
PHI 3550	(PL) Metaphysics
PHI 3600	Space, Time and the Philosophy of Physics
PHI 4870	Honors Directed Reading
PHI 4890	Honors Proseminar
PHY 1040	Einstein, Relativity and Quanta
P S 1010	(AI) American Government
P S 2810	World Politics
P S 4992	Senior Honors Seminar
P S 4995	Senior Honors Paper
PSY 1010	(LS) Introductory Psychology

PSY 2080	Introduction to Drugs, Behavior and Society
PSY 2600	Psychology of Social Behavior
PSY 3310	Abnormal Psychology
PSY 4991	Honors Directed Study
RUS 2700	(PL) Anguish and Commitment: European Existentialist Literature
SOC 4999	Honors Thesis in Sociology
SOC 5870	Violence in the Family
SPA 2700	(PL) Anguish and Commitment: European Existentialist Literature
SPB 1010	(OC) Oral Communication: Basic Speech
UGE 1000	(GE) The University and Its Libraries

Honors-Option Coursework

The Honors Option allows a student in any course above the 1000 introductory level taught by a full-time 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, 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 second week of classes. The completed form must then be returned to the Honors Program Office at the end of the semester.

UNDERGRADUATE COURSES (HON)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99*. In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

The following courses, numbered 0900-6999, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 487.

2100. (CLA 2100) (PL) Honors Classical Origins of Western Thought. Cr. 3

Open only to Honors Program students. 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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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 3.0 cumulative h.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: written consent of director.

4998. University Honors Thesis. Cr. 3-6

Prereq: junior or senior standing. Open only to University honors students. For students not concurrently in departmental/college Honors program. (T)

LINGUISTICS

Office: Room 4025, 51 West Warren; 577-8642

Director: Martha Ratliff

Participating Faculty

Ellen Barton, *Associate Professor, English*

Lynn Bliss, *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*

Ljiljana Progovac, *Assistant Professor, English*

Martha Ratliff, *Associate Professor, English*

Aleya Rouchdy, *Professor, Near Eastern and Asian Studies*

Eli Saltz, *Professor, Psychology*

Patricia Siple, *Associate Professor, Psychology*

Rebecca Treiman, *Professor, Psychology*

Frances Trix, *Assistant Professor, Anthropology*

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. The program offers courses from the major areas of the field, including (a) the structural aspects of sentences (syntax), words (morphology), and speech sounds (phonology), (b) the historical development of language, (c) the semantic and pragmatic basis of language interpretation in sentences and discourses, (d) language variation and use in social contexts (sociolinguistics), (e) the processing and acquisition of language (psycholinguistics), and (f) the application of language to other areas of human knowledge.

Training in linguistics prepares students for advanced work in linguistic research, as well as for employment in teaching English and foreign languages; computer programming (especially in natural language processing); civil service and diplomatic work; broadcasting, mass media and public relations; and generally any profession requiring the precise use or the 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, consult the Wayne State University Graduate Bulletin.

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 26), the College Group Requirements (see page 387), 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 pages 15–45 and 387–392, respectively.

The bachelor of arts program consists of a core of linguistics courses which all majors must complete. In addition to the core courses, the student must pursue one of the following concentrations: a) Linguistics and a Language; b) Formal Linguistics: Syntax and Semantics; c) Psycholinguistics; d) Sociolinguistics; e) Individualized Program.

A student must complete a minimum of twenty-eight credits in core and concentration courses to satisfy the major requirements.

CORE COURSES:

	<i>credits</i>
LIN 5290 —Phonology	3
LIN 5300—Theory of Syntax	3
LIN 5700 —Introduction to Linguistic Theory	3

CONCENTRATIONS:

A. Linguistics and a Language

The student must complete fifteen credits in advanced language skills or in the linguistics of the chosen language beyond the basic courses. In addition, the student must elect an appropriate course in historical linguistics. The fifteen credits in advanced language skills should be planned in consultation with the adviser.

B. Formal Linguistics: Syntax and Semantics

Required Courses:	<i>credits</i>
LIN 1850 —Introductory Symbolic Logic	3
LIN 5570 —Philosophy of Language	4
LIN 5720 — Topics in Language: Morphology	3
LIN 5720 — Topics in Language: Semantics	3

Elective courses to complete 28-credit major requirements:

LIN 5050 — Advanced Symbolic Logic	4
LIN 5200 — Modal Logic	4
LIN 5630 —Twentieth Century Analytic Philosophy I	3
LIN 6710 —Psycholinguistics	3
PHI 5350 —Logical Systems I	4
PHI 5390 —Logical Systems II	4
PHI 5640 —Twentieth Century Analytic Philosophy II	4

C. Psycholinguistics

Required Courses:

LIN 3080 —Cognitive Psychology: Fundamental Processes	3
LIN 6710 —Psycholinguistics	3

Elective courses to complete 28-credit major requirements:

LIN 5080 —Phonetics	3
LIN 6200 —Development of Memory	3
PSY 3010 —Statistical Methods in Psychology	4
PSY 4990 —Directed Study and Research (credit max. 9)	2–4
PSY 6995 —Advanced Special Topics (elect with consent of adviser)	3

D. Sociolinguistics

Required Courses:

LIN 5310 or LIN 5760	
—Language and Culture	3
—American Dialects	3
LIN 5320 or LIN 5770	
—Language and Society	3
—Sociolinguistics	3

Elective courses to complete 28-credit major requirements:

LIN 5760 —American Dialects	3
LIN 5770 —Sociolinguistics	3
LIN 6710 —Psycholinguistics	3
SPC 5040—Rhetoric of Racism	3
SOC 4100 —(SS) Social Psychology	3
SOC 6280 —Social Statistics	4
ANT 5200 —Social Anthropology	3
ENG 5600 —Studies in Folklore	3

E. Individualized Program

A student may design concentrations to meet an individualized program. Plans of work for special concentrations must be approved by the Committee for the Linguistics Program before the student has completed a maximum of twelve credits in the major.

Minor in Linguistics

The minor in linguistics requires at least six courses for a total of eighteen credits. These courses must include:

	<i>credits</i>
LIN 5290 — Phonology	3
LIN 5300—Theory of Syntax	3
LIN 5700 —Introduction to Linguistic Theory	3

The other three courses must be either (a) all from one of the four areas of concentration (A, B, C, or D, above); or (b) all LIN courses from departments in the College of Science or the College of Liberal Arts.

UNDERGRADUATE COURSES (LIN)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

1700. (ENG 1700) English Grammar. 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)

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 metatheory of propositional and first-order logic; some additional advanced topics to be selected by the instructor. (Y)

5080. (SLP 5080) Phonetics. (SED 5320). Cr. 3

Multisensory study of sounds in the English language, emphasizing acoustic, physiologic, kinesio logic approaches. (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. 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. Cr. 3

Prereq: ARB 2020 or consent of instructor. 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) Theory of 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 S S 1910 or SOC 2010 or consent of instructor. An introduction to the structure of language and to the ways that humans use language in the construction of human worlds. Diversity of the world's languages and universal properties of language will be discussed. Theories of language change will be introduced. (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; research in language in societies. (W)

5360. (SLP 5320) Normal Language Acquisition and Usage. (SED 5360). Cr. 3

Language development in children and the associated areas of emotional and motor development; language stimulation techniques and programs. (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)

5630. (PHI 5630) Twentieth Century Analytic Philosophy I. Cr. 4

Prereq: PHI 1850 or PHI 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. (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)

5750. (ENG 5750) Theory of English as a Second Language. Cr. 3

Detailed examination of theories of language and language acquisition relevant to the non-native speaker of English. Review of research in language acquisition and language learning. (I)

5760. (ENG 5760) American Dialects. Cr. 3

Survey of chief social and geographic dialects of American English and introduction to theory of language variation. (I)

5770. (ENG 5770) Sociolinguistics. 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)

5993. (WI) Writing Intensive Course in Linguistics. Cr. 0

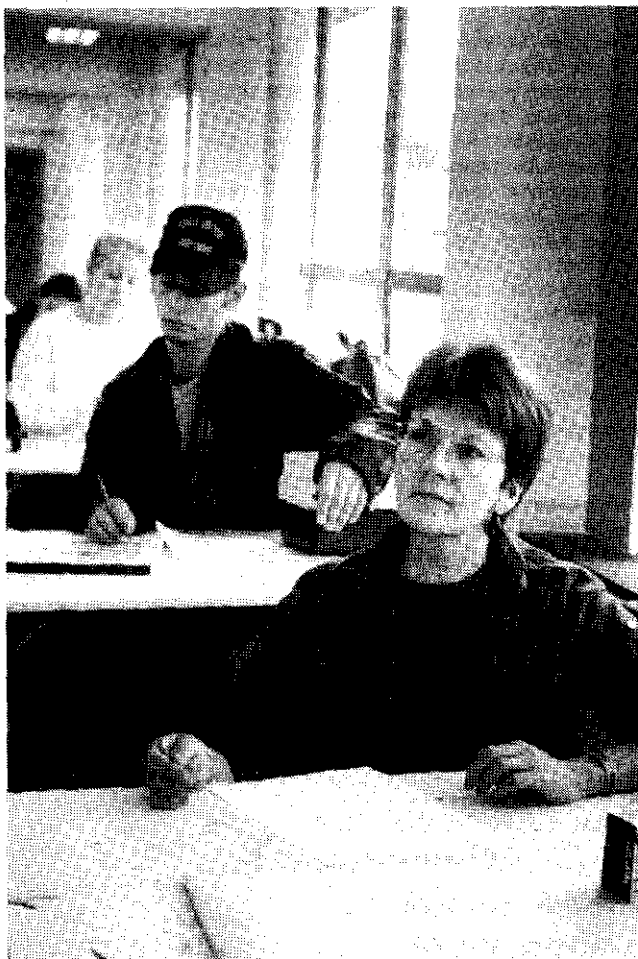
Prereq: junior standing, satisfactory completion of English Proficiency Examination, consent of instructor; coreq: LIN 5290, or 5720, or 5770, or 5300. Offered for S and U grades only. No degree credit. Required for all majors. Disciplinary writing assignments under the direction of a faculty member. 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. Intensive training in literature search, linguistic analysis, and the preparation of scholarly written work. (T)

6200. (PSY 6200) Development of Memory. Cr. 3

Prereq: PSY 3090 and PSY 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. (I)

6710. (PSY 6710) Psycholinguistics. Cr. 3

Prereq: graduate standing or undergraduates with a strong psychology or linguistics background. Theory and research in various topics in psycholinguistics, including language development, speech perception and production, and language comprehension and memory, discussed within the framework of the behaviorist, generative linguistic and information processing approaches to language. (Y)



MATHEMATICS

Office: 1150 Faculty/Administration Building; 577-2479

Chairperson: William S. Cohn

Associate Chairperson: Lowell J. Hansen

Academic Services Officer: Mary Klamo

Professors

Gregory F. Bachelis, Robert D. Berman, Lawrence J. Brenton, Leon Brown, Pao-Liu Chow, William S. Cohn, Daniel S. Drucker, Daniel E. Frohardt, David H. Gluck, David Handel, Lowell J. Hansen, Chong-Shi Houh, John M. Irwin, Rafail Z. Khasminskii, Alexander Korostelev, Leonid Makar-Limanov, Charles A. McGibbon, Jose L. Menaldi, Boris Mordukhovich, Frank Okoh, Jingyal Pak, Choon-Jai Rhee, Yury Rodin, Claude L. Schochet, Bertram M. Schreiber, Tze-Chien Sun, Martin T. Wechsler, Gang Yin

Professors Emeritus

Bertram J. Eisenstad, D. Clarence Morrow, Togo Nishiura

Associate Professors

John C. Breckenridge, Robert R. Bruner, David W. Jonah, Steven M. Kahn, Tachen Liang, Peter Malcolmson, Stephen A. Williams

Assistant Professors

Kay Maggaard, Daoqui Yang

Adjunct Associate Professors

David E. Bindschadler, 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 specializations 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.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

Mathematics Placement Examination

All students, including transfer students, who plan to take MAT 0995, 1050, 1110, 1500, 1800, 2010 or 5160 as their first mathematics course at Wayne State, must take the Mathematics Placement Examination. Results of the examination are used in determining into which course the student is placed. Students intending to take MAT 0993 need not take the examination.

All students take the same examination, 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, 1500, 1800 or 5160. Passing at the third level allows entry into MAT 2010.

Mathematics 0995 and 1050: Students qualify for entry into MAT 0995 or MAT 1050 by having completed one of the following within the previous two semesters: a) satisfactory score on the Mathematics Placement Examination, or b) 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, 5160, 1500 and 1800: Students qualify for entry into MAT 1110, 5160, 1500 or 1800 by having completed one of the following within the previous two semesters: a) satisfactory score on the Mathematics Placement Examination, or b) MAT 1050, or c) MAT 0995. 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 must qualify for entry into MAT 2010 by having completed one of the following within the previous two semesters: a) MAT 1800; or b) a sufficiently high score on the Mathematics Placement Examination. 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 Examination is administered *prior* to the beginning of each semester. It is important for the student to review thoroughly before taking the Examination. A student may take the Examination only once during a testing period.

Time Limitation: Scores on the Mathematics Placement Examination will be honored for only two semesters: the semester immediately following the testing period and its subsequent semester. The Spring/Summer term is included.

Studying for the Exam: Students should review thoroughly before taking the exam and should obtain the 'Study Guide' available from the Department's main office.

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 periodically 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 387) and the University General Education Requirements (see page 26), 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 pages 15–45 and 387–392, respectively.

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, which must be taken concurrently.

2. Physics 2170 and 2180.

3. Computer Science 1100 (formerly CSC 102).

4. One course elected from the following: BIO 1510, CHM 1050, 1070, 1310, 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.

Honor Point Average: For majors, the cumulative honor point average in mathematics (MAT) courses must be at least 2.0.

Curricular Alternatives

Combined Curriculum for Secondary Teaching (CCST): Under the Combined Curriculum (see Teacher Preparation Curricula, page 394), 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 above. 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 and MAT 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, below. Under this option, students are exempt from taking MAT 2350 and have a choice of probability courses MAT 5700 or MAT 2210. Additionally, 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 5680, 5860, 5870, 6500, 6580, 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 (below) 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 5820.

8. One additional course elected from (a) mathematics courses numbered above 5000, excluding service courses (MAT 6130, 6140,

6150), or from (b) CSC 5680, 6500, 6580, 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. Mathematics 5070.
3. Mathematics 5420/5993.
4. Mathematics 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 service courses (MAT 6130, 6140, 6150), or two such courses and one elected from the following: CSC 5680, 6500, 6580, 6620, and 6991 (depending on the topic).

Option C — Concentration in Secondary Teaching

This option is recommended for students in the Combined Curriculum for Secondary Teaching.

1. The Basic Sequence (MAT 2010, 2020, 2030, 2250 and 2350).
2. Mathematics 2210 and 2860.
3. Mathematics 5070.
4. Mathematics 6140.
5. Mathematics 5400 or 5520.
6. Mathematics 5420/5993.
7. (MAT 5600 is required for the B. S. degree. It is not required for the B. A. degree.)
8. One additional mathematics course numbered above 5000, excluding service courses, 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.

1. Mathematics 2010–2030, and 2250.
2. Mathematics 2860.
3. Mathematics 5070.
4. Mathematics 5100.
5. Mathematics 5420/5993.
6. Mathematics 5700 or 2210.
7. (MAT 560 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 service courses MAT 6130, 6140, 6150), or one such course and one course elected from: CSC 5680, 5860, 5870, 6500, 6580, 6620, and 6991 (depending on the topic).

NOTE: The Computer Science Department accepts MAT 5100 as a computer science elective numbered above 2100 but not above 5100.

Option E — Concentration in Actuarial Science

This Option is for students interested in an actuarial career.

1. Mathematics 2010–2030, and 2250.
2. Mathematics 5007
3. Mathematics 5100.
4. Mathematics 5420/5993.
5. Mathematics 5700.
6. Mathematics 5770.
7. Mathematics 5820.
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 service courses MAT 6130, 6140, 6150), 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 honor 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; and other courses such as: all or part of the honors calculus sequence, honors courses which fulfill general distribution requirements, and honors option courses (see Honors Program, page 420).
4. Completion of a Senior Task, for which a student registers under Mathematics 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 Mathematics 2010 and 2030 are taught in the fall semester and in Mathematics 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 PREP (MAT 1050 and 1060) 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, excluding service courses (MAT 6130, 6140, 6150), or (b) MAT 2150 or 2350 or 2210 or 2860 and two mathematics courses numbered above 5000, excluding service courses (MAT 6130, 6140, 6150). A cumulative honor point average of 2.0 or better must be maintained in these courses.

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.

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 I	MAT 5420
Operations Research	MAT 5770
Probability Theory	MAT 5700
Statistical Methods, Applied Time Series and Design of Experiments	MAT 5820, 5830

Engineering and Physical Applications: The Mathematics Department has several sequences in applied mathematics which 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 which begin with Mathematics 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 Mathematics 5700 and 5820. Mathematics 5803 is useful for students interested in applied statistics.

UNDERGRADUATE COURSES (MAT)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

NOTE: A minimum grade of 'C' is required in every prerequisite course.

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. (T)

0993. Beginning Algebra. Cr. 3

Offered for S, M, and U grades only; no degree credit. Review of arithmetic: fractions, decimals, percent, roots, absolute value; algebra: exponents, scientific notation, polynomials, factoring, rational expressions, solving and graphing linear equations, slope; geometry: basic objects and terminology. (T)

0995. Intermediate Algebra. Cr. 3

Prereq: one of the following within previous two semesters: satisfactory score on placement exam or MAT 0993. 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. (T)

1050. Algebra with Trigonometry for Engineers and Scientists. Cr. 5

Prereq: one of following within previous two semesters: satisfactory score on placement exam or MAT 0993. Only two credits apply toward degree. Algebra: solving equations and inequalities, lines, the conic sections, introduction to functions and graphing, logarithms. Geometry and trigonometry: basic concepts, solving right triangles,

Law of Cosines, Law of Sines. Elements of pre-Calculus and Calculus. (T)

1060. Problem Solving for Algebra with Trigonometry. Cr. 2
Coreq: MAT 1050. Offered for S and U grades only. Only one credit applies toward degree. Workshop for MAT 1050. Students work in groups on challenging problems in algebra, geometry and trigonometry. Preview of Calculus; techniques of problem solving. (T)

1800. Elementary Functions. Cr. 4
Prereq: one of following within previous two semesters: satisfactory score on placement exam or MAT 1050, or 0995. Only two degree credits after MAT 1500. The properties and graphs of polynomials, rational functions, trigonometric functions, exponentials and logarithms. (T)

1860. Discrete Mathematics for Computer Science I. Cr. 4
Prereq: MAT 1800. Logic, sets, induction, relations, functions, sequences, matrices, combinatorics, applications to computer science. (T)

1870. Discrete Mathematics for Computer Science II. Cr. 4
Prereq: MAT 1860 or consent of instructor. Analysis of algorithms, recurrence relations, combinatorics, graphs, Boolean algebra, application to computer science. (T)

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 based on precalculus; both computational and theoretical mathematics. Learning through discovery rather than by lecture. (T)

2010. Calculus I. Cr. 4
Prereq: satisfactory score on qualifying exam or MAT 1800 within previous two semesters. No credit after MAT 1510. Concept and interpretation of the derivative and integral; differentiation of rational and transcendental functions; the definite integral; area under a curve; the indefinite integral. (T)

2020. Calculus II. Cr. 4
Prereq: MAT 2010. Vectors; partial derivatives; differentiation of vector functions; techniques and applications of integration. (T)

2030. Calculus III. Cr. 4
Prereq: MAT 2020. Multiple integrals; sequences and infinite series; Taylor Series; vector analysis. (T)

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. Computational and theoretical mathematics, taught through discovery rather than by lecture. (T)

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. Computational and theoretical mathematics, taught through discovery rather than by lecture. (W)

2150. Differential Equations and Matrix Algebra. Cr. 4
Prereq: MAT 2030 or equiv. Differential equations and applications; basic operations of matrices from linear algebra. (T)

2210. (MAT 6150) Elementary Probability and Statistics. 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. (T)

2250. Elementary Linear Algebra. Cr. 3
Prereq: MAT 2020. Topics include: systems of linear equations, matrices, vector spaces, inner products, linear transformations and eigenvalues. Applications presented. (T)

2350. Elementary Differential Equations. Cr. 3
Prereq: MAT 2030 or equiv. Topics include: first order equations, higher order linear equations, Laplace transforms, linear systems. Applications presented throughout the course. (T)

2860. (MAT 6130) Discrete Mathematics. Cr. 4
Prereq: MAT 2020. No credit after MAT 1870. Foundations of mathematics: logic, sets, functions, sequences. Algorithms. The integers. Matrices. Mathematical reasoning: methods of proof, induction, recursive definitions. Combinatorics. Relations: recurrence relations, equivalence relations, orderings. Graph theory and trees. Boolean algebra. Applications to computer science. (Y)

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. (Y)

4010. Introduction to Abstract Mathematics and Proof Writing. Cr. 3
Prereq: MAT 2250 or 2860 or consent of instructor. Introduction to logic (negation, conditional statements, quantifiers), sets, functions and equivalence relations. Structure of standard proofs and proof writing in number theory, topology and algebra. (F,W)

4990. Directed Study: Honors Program. Cr. 1-4(Max. 8)
Prereq: admission to Honors Program by Mathematics Honors Committee. (I)

5030. 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)

Courses Open to Undergraduates and Graduates

5070. 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)

5100. Numerical Methods. 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)

5220. 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)

5230. 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)

5280. Methods of Differential Equations. Cr. 3

Prereq: MAT 2350. Linear n th 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)

5350. (PHI 5350) Logical Systems I. Cr. 4

Prereq: PHI 1850 or PHI 1860 or MAT 5600 or MAT 5420 or consent of instructor. 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 Gödel's incompleteness theorem and Church's Theorem. (B)

5390. (PHI 5390) Logical Systems II. Cr. 4

Prereq: PHI 5350 or MAT 5350 or consent of instructor. Detailed proofs of Gödel's incompleteness results, Tarski's Theorem, and Church's Theorem; formal axiomatic treatment of set theory and selected applications. (B)

5400. 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; elements of geometry of numbers; second pearl of number theory. (Y)

5410. 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)

5420. Algebra I. Cr. 4

Prereq: MAT 2030 and 2250. 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)

5430. Algebra II. Cr. 4

Prereq: MAT 5420. Group theory continued: Sylow Theorems, finite abelian groups. Ring Theory: rings, integral domains, fields of quotients, homomorphisms, ideals, quotient rings, P.I.D.s, U.F.D.s, polynomial rings. Advanced topics in linear algebra: canonical forms. Field theory: extensions, splitting fields, finite fields, geometric constructions. (T)

5520. Introduction to Topology. Cr. 3

Prereq: MAT 2030, and 2250 or 2350. No credit toward graduate degree in mathematics or statistics. An introduction to topology, mostly through an intuitive approach. Topics from among: topological equivalence and topological properties, complexes, Euler characteristic, connectedness, compactness, continuity, Brower's Fixed Point Theorem, vector fields, Hairy Ball Theorem, n -dimensional spaces, classification of surfaces, cut and paste techniques, the Möbius band, orientability, the Fundamental group. (Y)

5530. 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)

5600. 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)

5610. 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)

5700. 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; normal, Poisson and binomial distribution; joint, marginal and conditional distribution functions; law of large numbers; central limit theorems. (T)

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)

5770. Mathematical Models in Operations Research. Cr. 3

Prereq: MAT 2030, 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. (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)

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: 5420 or 6160. 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. Topics in Mathematics for High School Teachers I. (MAT 2860). Cr. 4

Prereq: MAT 2020. No credit after MAT 1870. Foundations of mathematics: logic, sets, functions, sequences. Algorithms. The integers. Matrices. Mathematical reasoning: methods of proof,

induction, recursive definitions. Combinatorics. Relations: recurrence relations, equivalence relations, orderings. Graph theory and trees. Boolean algebra. Applications to computer science. (Y)

6140. Topics in Mathematics for High School Teachers II. Cr. 3

Prereq: MAT 2030, and 2250 or 2350. Axiomatic geometry: logic, methods of proof, models; Hilbert's axioms; the Parallel Postulate; "Neutral," Euclidean and non-Euclidean geometries; Hyperbolic geometry; Poincare models. (Y)

6150. Topics in Mathematics for High School Teachers III. (MAT 2210). Cr. 4

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)

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 Moebius 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. (Y)

6600. Complex Analysis. Cr. 2 or 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. (Y)

6830. Design of Experiments. Cr. 3

Prereq: MAT 5820. Randomized blocks; Latin and Graeco-Latin squares; factorial designs; confounding; split plot; fractional replication; balanced incomplete blocks. (I)

6840. Linear Statistical Models. Cr. 3

Prereq: MAT 5820 or equiv. Introduction to theory of linear statistical models; for advanced undergraduate or beginning graduate students. (B)

Service Courses

1110. Mathematics for Elementary Teachers I. Cr. 3

Prereq: one of following within previous two semesters: satisfactory score on qualifying exam, or MAT 1050, or 0995 with recommendation of instructor to enter 1110. No degree credit in Colleges of Science and Liberal Arts. Open only to students in teacher preparation curricula. Whole numbers, integers, geometry. (T)

1120. Mathematics for Elementary Teachers II. Cr. 3

Prereq: MAT 1110. No degree credit in Colleges of Science and Liberal Arts. Open only to students in teacher preparation curricula. Rational numbers, geometry, probability, statistics, number theory. (T)

1500. Finite Mathematics for the Social and Management Sciences. Cr. 3

Prereq: one of following within previous two semesters: satisfactory score on qualifying exam or MAT 1050, or 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. (T)

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. (T)

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. (T)

5160. Mathematics for Elementary School Teachers I. (MAE 5050). Cr. 3

Prereq: one of following within previous two semesters: satisfactory score on qualifying exam or MAT 1050, or 0995 with recommendation of instructor to enter 5160. No credit toward a major or minor for secondary mathematics teaching. Graduate credit for MAE 5050 only; undergraduate credit for MAT 5160 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. (Y)

5170. Mathematics for Elementary School Teachers II. (MAE 5060). Cr. 3

Prereq: MAT 5160. No credit toward a major or minor for secondary mathematics teaching. Graduate credit for MAE 5060 only; undergraduate credit for MAT 5170 only. 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; analytical geometry of the line. (Y)

5180. Mathematics for Middle/Junior High School Teachers I. (MAE 5100). Cr. 3

Prereq: MAT 5160 and 5170 or consent of instructor. No credit toward a major or minor for secondary mathematics teaching. Graduate credit for MAE 5100 only; undergraduate credit for MAT 5180 only. Development of Euclidean geometry as a mathematical system; related historical topics; introduction to other geometries; selected topics such as transformations and tessellations. (Y)

5190. Mathematics for Middle/Junior High School Teachers II. (MAE 5110). Cr. 3

Prereq: MAT 5180. No credit toward a major or minor for secondary mathematics teaching. Graduate credit for MAE 5110 only; undergraduate credit for MAT 5190 only. Trigonometry and analytical geometry. (Y)

NUTRITION and FOOD SCIENCE

Office: 3009 Science Hall; 577-2500

Chairperson: David M. Klurfeld

Administrative Assistant: Laura Lee Birnie-Lindemann

Professors

Mary Jane Bostick (Emerita), Esther D. Callard (Emerita), David M. Klurfeld, K.-L. Catherine Jen, Leora A. Shelef

Assistant Professors

Thomas W. Fungwe, Pramod Khosla

Lecturers

Margaret Alexander-McLand, Tonia Reinhard

Field Coordinators/Instructors

John Allison (HDS Services); Nida Donar (Hunger Action Coalition); Suzette Flannery-Gathen (Hemacare Health Systems); Jean Gondoly (Providence Hospital); Stan Healy (DMC Nursing and Convalescent Center); Dorothy Hood (Grace Hospital); Betty Kriegel (Crittenton Hospital); Carrie Nelms (Wayne County Health Department); Checella Newton (Macomb Intermediate School District); Joanne Reid (Hutzel Hospital); Sylvia Simmons (Detroit Receiving Hospital); Doreen Staurt (Mt. Clemens General Hospital); Diane Taylor (Grace Hospital—Renal Unit); Ann Wassell (Hemacare—Redford); Amy Womoff (Macomb Hospital)

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

**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 managerial positions in a variety of food service establishments.

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 387) and the University General Education Requirements (see page 26), 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 pages 15-45 and 387-392, respectively.

Bachelor of Arts with a Major in Nutrition and Food Science

This curriculum allows students to major in nutrition and food science with additional course work in management and exposure in other cognate fields. It is recommended for students interested in managerial positions in food service establishments and requires a less rigorous background in chemistry and other natural science courses than is required for the B.S. degree in this discipline. The student is provided with skills in personnel management, food and nutrition, materials management, and cost control and other data processing systems. Employment opportunities include 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, 5130, 5220, 5350, 6130, 6160, 6850
and an additional three credits in upper division NFS courses

Biological Sciences 1050, 2200

Chemistry 1020, 1030

Economics 2010, 2020

Mathematics 1500

Psychology 1020

Accounting 3010

Management 4510, 5700, 5740

Marketing 4300

COMMUNITY COLLEGE COURSES

Candidates for the degree must complete one course in each of the following areas: 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.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

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 eighty-one credits in science courses of which at least thirty must be in the major subject, nutrition and food science:

CORE COURSES

Nutrition and Food Science 2130, 2140, 2210, 5130, 5140, 5230, 5250, 6160, 6850 and an additional three credits of upper division course work in Nutrition and Food Science.

Biological Sciences 1510, 1520, 2200, 2870
Chemistry 1050 or 1070, 1080, 2240, 2260, 2270
Mathematics 1800
Physics 2130, 2140
Statistics 1020

Bachelor of Science in Dietetics

The coordinated dietetics program 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 an internship. The dietetics program is currently granted accreditation status by the American Dietetic Association Council on Education Division of Education Accreditation/Approval, 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,* 5130, 5140, 5220, 5230, 5250, 5350, 6850
Anthropology 2100 * or Sociology 2000 *
Biological Sciences 1510,* 2200,* 2870 *
Chemistry 1050 or 1070,* 1080,* 2240 *
Economics 2010 *
Psychology 1020 *
Statistics 1020*
Biochemistry 5010 *
Management 4510 *
Instructional Technology 5110, 5120

DEGREE REQUIREMENTS: Candidates for this degree must complete at least 130 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 pages 387 and 26, respectively).

DIETETICS

Nutrition and Food Science 3200, 3210, 3220, 4200, 4210, 4220, 4360

Honors Program

Admission: A minimum honor point average (h.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 h.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 5996).
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 NFS 5990, Honors Directed Study, or in any other department of the College. (For a listing of honors courses offered each semester, see the *Schedule of Classes* under 'Honors Program.')

Students must have an overall honor point average of 3.3 and maintain an overall honor 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, and an additional eleven credits in upper division NFS courses

'AGRADE'—Accelerated Graduate Enrollment

Qualified seniors in Nutrition and Food Science having not less than a 3.5 h.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.

UNDERGRADUATE COURSES (NFS)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

2030. (LS) Introductory Nutrition. Cr. 3–4

Meets General Education laboratory requirement, and material fees apply, when elected for four credits. Material fee as indicated in *Schedule of Classes*. Breakage fee as indicated in *Schedule of Classes*. 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. Laboratory component illustrates physiological and biochemical principles of nutrition. (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. Material fee as indicated in *Schedule of Classes*. Experimental study of principles discussed in NFS 2130. For students interested in the scientific study of food. (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)

3200. Introduction to Dietetics. 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.

(F)

3210. Dietetic Practice I. Cr. 4

Prereq: admission to the program; coreq: NFS 3200. Open only to students in coordinated dietetics program. Material fee as indicated in *Schedule of Classes*. Introduction to dietetic practice. Beginning-level supervised practice experiences in food service, clinical and community dietetics in a variety of settings throughout the greater Detroit metropolitan area. (F)

3220. Dietetic Practice II. Cr. 4

Prereq: NFS 3210; coreq: 5250. Open only to students in coordinated dietetics program. Material fee as indicated in *Schedule of Classes*. Supervised practice experience in clinical dietetics; nutrition assessment, care plan development, implementation, evaluation and documentation for persons with acute and chronic health problems; examination of interface between food service and clinical dietetics in an acute care setting; national nutrition month promotional activities. (W)

4200. Advanced Dietetics. Cr. 3

Prereq: NFS 3200, 5230, 5250; coreq: 5220. Recommended for students in coordinated dietetics program. Development and refinement of dietetic practitioner skills through applications in critical care and speciality practice areas and in community agencies; theoretical basis for individual counseling and group process. (F)

4210. Dietetic Practice III. Cr. 5

Prereq: NFS 3220, 5230, 5250; coreq: 4200, 5220. Open only to students in coordinated dietetics program. Material fee as indicated in *Schedule of Classes*. 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. (F)

4220. Dietetic Practice IV. Cr. 8

Prereq: NFS 4210. Open only to students in coordinated dietetics program. Material fee as indicated in *Schedule of Classes*. 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. (W)

4360. Management of Nutritional Care and Services. Cr. 2

Prereq: NFS 4200; coreq: 4220. Recommended for students in coordinated program in dietetics. Application of management theory and principles in the three areas of dietetic practice; career planning and professional role development. (W)

4990. Directed Study. Cr. 1–4

Prereq: written consent of instructor. (T)

5130. Food Chemistry. Cr. 3

Prereq: NFS 2130 or equiv., CHM 2240. 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 1080 or equiv. Material fee as indicated in *Schedule of Classes*. 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. (Y)

5220. Community Nutrition. Cr. 4

Prereq: NFS 2130, 2140, 2210, 5230, 5250. 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)

5230. Nutrition and Metabolism. Cr. 4

Prereq: NFS 2210, BIO 2870 or equiv.; BCH 5010 or equivalent course in biochemistry. The physio-biochemical properties of nutrients and their bionutritional 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)

5990. Honors Directed Study. Cr. 1-4(Max. 6)

Prereq: College honors standing; 3.3 h.p.a. (T)

5992. Supervised Field Experience. Cr. 2-4

Prereq: written consent of instructor. Supervised field experience designed to correlate classroom theory with practical work. (T)

5996. Research in Food Science and Nutrition. Cr. 2-4(Max. 6)

Prereq: written consent of instructor. Minimum of 3 hours of lab research for each credit. Research projects under direction of faculty active in research. (T)

6060. Research Problems in Nutrition and Food Science. Cr. 4

Prereq: consent of instructor. Research orientation: acquaintance with published data, principles of design, methods of collecting data, and basic statistical analysis. (B)

6130. Food Preservation. (CHE 6130). Cr. 4

Prereq: BIO 2200, NFS 2130, and NFS 5130 or equiv. Material fee as indicated in *Schedule of Classes*. Fundamentals of food preservation: refrigeration, freezing, thermal processing, dehydration and concentration, salting and smoking, chemical preservation, radiation preservation, fermentation. (F)

6160. Food Laws and Regulations. Cr. 3

Prereq: NFS 2210 and 5130 or equiv. 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. (B)

6210. Nutrition through the Life Cycle. Cr. 3

Prereq: NFS 2210. Biological growth and nutritional requirements from fetal stages of development through aging. Nutritional standards in light of current epidemiological data and scientific research. (S)

6230. Nutrition and Physical Performance. (NFS 7230). Cr. 3

Prereq: NFS 2210, advanced biochemistry course. 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)

6850. (W) Seminar. Cr. 2-4(Max. 6)

Prereq: consent of instructor; senior standing. Topics to be announced in *Schedule of Classes*. (F,W)

PHYSICS and ASTRONOMY

Office: 135 Physics Research Building; 577-2721

Chairperson: Thomas H. Cormier

Associate Chairperson: William P. Beres

Assistant Chairperson: Talbert S. Stein

Academic Services Officer: Gayle Chlebniak

Professors

George B. Beard (Emeritus), William P. Beres, Henry V. Bohm (Emeritus), Jhy-Jiun Chang, Juei-Teng Chen, Thomas M. Cormier, Harry H. Denman (Emeritus), Gerald L. Dunifer, Lawrence D. Favro, David M. Fradkin (Emeritus), Suraj N. Gupta (Distinguished), Paul E. Karchin, Walter E. Kauppila, Paul H. Keyes, Yeong Wook Kim, Pao-Kuang Kuo, William B. Rolnick, Alvin M. Saperstein, Martin Stearns (Emeritus), Talbert S. Stein, Melbourne G. Stewart (Emeritus), Robert L. Thomas, Jogindra M. Wadehra, Lowell E. Wenger

Associate Professors

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Assistant Professors

Simon J. Bennett (Research), David A. Cinabro, Rodney Greene, Jerry R. Hall, Robert F. Harr, Aleksandr Makhlin (Research), James M. Johnson (Research), Ching-Kwan Kwan (Research), Sanjeev Pandey (Research), Claude A. Pruneau, Stephen F. Takach (Research), Gerd M. Welke, William K. Wilson (Research)

Adjunct Professors

Henry Holloway, Robert C. Jaklevic, Toshimura Kushida, Eleftherios M. Logothetis

Adjunct Associate Professor

Roger Pryor

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.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

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, optics, 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 the 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 387) and the University General Education Requirements (see page 26), 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 pages 15–45 and 387–392, respectively.

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.

— Basic Requirements for All Options

1. Physics 2170, 2180, 3300, 5200, 5600 (*total 20 credits*).
2. Elementary mathematics sequence—MAT 2010, 2020, 2030, 2350 (*total 15 credits*).
3. Chemistry 1070 (*four credits*).
4. Satisfaction of all University and College group and competency requirements.

— 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 5300, 6200, 6300, 6500, 6510, 6600, 6800, 6810, and the Modern Physics laboratory courses PHY 6850 and 6890 (*total 29 credits*). PHY 6310 (*three credits*) is not required, but is recommended.
2. MAT 5070 and 5220 (*total eight credits*).

Typical General Physics Sequence *

— including University and College Group Requirements

Fall Semester

Chemistry 1070	4
Mathematics 2010	4
University Group Req.	3–4
English (BC)	4
UGE 1000 (GE)	1
Total:	16–17

Winter Semester

Freshman Year

Physics 2170	5
Mathematics 2020	4
University Group Req.	3–4
English (IC)	3–4
Total:	15–17

Sophomore Year

Physics 2180	5	Physics 3300	3
Mathematics 2030	4	Physics 5200	3
(LS) elective	4	Mathematics 2350	3
University Group Req.	3–4	College Group Req.	3–4
Total:	16–17	University Group Req.	3–4
		Total:	15–17

Junior Year

Physics 5300	3	Physics 6850	2
Physics 5600	4	Physics 6200	4
Mathematics 5070	4	Physics 6600	3
College Group Req.	3–4	Mathematics 5220	4
Total:	14–15	College Foreign Lang. I	4
		Total:	17

Senior Year

Physics 6500	3	Physics 6510	3
Physics 6300	3	Physics 6310 (recommended)	3
Physics 6890	2	Physics 6810	3
Physics 6800	3	College Foreign Lang. III	4
College Foreign Lang. II	4	University Group Req.	3–4
Total:	15	Total:	16–17

— Applied Physics Option

This option is intended to provide the diverse kinds of training which are required for a variety of applied fields and still provide the essential understanding of the physical foundations of those fields. It combines a thorough training in fundamental physics with sufficient flexibility for the student to take courses in other areas such as chemistry, biology, computer science, mathematics, geology or engineering. While many graduates may proceed directly into industrial positions (particularly in engineering fields) many may go on to graduate school in areas such as biophysics, electrical engineering, etc.

Additional requirements beyond the basic ones listed above:

1. PHY 6500, 5300, and the laboratory courses PHY 5620 and 6850 (*total 13 credits*).
2. A total of *at least six additional credits* in Physics. PHY 5350 is recommended; other applied physics courses are: PHY 6890, 6860, 6870, and 6350.

* Not including an oral communication (OC) course and/or a critical thinking (CT) course.

3. MAT 5070 is not required but is recommended (four credits).

4. Electives in applied physics, mathematics or other scientific or technical departments in order to meet the University minimum total requirement of 120 credits.

Typical Applied Physics Sequence **
— including University and College Group Requirements

<i>Fall Semester</i>	<i>Winter Semester</i>
Freshman Year	
Chemistry 1070 4	Physics 2170 5
Mathematics 2010 4	Mathematics 2020 4
University Group Req. . . 3-4	University Group Req. . . 3-4
English (BC) 4	English (IC) 3-4
UGE 1000 1	Total: 15-17
Total: 16-17	
Sophomore Year	
Physics 2180 5	Physics 3300 3
Mathematics 2030 4	Physics 5200 3
(LS) Elective 4	Mathematics 2350 3
University Group Req. . . 3-4	College Group Req. . . . 3-4
Total: 16-17	University Group Req. . . 3-4
	Total: 15-17
Junior Year	
Physics 5300 3	Physics 6850 2
Physics 5600 4	Physics 5620 5
Physics 5350 3-5	Applied Elective 3-4
College Group Req. . . . 3-4	College Foreign Lang. I . . . 4
Total: 13-16	Total: 14-15
Senior Year	
Physics 6500 3	Physics Elective 3-4
Applied Elective 3-4	Applied Elective 3-4
Mathematics 5070 4	University Group Req. . . 3-4
College Foreign Lang. II . . 4	College Foreign Lang. III . . 4
Total: 14-15	Total: 13-16

— 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, 5070 and one additional course in biology; CHM 1080, 2240, 2260, and 2270 (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 Office for possible changes in premedical requirements outlined in the following suggested curriculum.

** The total credits in this typical sequence is 116-130 (not including an oral communication (OC) course and/or a critical thinking (CT) course). If necessary, another applied course may be added to total 120 credits.

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.

<i>Fall Semester</i>	<i>Winter Semester</i>
Freshman Year	
Chemistry 1070 4	Chemistry 1080 5
Mathematics 2010 4	Mathematics 2020 4
	Physics 2170 5
Fall Semester	
Winter Semester	
Sophomore Year	
Physics 2180 5	Physics 3300 3
Biology 1500 4	Physics 5200 3
Mathematics 2030 4	Biology 1510 4
	Mathematics 2350 3
Junior Year	
Physics 5600 4	Physics 5620 5
Chemistry 2240 4	Chemistry 2260 4
Biology 3070 4	Chemistry 2270 2
Senior Year	
Physics Elective 3-4	Physics Elective 3-4
Biology Elective 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, 2180, 3300. 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.

3. (a) Elementary Mathematics Sequence: MAT 2010, 2020, 2030, 2350.

(b) Intermediate Mathematics Course: MAT 5070.

4. Chemistry 1070

5. Satisfy all University and College Group Requirements and Competency Requirements.

Advanced Placement

Students should seek to obtain advanced placement in English, mathematics, and foreign languages. Information on advanced placement examinations may be obtained from the University Advising Office.

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 and 2180 (or Physics 2130 and 2140) plus Physics 3300 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.



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All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

ASTRONOMY (AST)

2010. (PS) Descriptive Astronomy. (Lct: 4; Lab: 2). Cr. 4–5
Meets General Education Laboratory Requirement when elected for 5 credits. Optional lab includes 4 late evening viewing sessions. Material fee as indicated in *Schedule of Classes*. Introduction to the concepts and methods of modern astronomy; the solar system, stars, galaxies, and cosmology; including recent discoveries about the planets, moon, sun, pulsars, quasars, and black holes. Only a minimal knowledge of high school mathematics is needed. (T)

2110. Descriptive Astronomy Laboratory. (Lab: 2). Cr. 1
Prereq: AST 2010 for 4 credits, or 5010 or PHY 5010 or written consent of instructor. No credit after AST 2010 if taken for five credits. Material fee as indicated in *Schedule of Classes*. Laboratory for AST 2010. (T)

5010. Astrophysics and Stellar Astronomy. (PHY 5010). (Lct: 3). Cr. 3
Prereq: PHY 2140 or PHY 2180, MAT 2010, or consent of instructor. Material fee as indicated in *Schedule of Classes*. Introduction to astrophysics and stellar astronomy for students in science, engineering and mathematics; emphasis on applications and tests of physical principles (i.e. atomic spectroscopy, nuclear physics, quantum mechanics, and the general theory of relativity); stellar interiors and evolution; origin of the elements and electromagnetic and particle radiation; pulsars, quasars and black holes. (B:W)

PHYSICS (PHY)

All courses with a laboratory have a non-refundable materials fee and are so indicated in the *Schedule of Classes*.

1000. Conceptual Physics Laboratory. Cr. 1

Prereq: PHY 1020 if taken for three credits, or written consent of instructor. No credit after PHY 1020 if taken for four credits. Material fee as indicated in *Schedule of Classes*. Laboratory for PHY 1020.

(F,W)

1020. (PS) Conceptual Physics: The Basic Science. Cr. 3-4

Meets General Education Laboratory Requirement when elected for 4 credits. Material fee as indicated in *Schedule of Classes*. 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.

(F,W)

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)

1050. Problem Solving for the Physical Sciences. Cr. 2

Open only to Research Careers for Minority Scholars students. Offered for S and U grades only. Introduction to mathematical methods of the physical sciences and computer programming concepts for scientific problem solving.

(Y)

1070. (PS) Energy and the Environment. Cr. 4

Prereq: high school algebra. Material fee as indicated in *Schedule of Classes*. Introduction to energy production and usage, and environmental impact. Topics include: fossil fuels, electricity, pollution, nuclear power, solar power.

(T)

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. 4

Prereq: high school algebra and trigonometry. Meets General Education Laboratory Requirement. No credit after PHY 2170. Material fee as indicated in *Schedule of Classes*. For general Liberal Arts and Science students and for students preparing for medicine, dentistry, pharmacy and allied health sciences. Mechanics, thermal physics, wave motions, and optics.

(T)

2140. General Physics. Cr. 4

Prereq: PHY 2130. No credit after PHY 2180. Material fee as indicated in *Schedule of Classes*. Continuation of PHY 2130. Electricity, magnetism and introduction to modern physics.

(T)

2170. (PS) General Physics. Cr. 4-5

Prereq: MAT 2010; coreq: MAT 2020. Only engineering students may elect for four credits; others must elect five credits. No credit after PHY 2130 except with consent of department. Meets General Education Laboratory Requirement when elected for 5 credits. Material fee as indicated in *Schedule of Classes*. 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)

2180. General Physics. Cr. 4-5

Prereq: PHY 2170, MAT 2020. Only engineering students may elect for four credits; others must elect five credits. No credit after PHY 2140. Material fee as indicated in *Schedule of Classes*. 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 2170 or 2180 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. Material fee as indicated in *Schedule of Classes*. Laboratory for PHY 2170 and PHY 2180.

(T)

3100. (PS) The Sounds of Music. Cr. 4

Prereq: sophomore standing. Meets General Education Laboratory Requirement. Material fee as indicated in *Schedule of Classes*. 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.

(Y:F)

3300. Introductory Modern Physics. Cr. 3

Prereq: PHY 2180 or consent of instructor. 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)

3990. Directed Study. Cr. 1-3(Max. 5)

Prereq: written 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. Material fee as indicated in *Schedule of Classes*. An introduction to astrophysics and stellar astronomy for students in science, engineering and mathematics; emphasis placed on applications and tests of physical principles (atomic spectroscopy, nuclear physics, quantum mechanics and the general theory of relativity); stellar interiors and evolution; origin of the elements and electromagnetic and particle radiation; pulsars, quasars and black holes; galactic structure and cosmology.

(B:W)

5030. Plasma Physics. Cr. 3

Prereq: PHY 5600, or 2180 and consent of instructor and MAT 2010. Introduction to plasma physics for students in science and engineering. Motion of charged particles in electromagnetic fields; magnetoionic 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. Material fee as indicated in *Schedule of Classes*. Dynamics of particles and systems including central force motion, coupled oscillations and waves in elastic media.

(W)

5300. Modern Physics II. Cr. 3

Prereq: PHY 3300, 5200, and MAT 2350. Development of the foundations of modern physics based on the concepts of quantum states, photons, probability amplitudes, state vectors and operators.

(F)

5350. Optics. Cr. 3-5

Prereq: PHY 2180 or 2140, MAT 2030. Only non-physics majors may take course without laboratory. Material fee as indicated in *Schedule of Classes*. Other Course fee as indicated in *Schedule of Classes*.

Geometrical and physical optics: wave motion, interference, diffraction, refraction, dispersion, polarization. (F)

5550. Basic Electronics. Cr. 4

Prereq: PHY 2140. Not open to physics majors. Material fee as indicated in *Schedule of Classes*. Other Course fee as indicated in *Schedule of Classes*. 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. (F)

5600. (WI) Electricity and Magnetism I. Cr. 4

Prereq: PHY 2180, or 2140 with consent of instructor; MAT 2350. Material fee as indicated in *Schedule of Classes*. 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. Material fee as indicated in *Schedule of Classes*. Other Course fee as indicated in *Schedule of Classes*. Amplifier circuits, operational amplifiers, oscillators, digital electronics, analog and digital measurements. (W)

5990. Directed Study. Cr. 1–3(Max. 6)

Prereq: junior standing and written 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)

6040. Principles of Physics for Middle and High School Teachers. Cr. 4

Prereq: PHY 1020 or 2130 or equiv. or consent of instructor. Open only to middle and high school teachers. Understanding nature in terms of energy and the fundamental forces, including: mechanics, vibrations and waves, heat and thermodynamics, electromagnetism, optics, modern physics and astronomy. (I)

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, relativity, quantum theory, atomic and nuclear physics, optics. (Y)

6200. Theoretical Mechanics. Cr. 4

Prereq: PHY 5200 and MAT 2350. Material fee as indicated in *Schedule of Classes*. 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. (W)

6300. Quantum Theory I. Cr. 3

Prereq: PHY 5300; MAT 5070 and MAT 5220. Presentation of quantum mechanics in a self-consistent manner in which basic principles are introduced directly. The concepts of quantum-mechanical states and amplitudes are clearly established before the introduction of wave functions. (F)

6310. Quantum Theory II. Cr. 3

Prereq: PHY 6300. Continuation of PHY 6300. (W)

6350. Applied Modern Optics. Cr. 3

Prereq: PHY 5350. Coherent radiation, laser physics and optical devices, optical techniques in experimental science, topics in modern optics. (B:F)

6500. Thermodynamics and Kinetic Theory. Cr. 3

Prereq: PHY 2180 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Development of the laws of thermodynamics, thermodynamic equilibrium, applications, kinetic theory of gases. (F)

6510. Statistical Physics. Cr. 3

Prereq: PHY 6500. Basic introduction to the classical and quantum statistical description of physical systems with large numbers of particles. (W)

6600. Electricity and Magnetism II. Cr. 3

Prereq: PHY 5600 and MAT 5070. Material fee as indicated in *Schedule of Classes*. Electromagnetic radiation, electromagnetic waves, magnetic materials, superconductivity, special relativity, 4-vectors, fields in bounded regions, wave guides, resonant cavities. (W)

6800. Atoms, Molecules and Solids. Cr. 3

Prereq: PHY 5300, 5600, MAT 2350. Material fee as indicated in *Schedule of Classes*. Study of one-electron atoms using solutions of three-dimensional Schrodinger 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)

6810. Nuclei and Elementary Particles. Cr. 3

Prereq: PHY 6800. Material fee as indicated in *Schedule of Classes*. Basic understanding of subatomic physics. Modern ideas in nuclear and elementary particle physics; emphasis on common concepts and features. Relationships to experimental results. (W)

6850. (WI) Modern Physics Laboratory I. Cr. 2

Prereq: PHY 5300 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Techniques and experiments in physics of atoms, atomic nuclei, molecules, the solid state and other areas that have advanced our modern understanding of physics. (W)

6860. Computational Physics. Cr. 3

Material fee as indicated in *Schedule of Classes*. Introduction to computational languages and the local computational environment; data acquisition and processing, graphical representation of physical data; elements of network computing; solution of selected physical problems using techniques of numerical analysis, numerical integration, and numerical solutions of algebraic and differential equations; parallel computing. (W)

6890. Modern Physics Laboratory II. Cr. 2

Prereq: PHY 6850. Continuation of laboratory procedures learned in PHY 6850. Further presentation of techniques and experiments in the physics of atoms, atomic nuclei, molecules, solid state physics and other areas of current interest. (F)

6991. Special Topics. Cr. 1–4(Max. 4)

Prereq: consent of instructor. 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)

6992. Physics Graduate Teaching Assistant Training. Cr. 1

Prereq: graduate standing or consent of instructor. Offered for S and U grades only. Students solve and discuss problems from calculus-based general physics courses in front of their peers and instructor, enhancing their ability to analyze, interpret and present the material in a clear, informative way. (Y)

PSYCHOLOGY

Office: Room 214, 71 West Warren; 577-2800

Chairperson: Donald V. Coscina

Associate Chairperson: Hilary Horn Ratner

Administrative Assistant: Dana R. Leasendale

Professors

Ernest L. Abel, Joel W. Ager, Sheldon Alexander, Lynn R. Anderson, David Asdourian (Emeritus), Alan R. Bass, Robert F. Berman, Sandor B. Brent, C.G. Browne (Emeritus), Donald V. Coscina, Donald N. Elliott (Emeritus), Ira J. Firestone, Joseph M. Fitzgerald, LaMaurice H. Gardner, Joseph L. Jacobson, Chris-Ellyn Johanson, Kalman J. Kaplan, M. Marlyne Kilbey, Gisela Labouvie-Vief, Sheldon J. Lachman (Emeritus), Sheldon G. Levy, Hilary Ratner, Annette U. Rickel, Hjalmar Rosen (Emeritus), Gerald Rosenbaum (Emeritus), Eli Saltz, Carolyn M. Shantz, Ross Stagner (Emeritus), Laurence J. Stetner, Rebecca A. Treiman, Francine Wehmer (Emeritus), R. Douglas Whitman, Alice M. Young

Associate Professors

Rita Casey, Kenneth Davidson (Emeritus), Sebastiano Fiscaro, Winifred R. Fraser (Emeritus), Melissa G. Kaplan-Estrin, Brian Lakey, Cary M. Lichtman, Michael M. Reece (Emeritus), Patricia Siple, Paul Toro, Kathryn Urberg, Glenn E. Weisfeld

Assistant Professors

Douglas Barnett, Stuart Bernstein (Visiting), Melissa Franks, Mark Lumley, Michael Marsiske, Lisa Rapport

Lecturers

Jeremy Hall, Philip Moberg

Research Professor

Sandra W. Jacobson

Research Scientist

Ali Naqvi

Adjunct Professors

Kenneth M. Adams, Naomi Breslau

Adjunct Associate Professors

Antonia Abbey, Gregory Brown, John Hannigan, Sandra W. Jacobson, Mark Ketterer, Helene Lycaki, Daphna Oyserman, Timothy Roehrs, Barry A. Tanner

Adjunct Assistant Professors

Linda S. Angell, Bradley Axelrod, Rebecca D. Baird, Jesse Wylie-Oliver Bell, Jr., Michael Butkus, Allan B. DeHorn, Jerel E. Del Doto, Grenae D. Dudley, Lisa A. Fruchtman, Robert Guenther, Melinda Henderson, Mark Kelland, Joan Lessen-Firestone, Ronald Lewis, Ira Lourie, Scott Millis, Lynn V. Pantano, Steven Putnam, Robert Rothermel, William Schaffer, Richard Smith, Barry Tanner

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 specializations in biopsychology, clinical, cognitive, developmental, industrial/organizational, or social psychology*

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 Secretary of the Psychology Department, who will arrange student appointments with advisers.

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, and have at least a 2.0 overall honor point average. Although students normally declare their major during the semester in which they 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 (made by calling the Department's Undergraduate Secretary). The final step is delivery of the signed Declaration of Major form to the Dean's Office of the College of Science.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

DEGREE REQUIREMENTS: Candidates for the bachelor's degree must complete 120 credits in course work including satisfaction of College Group Requirements (see page 387) and the University General Education Requirements (see page 26), 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 pages 15–45 and 387 – 392, respectively.

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. The sequence of courses must be approved by the student's major adviser. Degree requirements include:

Psychology 1010	(LS) Introductory Psychology
Psychology 3010	Statistical Methods in Psychology

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:

Psychology 3040	Psychology of Perception: Fundamental Processes and
Psychology 3050	Laboratory in Psychology of Perception
OR	
Psychology 3060	Learning and Memory: Fundamental Processes and
Psychology 3070	Laboratory in Learning and Memory
OR	
Psychology 3080	Cognitive Psychology: Fundamental Processes and
Psychology 3090	Laboratory in Cognitive Processes

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.

Three of the following courses:

Another (second) laboratory course from the selection listed above :
(PSY 3040/3050, 3060/3070, 3080/3090)

Psychology 2400	Developmental Psychology
Psychology 2600	Psychology of Social Behavior
Psychology 3120	Brain and Behavior
Psychology 3350	Psychology of Personality
Psychology 4020	Research in Psychology
Psychology 5050	Physiological Psychology

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 387.

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 Undergraduate Secretary

of the Psychology Department and make an appointment to see the Departmental Honors Program supervisor.

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), 2600 (Psychology of Social Behavior), and 3310 (Abnormal Psychology). In addition, there is a senior Honors course (4998) in which students complete a senior thesis.

Citation for Majors: Psychology majors earning an over–all grade point average of 3.0 and a grade point average of 3.5 in psychology courses will receive a departmental citation at the time of graduation.

Career–Related Concentrations

For students majoring in the B.A. or B.S. in Psychology Program

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. The purpose of the following information is to highlight specific courses as desirable background for particular kinds of work. Students interested in such careers should contact the Undergraduate Secretary of the Psychology Department for referral to an appropriate faculty adviser.

1. *Personnel psychology workers* require knowledge, background and skills in construction, administration, and scoring of psychological tests. They may assist in establishing job requirements, developing interview procedures and rating scales, and organizing training programs and programs to reduce accidents, absenteeism, and turnover. In addition to degree requirements, suggested courses include: PSY 3500, 4110, 4990, 5540, 5630, 6530, 6540, and 6550. See the Undergraduate Secretary for specific concentration information.

2. *Mental health workers in psychology (or mental health assistants)* need knowledge, background, and skills in interviewing, routine administration of tests, and various kinds of direct contact with persons. In addition to degree requirements, suggested courses include: PSY 2400, 3310, 3380, 4310, and 4993. See the Undergraduate Secretary for specific concentration information.

3. *Human Development Specialty:* Some undergraduate psychology majors may elect to emphasize training in human development. This specialty is designed for students whose career goals involve physical or occupational therapy, infant mental health, provision and administration of day care, work with specific groups such as teenage parents, or other programs that serve infants, adults, children, adolescents, the aged, and their families. This specialty can provide an excellent background either for employment at the bachelor's degree level, or for the pursuit of a graduate degree in psychology or other human service professions. In addition to degree requirements, suggested courses include: PSY 2400, 3430, 3440, 3460, 3480, 3490 or 5490, 4310, and 4990. See the Undergraduate Secretary for specific concentration information.

Minor in Psychology

All students considering psychology as a minor field of concentration must 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.

Non-majors are encouraged to consult with departmental advisers regarding optimum course selections for various purposes.

Financial Aid

See Office of Scholarships and Financial Aid, page 21.

The McGregor Clinical Psychology Loan Fund makes loans available to qualified students in this specialty. Contact The Office of Scholarships and Financial Aid for information.

UNDERGRADUATE COURSES (PSY)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

1010. (LS) Introductory Psychology. Cr. 4
Meets General Education Laboratory Requirement. Research participation required. 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. Research participation required. Principles, theories and applications of psychological knowledge. (T)

2080. Introduction to Drugs, Behavior, and Society. Cr. 3
Introduction to drugs and their actions. Emphasis on psychoactive drugs, their effects, and the consequences of their use and misuse to the individual and society. (Y)

2300. Psychology of Adjustment. Cr. 4
Prereq: PSY 1010 or 1020. Processes involved in the interaction of individuals with their personal and social environments. Psychological methods for dealing with everyday problems, coping with anxiety, and achieving personal growth. (T)

2400. Developmental Psychology. Cr. 4
Prereq: PSY 1010 or 1020. Facts, principles, theories of psychological development. Development of intellectual, emotional, perceptual, linguistic, and social behavior. Developmental trends. (T)

2410. Human Development and Health. Cr. 3
Not for psychology major credit. Life span development from a bio-psycho-social perspective; applied aspects of development and family interaction research. Primarily for students in allied health professions. (Y)

2420. Applied Human Development: Laboratory. Cr. 2
Prereq: satisfactory health record; TB test within last six months. Open only to physical therapy students. Direct participation in infant and toddler care within the center setting; observation of parent-toddler interaction. (B)

2440. Applied Human Development: Childhood. Cr. 4
Prereq: PSY 2400; satisfactory health record and TB test within last six months. Growth and development of the child, age 2–1/2 to 5; methods of care and guidance in a group setting; student participation four hours per week in day care center. (B)

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; prereq. or coreq: 3040. Material fee as indicated in *Schedule of Classes*. Laboratory investigations of basic perceptual phenomena. (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; prereq. or coreq: 3060. Material fee as indicated in *Schedule of Classes*. Laboratory investigations of basic learning processes, including sensory and motor learning and complex learning processes. (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; prereq. or coreq: 3080. Material fee as indicated in *Schedule of Classes*. Laboratory investigations of cognitive processes, including attention, memory, language processing and problem solving. (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)
- 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)
- 3370. Community Psychology. Cr. 3**
Prereq: PSY 1010. Overview of the field of community psychology, including ecological perspectives, prevention, mutual help groups, paraprofessional helping, consultation, deinstitutionalization, homelessness, and methods of social change. (Y)
- 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)
- 3440. Psychology of Child Behavior and Development. Cr. 3**
Prereq: PSY 2400. Developmental processes in childhood; language acquisition, cognitive development, development of peer-peer interactions. (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 developmental 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)
- 4010. Points of View in Modern Psychology. Cr. 3**
Prereq: PSY 1010 or 1020. Major systems of psychology, including the influence of scientific thought from other disciplines and countries on models in psychology. (I)
- 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. Introduction to Psychological Tests. Cr. 3**
Prereq: PSY 1010 or 1020. Typical tests widely used. Problems involved in choosing appropriate tests, elementary methods of presenting test data, reliability and validity, calculation and interpretation, evaluation of test content. Test construction. (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 honors majors in psychology. Pre-seminar leading to the design and execution of a senior honors thesis in psychology. (Y)
- 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)

5060. Laboratory in Physiological Psychology. Cr. 3

Prereq: PSY 3120 or 5050 or consent of instructor. Material fee as indicated in *Schedule of Classes*. Outline of gross neuroanatomy, basic experiments in physiological psychology utilizing brain lesions, chronic electrode implantations in small animals, and measurement of human autonomic responses. (Y)

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 neurotransmitters, psychopharmacology, and substance abuse disorders. (Y)

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. (I)

5280. Psychoanalytic Theory. Cr. 3

Prereq: three courses in psychology. Theories, principles, concepts and applications as developed by Freud and his followers in contemporary times. (I)

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. (Y)

5540. Motivation in the World of Work. Cr. 3

Prereq: PSY 1010 or 1020 and junior or senior standing or consent of instructor. Relationships among motivation, satisfaction, and organizational behavior. Motivational theory and research; organizational influences on motivation and satisfaction; motivational intervention; survey and evaluation. (Y)

5580. Consumer Psychology. Cr. 3

Prereq: PSY 1010 or 1020; junior, senior or graduate standing. Applications of psychological and general behavioral science principles to understanding consumer and buying behavior; research design, sampling, and data collection techniques of use to marketers and consumerists. (Y)

5630. Group Dynamics. Cr. 3

Prereq: PSY 2600 or consent of instructor. Historical and theoretical development of the "group dynamics" movement and contemporary approaches to conceptualization of small group processes. Communication and power structures, group problem solving, intra- and inter-group conflict and cooperation. (Y)

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. (B)

5710. (PCS 5000) Dispute Resolution. (CRJ 5990)(P S 5890). Cr. 3

Overview of the processes and sectors in the field of dispute resolution including negotiation, mediation, arbitration, and conciliation. (Y)

5750. Engineering Psychology. Cr. 3

Prereq: PSY 3050, 3090, graduate standing; or consent of instructor. Theory and research on people's interaction with machines and systems in their environment, within framework of cognitive psychology. Product design and skilled performance. (B)

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. (T)

6200. Development of Memory. (LIN 6200). Cr. 3

Prereq: PSY 3090 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. (I)

6420. Psychology of Infant Behavior and Development. Cr. 3

Undergrad. prereq: PSY 2400 and either 2430 or 2440. Not open to psychology doctoral students. Prenatal development and infancy through the toddler years. Major theoretical positions and research relating to motor, perceptual, cognitive, language, social, and emotional development. Implications for parenting, programming, and care. (Y)

6440. Psychological Development in Childhood. Cr. 3

Prereq: one course in developmental psychology. Not open to psychology doctoral students. Theories of development applied to understanding cognitive, social, and emotional changes in childhood. Empirical tests of these theoretical perspectives examined; research paper required. (Y)

6470. Human Development Practicum: Infancy. Cr. 3

Prereq: satisfactory health record. Orientation to infant research, assessment, and programming. Experience in infant observation and testing within the Psychology Child Development Laboratory. (I)

6480. Psychology of Myth, Magic and Religious Experience. Cr. 3

Prereq: PSY 1010, 2400, or consent of instructor. Theoretical and empirical literature on psychological origins and adaptive functions of myth, magic, and religious experiences in individuals and social groups, both historical and modern. (Y)

6490. Developmental Psychology of Death, Dying and Lethal Behavior. Cr. 3

Prereq: PSY 1010 or 1020. Changing relationship to death and finitude throughout the life-cycle; development and function of death cognitions, factors predisposing toward suicide and other premature deaths at various age levels, and the dying process. (Y)

6530. Organizational Psychology. Cr. 3

Prereq: PSY 3500 or 2600, or graduate standing or written consent of instructor. Application of principles of social psychology to industrial phenomena. Parameters of organization and criteria of effectiveness: profitability, morality. Classical theories of organization. Power, interaction, conflict, and decision theory applied to industrial corporations and unions. (Y)

6540. Organizational Staffing. Cr. 3

Prereq: PSY 3500 or equivalent industrial/organizational psychology course with consent of instructor. Not open to psychology doctoral students. Job analysis, recruitment and screening, prediction and measurement of job performance, selection procedures, principles and methods of testing and measurement. (Y)

6550. Training and Employee Development. Cr. 3

Prereq: PSY 3500 or equivalent industrial/organizational psychology course with consent of instructor. Not open to psychology doctoral students. Theory and practice of organizational training, employee development, and management development; establishment of performance standards, performance appeal process, evaluation of training and development programs. (Y)

6570. Applied Research Methods in Union-Management Relations. Cr. 3

Prereq: one semester of statistics comparable to ECO 5100, FBE 5400, FBE 6090, or PSY 4100. Not open to psychology graduate students. Topics include review of scientific methods and research design, measurement issues, ethical considerations in applied research and data collection techniques such as job analysis, training needs assessment, and opinion surveys. (Y)

6710. Psycholinguistics. (LIN 6710). Cr. 3

Prereq: graduate standing or undergraduates with a strong psychology or linguistics background. Theory and research in various topics in psycholinguistics, including language development, speech perception and production, and language comprehension and memory, discussed within the framework of the behaviorist, generative linguistic and information processing approaches to language. (Y)

6995. Advanced Special Topics. Cr. 1-3(Max. 6)

Prereq: senior standing; psychology major with 3.0 h.p.a. or honors program seniors. Topics to be announced in *Schedule of Classes*. (Y)



STATISTICS

In addition to the interdepartmental course described on this page, several specialized advanced courses in statistics are offered by individual departments:

- ECO 4100 —Economics and Business Statistics
- ECO 5100 —Introductory Statistics and Econometrics
- ECO 6100 —Introduction to Econometrics
- ECO 7100 —Econometrics I
- ECO 7110 —Econometrics II
- MAT 2210 —Elementary Probability and Statistics
- MAT 5700 —Introduction to Probability Theory
- MAT 5820—Statistics I
- MAT 5830 —Applied Time Series
- MAT 6830 —Design of Experiments
- MAT 7700 —Advanced Probability Theory I
- MAT 7710 —Advanced Probability Theory II
- MAT 7800—Statistics II
- MAT 7870 —Topics in Statistics
- PSY 3010 —Statistical Methods in Psychology

For descriptions of these courses and others, see the respective departmental sections of this bulletin.

UNDERGRADUATE COURSE (STA)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99*. In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

For interpretation of numbering system, signs and abbreviations, see page 487.

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. Student computer account required. Descriptive statistics, correlation and regression, notions in probability, binomial and normal distributions, testing hypothesis. (T)

SCHOOL OF SOCIAL WORK

DEAN: Leon W. Chestang

Foreword

Social Work

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, 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, which 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, homophobia, unemployment, and those with emotional disturbances, or physical and/or developmental challenges. 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 degree and the graduate program leading to the Master of Social Work 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 for social work practice.

Individual courses are 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 community practice and social action; family, children and youth services; health care services; mental health services; and occupational social work. The School conducts special institutes and workshops for persons working in the field of social welfare. Continuing education in social work is offered also through the College of Lifelong Learning.

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*

SCHOOL OF SOCIAL WORK DIRECTORY

Dean 201 Thompson Home; Telephone: 577-4400
Fax: 577-6555

Associate Dean 240 Thompson Home; Telephone: 577-4404
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 B.S.W. Program
236 Thompson Home; Telephone: 577-4433

Coordinator of the M.S.W. 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

Mailing address for all offices: School of Social Work, Wayne State University, Detroit, Michigan 48202.

* For specific requirements, consult the Wayne State University Graduate Bulletin.

FACULTY and ADMINISTRATION

Dean: Leon W. Chestang
Associate Dean: Phyllis I. Vroom
Director of Admissions: Cecille Y. Dumbrigue
Academic Services Officer: Janet M. Clerk
Academic Adviser: Anwar Najor-Durack
Business Manager: Edrene R. Teahan

Professors

Creigs C. Beverly, Leon W. Chestang

Associate Professors

Arthur E. Antisdell, Beverly Black, Jerrold Brandell, Alison Favorini, Bruce Friedman, Ronald L. Jirovec, Alice E. Lamont, Brenda McGadney, David P. Moxley, Carolyn B. Pryor, Melvyn C. Raider, Sue M. Smock, Mavis M. Spencer, Zulema Suarez, Eileen Trzcinski, Phyllis I. Vroom, Susan Whitelaw-Downs

Assistant Professors

Ann Alvarez, Donna Cochran, Christine Hyduk, Hartford Smith, Jr., James Tripp (clinical), Arlene Weisz, Annette Woodroffe

Lecturers

Charlla Allen, Roxanne Barzone, Margaret O. Brunhofer, Laura Daniel, Lois J. Garrriott, Anna Genus, Loren Hoffman, Sally Jo Large

Emeriti Professors

Sidney Dillick, Joseph P. Hourihan, Charles N. Lebeaux, Leon Lucas, Maryann Mahaffey, Betty Rusnack, Kurt Spitzer, Betty L. Welsh

Emeriti Associate Professors

Helen Francis, Theodore Goldberg, Edna S. Harrison, Carl Hartman, Aaron Krasner, Edna P. Miller, Elizabeth J. Phillips, Lois L. Quig, Marian I. Reavey, Sandy G. Reid

Adjunct Faculty

C. Patrick Babcock, Paul A. Koonter, Thomas D. Watkins Jr., Robert H. Wills

BACHELOR OF SOCIAL WORK

The Bachelor of Social Work degree program prepares for entry level 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. The School offers admission to the Bachelor of Social Work degree program each Fall Term to students who wish to attend classes at the Macomb University Center located on the Macomb Community College Center Campus. A limited number of students are admitted in January to the full-time on-campus program leading to the degree of Bachelor of Social Work, beginning in the winter semester; it continues, without interruption, for four consecutive semesters, including the spring-summer semester. January admission leads to graduation in May of the following year.

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 credits in course work or its 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 honor point average of 2.6; (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. Priority deadlines for submission of initial and all supporting materials for September and January admission are February 28 and August 31, respectively. Students wishing to enroll in the Bachelor of Social Work degree program offered at the Macomb University Center may apply for September admission only. Applications received after the closing date cannot be guaranteed processing. 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.

Transfer of Undergraduate Credit: No more than sixty-four semester credits from two-year colleges may be used toward the B.S.W. 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 15 of this Bulletin for the University transfer policy.

Withdrawal from the B.S.W. and M.S.W. Programs

A student who has been admitted to the Bachelor of Social Work or the Master of Social Work degree programs shall be considered to have withdrawn from the program if the student is not enrolled in a course and/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.

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 pages 26-36.

The two patterns outlined below are available through the College of Liberal Arts and the Interdisciplinary Studies Program of the College of Lifelong Learning, 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 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 pages 26-36.

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—3 credits (Principles of Macroeconomics, ECO 2020, recommended)
3. (HS) History—3 credits (Not 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 subject 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 adviser.

Pattern B (College of Lifelong Learning)

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 pages 26-36.

A. Social Sciences: The following distribution of courses is required.

	<i>credits</i>
1. GSS 2710 — (SS) Selected Perspectives on Ethnicity	4
2. GSS 2720 — Culture, Community, and Identity: Faces of Culture	3
3. AGS 3480 — (SS) Theoretical and Practical Analysis of Work Organizations	4
4. GSS 1510 or AGS 3420	
— (AI) American Political Development	4
— (AI) The American Constitution and the Judicial System	4
5. Economics 2020— (SS) Principles of Macroeconomics	3

B. Natural Sciences: The following distribution of courses is required.

1. GST 2010 — Health Concepts and Strategies	3
2. GST 2020 — Changing Life on Earth	3
3. GST 2310 — (LS) Living in the Environment	4
4. GST 2420 — (PS) Atoms and Stars	3
5. Two courses in Psychology (a course in developmental psychology is required)	6-8

C. Humanities: The following distribution of courses is required.

1. GUH 2710 — (PL) Art and Aesthetics: Literature and Philosophy	4
2. GUH 2730— (VP) Meaning in the Visual and Performing Arts	3

D. English: The following distribution of courses is required.

1. GIS 1510 — (BC) Written Communication Skills	4
2. English (IC) elective, 2000 level or above	3

E. Basic Speech:

1. GIS 1560 — (OC) Dimensions of Oral Communication	4
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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 adviser.

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-one credits in field work and related courses and a minimum of nineteen credits in corequisite and elective courses (see below).

Honor Point Average: To be awarded a Bachelor of Social Work degree, the student must achieve a cumulative honor point average of 2.0, and an honor point average of 2.0 during the junior and senior year. 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 26; and consult an undergraduate adviser regarding the pre-Social Work pattern and General Education courses.

Curricula

The undergraduate social work curriculum is structured to provide the knowledge, values and skills essential for entry level 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. 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, statistics, 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 Academic Services Officer, and to update the plan periodically.

REQUIRED PROFESSIONAL CONTENT

Junior Year

<i>First Semester</i>	<i>credits</i>
S W 3010—Social Work Practice Method I	2
S W 3510—Human Development and Dysfunction	3
S W 3710—Social Welfare & the Social Work Profession: History, Trends & Basic Concepts	2

Second Semester

S W 3020—Social Work Practice Method II	3
S W 3610—Organizational and Community Change	2
S W 4998—Field Practice in Social Work	5

Senior Year

First Semester

S W 4010—Social Work Practice Method III	3
S W 4710—Social Welfare in the United States: Current Programs	2
S W 4810—Research Methods for Social Workers	3
S W 4998—Field Practice in Social Work	5

Second Semester

S W 4020—Social Work Practice Method IV	2
S W 4520—Social Functioning and the Effect of Stress	2
S W 4970—(W) Integrative Seminar in Social Work	2
S W 4998—Field Practice in Social Work	5

GENERAL EDUCATION COREQUISITES AND ELECTIVES

Corequisites: The corequisites for the program during the junior and senior years must be distributed as follows:

- Anthropology 3110—3 credits.
- History 1300—3 credits, to be taken no later than the second semester, junior year.
- Statistics 1020—3 credits, to be taken no later than the second semester, junior year.

Electives: Electives must be selected in consultation with the Academic Services Officer.

UNDERGRADUATE COURSES (S W)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.)—*except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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. 2
Prereq: junior standing; admission to the BSW program. First of four courses providing knowledge, skills and framework for entry level generalist practice: social work purposes, functions, focus, values; problem-solving process; principles of observation, interpersonal relationships and communication; emphasis on worker-client interactions during the beginning phases of service. (F,W)

3020. Social Work Practice Method II. Cr. 3
Prereq: S W 3010; coreq: 4980. 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)

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. 2
Prereq: junior standing; admission to BSW program. Examination of social networks, neighborhoods, interorganizational and organizational behavior within a social work framework; study of change processes within these human communities. (W,S)

3710. Social Welfare and the Social Work Profession: History, Trends and Basic Concepts. Cr. 2
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)

4010. Social Work Practice Method III. Cr. 3
Prereq: S W 3020; coreq: 4980. 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. 2
Prereq: S W 4010; coreq: 4980. Continuation of four-course sequence. Utilization of systems and problem-solving approaches to plan for and apply appropriate social work interventions with emphasis on service delivery and change within complex organizations such as agencies, neighborhoods, and communities. Focus on the integration of a generalist model of practice. (F)

4520. Social Functioning and the Effect of Stress. Cr. 2
Prereq: S W 3510; coreq: 4980. Examination of stress as an outcome of maladaptive exchanges between persons and their environments, with emphasis on three interrelated areas: life transitions, unresponsive environments, communication and relationship problems. (W)

4710. Social Welfare in the United States: Current Programs. Cr. 2
Prereq: S W 3710; coreq: 4980. Description and analysis of major social welfare programs in the United States. (F)

4810. Research Methods for Social Workers. Cr. 2–3
Prereq: one course in elementary statistics; coreq: S W 4980. Basic concepts of research and its utilization; problem formulation, research design, description and analysis of research studies. (F)

4990. Directed Study. Cr. 1–4(Max. 4)
Prereq: consent of adviser and authorization of the Dean. Individual direction in reading and research on selected topics. (T)

4997. (W) Integrative Seminar in Social Work. Cr. 2
Prereq: S W 4010; coreq: 4980, 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. Cr. 1–11
Coreq: one course in social work practice method. Minimum of 15 credits must be taken over not less than 3 semesters; open only to junior and senior 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 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)

5880. (SOC 5880) Family Violence: Intervention. 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)

6440. (SOC 6440) Urban Family Intervention. Cr. 1
Prereq. or coreq: SOC 6430. Open to PACT students; others by consent of instructor. Application of theory and practice technique in the helping process of urban, minority families in poverty. (Y)

6460. (SOC 6460) Family-Based Intervention Techniques. Cr. 4
Open to PACT students; others by consent of instructor. Appropriate theories and strategies for working with families on an in-home basis to change family interaction, child-rearing patterns, health practices and management behavior. Focus on high-risk, urban families. (Y)

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)

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 Work Place. Cr. 2
The nature and causes of occupational stress and other work-related behavior; existing and needed social work services in work settings, 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)

6720. Social Services in Schools. Cr. 2

Structure and history of education in relation to social work and school social work practice; implications of current legislation; the roles of social work in relation to emerging patterns of education; trends and issues and implications for practice. (F,S)

6991. Special Topics. Cr. 2-4

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 Academic Services Officer. The primary responsibility rests with the student. All students are urged to file a plan of work with the Academic Services Officer, and to update the plan periodically. Electives should be selected in consultation with the 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.

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 instructor or his or her secretary prior to the class session, if possible, when the student may be absent 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 the class or field practicum may have an adverse effect on the student's grade.

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 study in the School of Social Work should plan a program in consultation with the adviser, 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 4998, Field Practice in Social Work, 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 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 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 Records Office of the University 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 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 are evaluated by the University Office of Scholarships and Financial Aid based on financial need as reflected in the information provided by the students and/or their families on the appropriate form. All requests for applications should be sent to the Office of Scholarships and Financial Aid, Wayne State University. 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 21) 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 his or her 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: *March 1* for summer M.S.W. students in advanced standing; *April 30* for B.S.W. students admitted for the fall term; *November 30* for B.S.W. students admitted for the winter term.

Edith N. Brehler Memorial Scholarship. Manuscript competition. Students submit a twelve- to fifteen-page paper on social work values and practice to be judged by a panel of faculty and students.

Fred and Freda Gentsch Scholarship. Award of variable amount, based on merit and financial need.

School of Social Work Scholarship. Awarded on the basis of scholastic achievement, character, leadership, and financial need.

Mary Turner Scholarship. Award of variable amount, made to full-time female students on the basis of academic achievement and financial need.

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 student's 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.

A student newspaper, weekly meetings, participation on curriculum and policy committees of the School, social and recreational activities, 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 National Association of Black Social Work Students (NABSWS) is the School of Social Work chapter of the National Association of Black Social Workers. The Association 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 Detroit Chapter of the National Association of Black Social Workers (NABSWS) in sponsoring forums, luncheons, conventions and fund raising events, as well as a schedule of social and leisure time activities.

Student Organization of Latino/a Social Workers (S.O.L.A.S.W.)

The Student Organization of Latino/a Social Workers (S.O.L.A.S.W.) is the organization of students at the School of Social Work who are interested in Hispanic affairs. The objectives of S.O.L.A.S.W. are 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 an Hispanic-related student forum in the University community. Membership in S.O.L.A.S.W. is open to Hispanic and non-Hispanic students.

Special Interest Groups

Each year there are students with special interests who organize themselves into student activity groups around their interests: Arab/Chaldean student group, 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 which 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 Association'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 1995-96:

ADULT WELL BEING SERVICES: Mary Neff, Karen Oldham

AGAPE HOUSE: Arthur Antisdel

AIDS PARTNERSHIP MICHIGAN: H.C. Millbourne, Emily Nadeau

ALLEN PARK PUBLIC SCHOOLS: Noreen Brohi, Carol Sheppard

AMERICAN RED CROSS: Dorthaer Norwood

ASSOCIATION FOR RETARDED CITIZENS SERVICES OF MACOMB: Ann Fenwick

AURORA COMMUNITY PROGRAMS: Cindy Kohler, Glen W. Whaley

BARAT HUMAN SERVICES: Eileen Lauster, Yvonne Williams-Houilles

BAY HAVEN: Brian Luckey, Deborah Pratt

BAY MEDICAL CENTER: Jim Casey

BEACON DAY TREATMENT: Pat Mucha

BEAUMONT HOSPITAL: Linda Curdy-Bess, Sarajane Schaefer

BIG BROTHERS/BIG SISTERS: Joe Synkowski

BLACK FAMILY DEVELOPMENT: Pam Walker

BLACK UNITED FUND OF MICHIGAN, INC.: Brenda Rayford

BON SECOURS HOSPITAL: Joanne Denison

BONIFACE COMMUNITY ACTION CORPORATION: John Kosik, Diane Olson

BOTSFORD GENERAL HOSPITAL: Alma Skillon, Marita Smith

BOYS' REPUBLIC: Noreen Haggerty

BOYSVILLE OF MICHIGAN: Thomas Durussell-Weston

BRIGHTMOOR COMMUNITY CENTER: Peter Lisiecki

CAMP OAKLAND YOUTH PROGRAMS, INC.: Carol Teachworth

C.A.R.E.: Cathy Angelica

CAREGIVERS: Ladora Barnett, Leah Malone

CATHOLIC SERVICES OF MACOMB: Patricia Finn

CATHOLIC SOCIAL SERVICE — FLINT: Barbara Jubar

CENTER FOR HUMAN RESOURCES: Tom Pope

CHILDREN'S CENTER OF WAYNE COUNTY: Christine Carlson, Kris Henneman, Ted Lewis, Berta Morales, Ruth Ann Mrdjenovich

CHILDREN'S HOSPITAL OF MICHIGAN: David Allasia, Irma Casinova, Shirley Gray, Vicki Meyring, Mary Muller

CHIPPEWA VALLEY SCHOOLS: Charlene McGunn

CHRIST CHILD HOUSE, THE: Julia Winston

CHRISTIAN FAMILY SERVICE OF LAPEER COUNTY: Barbara Van Landeghem

CITY OF DETROIT FIRE DEPARTMENT: Ricardeau White

CLARKSTON COMMUNITY SCHOOLS: Jim Butzine

CLINTON VALLEY CENTER: Mary Bergman, Terri Cavanaugh, Dave Fleming, Elaine Goulet, Minga Jones, Peggy Kurz

COMMON GROUND: Marcy Haney

COMMUNITY CARE SERVICES: Keith Cornfield, John Schaupner

COMMUNITY HUMAN SERVICES, INC.: Mark Loush, Pamela Pitlanish

COMMUNITY OUTREACH PARTNERSHIP GRANT: Arthur Antisdel, Susan Whitelaw

COMMUNITY SERVICES OF OAKLAND: Angie Battani

COMMUNITY SOCIAL SERVICES OF MONROE COUNTY: Barry Eitel

COMMUNITY SOCIAL SERVICES OF OAKLAND COUNTY: Julie Faulbaum, Marsha Moran-Sacket

COMMUNITY SOCIAL SERVICES OF ST. CLAIR COUNTY: Kate Powell, Danni Spesser, Cindy Willey-King

COMMUNITY SOCIAL SERVICES OF WAYNE COUNTY: Charlie Geiger, Amy Lalewicz, Mary Nims, Gail Simpson, Randy Vorhees

CORNELL CENTER: Jane Diehl

COTTAGE HOSPITAL — HOSPICE: Diana Tomezak

CRESTWOOD SCHOOL DISTRICT: Barbara Speranza

DETROIT BOARD OF EDUCATION: Taj Edward, Diane Hurst, Harriet Kirk, Faustina Loper, Jacquelyn Marshall, Patricia Metz, David Sanderson, Vikkie Tucker

DETROIT CITY COUNCIL: Sara Gleicher

DETROIT HEALTH DEPARTMENT: Olivia Ramsey

DETROIT PSYCHIATRIC INSTITUTE: Katherine Gamma, Carrie Patterson, Elliot Rosen

DETROIT RECEIVING HOSPITAL/UNIVERSITY HEALTH CENTER: Cheri Dye, Lee Garvin, Linda Imel, Ken Kish, Paul Koonter, Marcia Mattiello, Jodi McGuire, Trenia Nelson, Andrea Stephens, Barbara Troy

DETROIT RIVERVIEW HOSPITAL: Hadrish Verma

DEVELOPMENT CENTERS, INC.: Claudia Blanchard, Lynn Ernst, Dr. Kathy Liesman, Steven S. Nims

DIVERSIFIED YOUTH SERVICES, INC.: Cassandra Bowers, Tonya Fleming, Toni Proby

DON BOSCO HALL: Cassandra Ivery, Eleanor Quails, Charles Small, Jo-Ann Woodard

DOWNRIVER GUIDANCE CLINIC: Cheryl Davis, Vivian McNear, Carol Oleksiak, Mark Small

DOWNTOWN SENIOR CITIZENS CENTER: Sandy
DelVillano-Marchi

DEPARTMENT OF SOCIAL SERVICES OF WAYNE COUNTY:
Valerie Larry

EASTWOOD COMMUNITY CLINICS: Steve Candela, Tammie
Glenn, Linda Gold, Chris Griffin-Fox, Mike Harbison, Don Healy,
Martha Lalka, Chris Morris, Rosalie Schwatz

EASTWOOD/OXFORD NETWORK OF CARE: Penny Sakis,
George Surowy

FAIRLANE COMMUNITY MENTAL HEALTH CENTER:
Cheryl Anderson-Smith, David Peradatto

FAIRLAWN CENTER: Ronald Baranski

FAMILY SERVICE OF DETROIT AND WAYNE COUNTY:
John Bowman, Johnnie McCray, Jo McNeil, Ramona Smith, Nancy
Stein, Sylvia Thompson

FARMINGTON AREA ADVISORY COUNCIL, INC.:
Carolyn Browning, Laurie McAdams, Shelly Rence

FARMINGTON PUBLIC SCHOOLS: Lenore Kingston

FERNDALE SCHOOLS: Toni Blyznuk

FIRST STEP: Judith Barr

FITZGERALD PUBLIC SCHOOLS: Michelle Edery, Polly Hardy

FRANKLIN-WRIGHT SETTLEMENTS, INC.: Shirley C. Flannigan

FRIENDS ALLIANCE: Henry Kronner

GENESSEE INTERMEDIATE SCHOOL DISTRICT: Jan Russel

GIRLSTOWN FOUNDATION, INC.: Mitchell Rosenzweig

GRACE HOSPITAL: Rosemary Bell, Barbara Tunstull

HARBOR, THE: Sally Currie

HARPER HOSPITAL: Betty Brown, Paul Halloway, Debra
McNamara, Nancy Nikols, Myrna Robinson, Elaine Rosenblat, Thad
Zaremba

HARPER WOODS SCHOOLS: Elizabeth Parravano

HAVEN: Barbara Domina, Claudia Nafsu, Renee Rathke, Margaret
Yellin

HEALTH MANAGEMENT SYSTEMS OF AMERICA: Anna M.
Cassar, Helaine Zack

HEGIRA PROGRAMS, INC.: Sharon Bogucki

HENRY FORD COTTAGE HOSPITAL: Durstyn Farnan

HENRY FORD HEALTH SYSTEMS: Camela Ayoub, D. Baldwin,
Larry Campbell, Thomas Ghena, Raya Goldenberg, Sylvia Oglesby

HENRY FORD HOME HEALTH CARE: Maria Hall, Karen Ruwoldt

HENRY FORD HOSPICE: Mary St. Clair

HENRY FORD HOSPITAL: Cindy Albright, Margaret Dimond,
Suzanne Hyama, Madelyne Markowitz, Terri Sahn-Silver, Sharon
Williams

HENRY FORD HOSPITAL — EAP: Pamela Theisen

HENRY FORD HOSPITAL — PSYCHIATRIC SERVICES:
Joan Bloom, Joan Ramonitis, Kathy Ransome, Nancy Penman

HENRY FORD MIDDLE SCHOOL: Anna Genus

HIGHLAND PARK SCHOOL DISTRICT: Odevia Brown

HOLY TRINITY SOCIAL SERVICES: Sister Annette Zipple

HOPE, UNITY & GROWTH (HUG): Maisha Kenyatta

HUNGER ACTION COALITION FOR SOUTHEAST MICHIGAN:
Nida Donar

I HAVE A DREAM FOUNDATION: Hartford Smith, Jim Tripp

INSIGHT RECOVERY CENTER: Peter N. Mason

INTERNATIONAL INSTITUTE: Valerie White

JEWISH FAMILY SERVICE: Carolyn Davidson, Shirley Jarcaig,
Judy Kotzen, Carol Plotkin, P. Schwartz, Mindi Silver-Weiss

JEWISH FEDERATION APARTMENTS: Joyce Bichler, Ellen
Kachalsky, Steve Popkin, Sandy Smith

JUDSON CENTER: Marn Myers

KADIMA: Janette Shallal

LAKE ORION COMMUNITY SCHOOLS: Janet Fox, Rosalyn
Mermell

LAPEER COUNTY COMMUNITY MENTAL HEALTH CENTER:
Lauren Emmons,

LULA BELLE STEWART CENTER: Marilyn Baum, Ruth
Brownstein, Orlean Jordan, Ethel Sutice

LUTHERAN CHILD AND FAMILY SERVICES — BAY CITY: Bill
Range, Mary-Lou Stewart

LUTHERAN CHILD AND FAMILY SERVICES OF MICHIGAN:
Kirk Bradford, Bonita Cobb, Mary Vostal, Patricia Walsh

LUTHERAN SOCIAL SERVICES OF MICHIGAN: Marion
McCarthy, Mary Lane

MACOMB COUNTY COMMUNITY MENTAL HEALTH: Linda Altes,
Carol Bartley, Sheila Fox, Keith Hoffman, George Stouter

MACOMB FAMILY SERVICES: Owen Pfaendtner

MACOMB HOSPITAL CENTER: Georgia Beltz, Wendy Panourgias

MACOMB INTERMEDIATE SCHOOLS: Nadine Lovell, Phyllis
O'Brien

MACOMB/OAKLAND REGIONAL CENTER: Debra Chandler, Gloria
Howze, John Newman, Dwight Stevens

MADISON COMMUNITY HOSPITAL: Elaine Baugh

MCLAREN HOSPICE SERVICES: Mary Lou Martin, Beth Riseman

MERCY HOSPITAL OF DETROIT: James Cass, Kim Gusse,
Claudia Rowland, Jane Savoy, Norman Wonoroff

MICHIGAN SUPPORTED EDUCATION RESEARCH PROJECT:
Phyllis Levine

MONROE COUNTY INTERMEDIATE SCHOOL DISTRICT: Faith
Anderson, Sheri Gearhart, Janet Schultz

NEW CENTER COMMUNITY MENTAL HEALTH SERVICES:
Sharon Worth

NORTH STAR COUNSELING: Rebecca Ehle

NORTHVILLE PSYCHIATRIC HOSPITAL: William Barnes, Sarah Cobb, Bernice Diop, Joan Faimot, Mary Guidobono, George Ripple, June Stupple

OAKLAND COUNTY CHILDREN'S VILLAGE: Clarence Kraft, Theresa Krolczyk, Patricia Lehar, Jody Overall

OAKLAND COUNTY COMMUNITY MENTAL HEALTH: Lori DePriest

OAKLAND COUNTY FRIEND OF THE COURT: Lorraine Osthaus, Judi Trombley

OAKLAND FAMILY SERVICES: Bonnie Daligga, Rosellen Loye, Beth Snyder

OAKLAND-LIVINGSTON HUMAN SERVICE AGENCY: Cecelia Lilliston

OAKWOOD HOME CARE SERVICES: Regina Vezzosi

OAKWOOD HOSPITAL: Kathleen Haack

OCCUPATIONAL HEALTH CENTERS OF AMERICA, INC.:
Michael Hamlin

ORCHARDS CHILDREN'S SERVICES: Dawn Brown, Trudy Fortino, Kathleen Ott, Bob Szostak

OXFORD AREA COMMUNITY SCHOOLS: Anthony Bronzo, Fern Fosgate

PARENTS AND CHILDREN TOGETHER (P.A.C.T.):
Perry Ohren, Anne Thomas

PONTIAC AREA TRANSITIONAL HOUSING: Wanda Sandifer

PONTIAC SCHOOL DISTRICT: Adela Camerena, John Lusk, Sue Welcome, Jessica Woods

PORT HURON HOSPITAL: Patti Sullivan

PROFESSIONAL COUNSELING CENTER: Regina Friedmann

PROSPECT PLACE FAMILY SHELTER: Cathy Witt

RAPE COUNSELING CENTER: Mattie Glover, Althea Grant

REHABILITATION INSTITUTE OF MICHIGAN: Patrick Donnellon

RENAISSANCE HOME HEALTH CARE, INC.: Sandra Gross

RESIDENTIAL CARE ALTERNATIVES, INC.: Altona Rone, Ann Shelly

RICHMOND COMMUNITY SCHOOLS: Leah Scheuer

ROYAL OAK SCHOOLS: Nancy Adair, Dayle Prinstein

SAGINAW GENERAL HOSPITAL: Arletta Kushion

ST. CLAIR COUNTY COMMUNITY MENTAL HEALTH:
Sandra Kammer, Denise Lesinski, Tim Wittstock

ST. CLAIR COUNTY DEPARTMENT OF SOCIAL SERVICES:
Ivan Benedict, Elaine Flowers

ST. JOHN HOME HEALTH CARE SERVICES: Mitzi Hoffman

ST. JOSEPH MERCY HOSPITAL: Sally Beane, Dave Moore, Denise Phillips, Kathleen Strader, Lawrence Voight, Diane Witt

ST. VINCENT/SARAH FISHER CENTER: Victoria Schreiber

SALVATION ARMY HARBOR LIGHT: Michael Wolf-Branigin

SANCTUARY, THE: Barbara Broesamle, Ann Serra

SHUMARD COUNSELING, P.C.: Barbara Shumard

SINAI HOSPITAL: Susan Billings, Michelle Dombrowski, Rena Glaser, Rose Hirsch, Deanne Lautner, Judy Nowinski, Susan Pununsk, Ramona Rukstele, Kenneth Sherman, Joanne Zussman

SOUTHFIELD PUBLIC SCHOOLS: Karen Weiner

SOUTHGATE COMMUNITY SCHOOL DISTRICT: Barbara Gniewek

SOUTHWEST DETROIT COMMUNITY MENTAL HEALTH: Lorna Deiter, Bob O'Brien, Thom Stark, Graciela Villalobos, Luz Marina Zinga

SUBURBAN WEST COMMUNITY MENTAL HEALTH: Joan Staal, Henrietta Warren

TAYLOR SCHOOLS: Pat Collins

TRAINING AND TREATMENT INNOVATIONS, INC.: Jeffrey Creech, Jean Pfaendtner

TUSCOLA INTERMEDIATE SCHOOL DISTRICT: Rebecca Ducham

UNIVERSITY COUNSELING AND PLACEMENT SERVICES: Amy McCollum

UNIVERSITY MIDDLE SCHOOL — FORDHAM PROJECT:
Roxanne Barzone

UNIVERSITY PSYCHIATRIC CENTER: Lynn Margolis

UPWARD BOUND: Marlene Harper

UTICA COMMUNITY SCHOOLS: Pat McKinnon, Bev Solomon

VETERANS' ADMINISTRATION MEDICAL CENTER —
ANN ARBOR: Roderick Fitch, Shelly Wagner

VETERANS' ADMINISTRATION MEDICAL CENTER —
DETROIT: Olivia Stallings

VAN DYKE SCHOOLS: Joe Fedorczyk, Mary Reilly

VANTAGE POINT/NLC: Linda Woodward

VISITING NURSES ASSOCIATION OF FLINT: Nan Rahn

VISITING NURSES ASSOCIATION OF SOUTHEAST MICHIGAN:
Stephanie Dennis, Judith Lewis, Liz Snyder

VISTA MARIA: Candice Kidd

WALLED LAKE SCHOOLS: Cheryl Abel

WALTER P. REUTHER PSYCHIATRIC HOSPITAL: Joyce Skinner

WATERFORD SCHOOL DISTRICT: Kim Foo

WAYNE CENTER: Cheryl Betz, Susan Erspamer, Julie Kirby, Mark Mitchell, Cheryl Morris

WAYNE COUNTY JUVENILE DETENTION FACILITY: Janice Pearson

WAYNE COUNTY NEIGHBORHOOD LEGAL SERVICES: Gregory Murray

WAYNE STATE UNIVERSITY — DEVELOPMENTAL DISABILITIES INSTITUTE: Karen Wolf-Branigin

WEDGEWOOD ACRES:
Judith Walton

WESTLAND COUNSELING CENTER: Doreen Lightner

WESTSIDE MENTAL HEALTH SERVICES: Loren Hoffman

WESTWOOD COMMUNITY SCHOOL DISTRICT: Michael Nathan

WOLVERINE HUMAN SERVICES: Tom Krolicki, Kathleen Neuman

WOMEN'S JUSTICE CENTER: Norma Tucker

WYANDOTTE HOSPITAL/MEDICAL CENTER: Wendy Lyon, Kristin Schaeffer, Elizabeth Smith

YMCA OF METRO DETROIT: Rick Crawford

YOUTH LIVING CENTERS: Paul A. Dube

YWCA/INTERIM HOUSE: Mary Lu Lewis

**COLLEGE OF URBAN,
LABOR, and METROPOLITAN AFFAIRS**

DEAN: Sue Marx Smock

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 is designated to include the Center for Chicano-Boricua Studies; the Labor Studies Center; the Center for Urban Studies; the Department of Geography and Urban Planning; the Master of Arts in Industrial Relations (MAIR) program; the Center for Peace and Conflict Studies; the Archives of Labor and Urban Affairs; and the University's Urban Professorship Program.

The College is responsible for the administration of the graduate programs in Geography, Industrial Relations, Urban Planning; and Dispute Resolution; the Bachelor of Arts in Labor Studies; the Graduate 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 the Dean, College of Urban, Labor, and Metropolitan Affairs, 3198 Faculty Administration Building; 577-5071.

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 Congress 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*.

Industrial Relations

Office: 1262 Faculty Administration Building; 577-4380
Interim Director: William Cooke

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 Programs

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 256.)

**MASTER OF ARTS with a major in geography*

**MASTER OF ARTS in Dispute Resolution*

**MASTER OF ARTS in Industrial Relations*

**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, consult 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 26) and the College of Liberal Arts Group Requirements (see page 217). 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 30.

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, pages 27-30.

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 majors 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 the Dean, 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 interruptions 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.

—*Weekend College (College of Lifelong Learning):* 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 group or major requirements.

—*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 an honor 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:

Areas	maximum degree credit
Dance (approved courses)	16
Health	8
Applied Music (including the limitation stated in the paragraph below)	16
Physical Education (approved courses)	4

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
MUA 2810	University Symphony Orchestra
MUA 2820	Jazz Lab Band
MUA 2830	Men's Glee Club
MUA 2840	Choral Union
MUA 2850	Concert Chorale
MUA 2870	Women's Chorale
MUA 2880	Chamber Music and Special Ensembles
SPR 2670	Radio-Television-Film Laboratory
SPC 2240	Forensics Practicum

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) honor 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.

Honor Point Average

All students are required to maintain an over-all honor point average of C (2.0) for all degree work elected. See 'Honor Point Average' in the General Information section of this Bulletin, page 44.

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 recently initiated an Undergraduate Student Exchange in Urban Affairs with the University of Salford, England. Students in good academic standing in any college or program 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 h.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 225; 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 honor point averages at Wayne State University fall within approximately the upper 5%, the next 5% and the next 10% of the senior class, respectively. The honor points used to identify the lower limits for each designation will be based upon the honor 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 Honor Point Average: Student's whose honor point average falls below 2.0 will be placed on academic probation. If serious honor 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 Honor Point: Students on academic probation who incur serious deficiencies or fail to raise their honor 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 the Dean.

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 OF THE COLLEGE

Office of the Dean

Dean: Sue Marx Smock
Associate Dean: Robin Boyle
Assistant Dean: Carlton Maley
Academic Services Officer: Linda Johnson
Business Manager: Mary Serowik
3198 Faculty/Administration Building 577-5071
Fax: 577-8800

Archives of Labor and Urban Affairs

Director: Les Hough
Associate Director: Patrice Merritt
231 Reuther Library 577-4003

Center for Chicano-Boricua Studies

Director: Jose Cuello
Assistant Director: Diana Rosario
3324 Faculty/Administration Building 577-4378

Center for Peace and Conflict Studies

Director: Fred Pearson
2319 Faculty/Administration Building 577-3453

Center for Urban Studies

Director: Diane R. Brown
3043 Faculty/Administration Building 577-2208

Dispute Resolution

Interim Director: Fred Pearson
2319 Faculty/Administration Building 577-3453

Geography and Urban Planning

Chairperson: Gary Sands
225 State Hall 577-2701

Industrial Relations

Interim Director: William N. Cooke
Assistant to the Director: William McKether
1262 Faculty/Administration Building 577-4380

Labor Studies Center

Director: Hal Stack
3168 Faculty/Administration Building 577-2191

Skillman Center for Children

Administrator: Ernestine Moore
3198 Faculty/Administration Building 577-5225

Faculty of Urban and Labor Studies

Professors

Timothy M. Bates, William N. Cooke, Philip P. Mason, Harold L. Wolman

Associate Professors

Michael Goldfield, Thomas F. Reed, Thomas L. Thompson

University Professors

Irving Bluestone, Douglas Fraser, Ernest Savoie,
Coleman A. Young
253 Reuther Library 577-5196

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: 3324 Faculty Administration Building; 577-4378
Fax: 577-1274/8800

Director: Jose Cuello

Assistant Director for Recruitment and Retention: Diana Rosario

Assistant Professor

Jorge L. China

The Center for Chicano-Boricua Studies (CBS) is a multi-service unit which plays an important part in the University's urban mission. The Center's primary role is the recruitment of Latino students into Wayne State University and the academic development and retention of these students. The Center is the home department for a number of courses in history, literature and culture, and anthropology that are cross-listed with the appropriate departments. The center has complementary missions in advocacy for the Latino perspective within the University, outreach to the metropolitan community, and research on Latin American and U.S. Latino issues. The Center's multiple missions and its one-stop student services program makes it unique in the nation.

Student Success Program

The Center's two-year Student Success Program in academic skills and student retention is designed to develop a solid intellectual and motivational foundation for success in college and to heighten consciousness of Latino and Latin American cultures. The program entails in-depth counseling and advising which tracks each student through graduation. Students enter one of three academic tracks (basic, advanced, or science), depending on their preparation and interests. Subjects and topics of courses include: English, mathematics, computer science, critical thinking, history, literature, and speech. All courses (with the exception of skill-building courses, for students who need them) count toward graduation, and many also fulfill University General Education Requirements.

Admission to the Student Success Program: Requirements include submission of an official Application for Undergraduate Admission, a minimum high school honor point average of 2.0 and scores of at least 15 on the ACT Reading, English, and Composite sections. Consult a Center counselor for complete admission requirements to the Student Success Program.

Co-Major in Chicano-Boricua Studies

The Chicano-Boricua Studies Co-Major Program is an undergraduate, multi-disciplinary course of study designed to strengthen the career preparation of students who plan to work in a multi-ethnic urban setting. This program leads to a bachelor's degree with co-major designation. All students who have fulfilled the course requirements of the co-major program will receive this notation on their transcript.

Admission: Students may apply for acceptance to the Chicano-Boricua Studies Co-Major by submitting a *Declaration of Major Form* for approval at the beginning of their junior year. See page 461 for instructions on declaring a major.

CO-MAJOR REQUIREMENTS: The co-major requires completion of the following core courses and a minimum of eighteen credits in elective courses. Appropriate courses may be substituted for the core and elective courses listed below with the prior approval of the director.

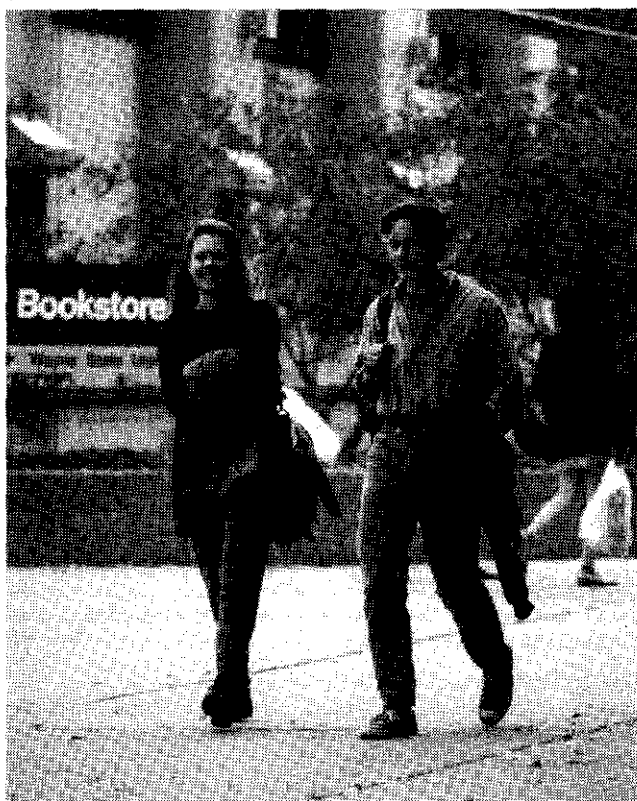
<i>Required Core Courses (fifteen credits)</i>	<i>credits</i>
CBS 2100 — Chicano Literature and Culture	3
CBS 2110 — Puerto Rican Literature and Culture	3
CBS 2410 — (FC) History of Mexico	3
CBS 2420 — (FC) History of Puerto Rico and Cuba	3
CBS 2430 — History of Latinos in the United States	3

<i>Elective Courses (eighteen credits)</i>	
ANT 3110 — Detroit Area Minorities: Arabs, Hispanics and African Americans	3
ANT 3540 — (FC) Cultures and Societies of Latin America	3
CBS 3510 — Precolumbian Mesoamerican Cultures	3
CBS 2120 — Latin American and Latina Women Writers	3
CBS 2450 — Latin America from Independence to the Present	3
HIS 3995 — Special Topics in History: Latin America	3-4
P S 5770 — Government and Politics of Latin America	4
SPA 3630 — Survey of Spanish American Literature	3
SPA 5560 — Spanish American Cultures and Their Traditions	3
SPA 6620 — The Spanish American Novel II	4

Scholarships

Latino En Marcha Scholarship: Students who are enrolled in the CBS Student Success Program (or who have completed the program) and who demonstrate financial need, academic merit, and service to the University or community may apply for a Latino En Marcha Scholarship each semester in amounts ranging from \$250 to \$1,000. Contact the Center for further information.

Latino Honors and Service Scholarship: Award open to Latino graduate and undergraduate students with cumulative Wayne State h.p.a. of 3.4 or higher, or who can document an average h.p.a. over the previous two semesters which is at least one full grade higher than that of the cumulative h.p.a. of the semester previous to this period; and who can document a history of community, public or university service. (This scholarship is offered only occasionally in special cases.)



UNDERGRADUATE COURSES (CBS)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

1410. Student Success Seminar. Cr. 1(Max. 2)

Prereq: consent of instructor. Open only to students in Chicano-Boricua program. Developing academic skills. (T)

2010. Introduction to Chicano-Boricua Studies. Cr. 3

Survey of social, economic and political problems and experiences of the Chicano and Puerto Rican communities in the United States. (I)

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)

2120. Latin American and Latina Women Writers. (SPA 2600). Cr. 3

Creative writings by Latin American and Latina women writers; feminist theory and literary criticism from throughout Latin America with comparison to Latina women's writings. (I)

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)

2450. Latin America from Independence to the Present. (HIS 1991). Cr. 3

Historical overview of modern and contemporary Latin America from early 1800s to the present. Themes include nation-formation, revolutions, nationalism, development/dependency, U.S. involvement. (Y)

3510. (ANT 5510) Precolombian Mesoamerican Cultures. Cr. 3

Prereq: ANT 2100 or consent of instructor, or CBS 2010. Survey of the history and characteristics of culture in Mesoamerica prior to colonization, from the Maya and Olmec to the Aztec. (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)



GEOGRAPHY and URBAN PLANNING

Office: 225 State Hall; 577-2701; Fax: 577-0022

Chairperson: Gary Sands

Professors

Robert M. Boyle, Fred E. Dohrs (Emeritus), Robert J. Goodman (Emeritus), George J. Honzatzko (Emeritus), Robert Sinclair, Alma H. Young

Associate Professors

Eugene D. Perle, Laura Reese, Gary Sands, Robert D. Swartz, Bryan Thompson

Assistant Professor

Susan Turner

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 locational 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. A voluntary internship program permits a limited number of credits for on-the-job experience.

The profession of urban planning takes major responsibility in the development of comprehensive plans and programs for local communities as well as larger regional units. These plans visualize future conditions of social, economic, and physical change, and provide an estimate of the community's long-range needs for various facilities and services. Professional urban planners perform a variety of tasks such as developing plans for housing, transportation, rehabilitation of blighted metropolitan areas, and improving the appearance and efficiency of communities. The program seeks to prepare individuals for working with local community planning agencies and regional groups.

Undergraduate degrees in geography are offered by the College of Liberal Arts (see page 256). Master's degree programs in geography and in urban planning are offered by the College of Urban, Labor and Metropolitan Affairs; full descriptions of these programs may be found in the Wayne State University Graduate Bulletin.

* For specific degree requirements, consult the Wayne State University Graduate Bulletin.

UNDERGRADUATE COURSES (U P)

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5010. Resources and Communication in Planning. Cr. 2
Introduction to the use of basic tools and techniques of professional planning practice, including data resources, computer applications, map and plan preparation, presentation techniques. (Y)

5100. Field Studies on Urban Problems. Cr. 2–4(Max. 6)
Field research on selected urban problems. Preparation of applied research report based on agency data, census data, or analyses of public documents. (Y)

5110. Urban Planning Process. Cr. 3–4
Scope and historical development of planning. Topics relevant to the practice of planning: theory, planning practice, social and physical development policy. (Y)

5210. (SOC 5500) Urban and Metropolitan Living. Cr. 3
Examination of the development and organization of urban living as it emerged from village to city to metropolitan regions. Consideration given to such topics as the causes of urbanization and its consequences for the ecological and social structure of the city, intergroup relations, crime and poverty in the city. (Y)

5310. Current Planning Practice. Cr. 3–4
Practical application of planning theory to current issues of planning and community development, including land use, economic development, and environmental concerns. (B)

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. (Y)

- 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. (B)
- 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, retail impact on urban land use; crime and commercial location; considerations for the elderly in commercial locations. (B)
- 5700. (GEG 5700) Urban Canada. (GPH 5700). Cr. 4**
Geographic introduction to Canada; emphasis on urban topics, including: 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. (B)
- 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. (Y)
- 5999. Special Topics. Cr. 1-4(Max. 8)**
Open only to graduate students. (Y)
- 6010. (GEG 6130) Advanced Urban Geography. (GPH 6130). Cr. 4**
Selected themes in urban geography: current theoretical developments, city systems in advanced societies, the evolution of urban patterns, recent regional shifts in American urbanization, the metropolis as a social unit. (B)
- 6100. Comparative Planning Systems. Cr. 3**
Comparative analysis of planning systems; examples from North America, Europe, and Japan. (Y)
- 6120. Planning Studies and Methods. Cr. 4**
Economic base, population, and land use studies. Discussion of approaches used to solve selected community development problems. (Y)
- 6180. Comparative Planning Systems. (GEG 6180). Cr. 3-4**
Study of urban and regional planning systems in selected countries in North America, Europe, and Asia. Examination of legislative, procedural and practical issues in different countries as well as cross-national policy exchanges. (Y)
- 6210. Urban Design Elements. Cr. 3**
Introduction to the role of urban design and the concept of design criteria, design variables, and terminology. (B)
- 6310. Housing Development. Cr. 3**
Process of urban residential development; emphasis on housing market analysis, the construction industry, and residential finance. (Y)
- 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. (Y)
- 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. (Y)
- 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. (B)
- 6420. Quantitative Techniques II. Cr. 4**
Student computer account required. Material fee as indicated in *Schedule of Classes*. Multivariate analysis with emphasis on applications, including matrix algebra, vector spaces, linear and non-linear models, principal components analysis, and programming approaches. (B)
- 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. (Y)
- 6520. Transportation and Planning. Cr. 4**
Introduction to the role of transportation in the planning process involving both regional and urban considerations. (Y)
- 6550. (ULM 6210) Regional, State, and Urban Economic Development: Policy and Administration. (P S 6440)(ECO 6650). Cr. 3**
Prereq: graduate standing. Examination of regional, state, and local economic development theory, analysis, policy and administration. (B)
- 6650. Planning and Development Law. Cr. 2-3**
Techniques available to guide land development. Concepts in zoning, subdivision regulations, timing and sequence of land development. (Y)
- 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. (B)
- 6720. (GEG 6650) Computer Assisted Mapping. (GPH 6650). Cr. 4**
Science of computer assisted mapping and hands-on computer assisted map production; geo-management issues. (B)
- 6750. (ECO 5520) State and Local Finance. Cr. 4**
Prereq: ECO 2010. Taxation, expenditure and debt management problems of state and local governments; grants-in-aid, subsidies, shared revenues and coordination of the financial policies of federal, state and local governments. Attention to problems, policies, and practices of governmental units in Michigan and neighboring states.
- 6850. Cost-Revenue Workshop. Cr. 3-4**
Offered for S and U grades only. No credit after U P 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. (B)
- 6820. (GEG 6720) Computer Applications for Spatial Analysis. (GPH 6720). Cr. 4**
Prereq: course in elementary statistics recommended. Introduction to computer software for spatial analysis, including spatial statistics, computer graphics, and computer cartography. (Y)

LABOR STUDIES

Office: 3178 Faculty/Administration Building; 577-2191

Director: Hal Stack

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.

Bachelor of Arts with a Major in Labor Studies

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 217) and the University General Education Requirements (see page 26), 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 pages 15-45 and 462-463, respectively.

REQUIRED CORE COURSES (Twenty-one Credits)

	<i>Credits</i>
LBS 2500—Introduction to Labor Studies	4
LBS 4700 — (WI) Senior Seminar	3
ECO 4410 —Labor Institutions	4
HIS 5290 —American Labor History	4
PSY 3500 —Psychology of the Workplace	3
SOC 5700 —Inequality and Social Class	3

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	3
LBS 4500 — Applied Labor Studies: Labor Law	3
LBS 4500 — Applied Labor Studies: New Forms of Work Organization	3
PSY 5710 — Dispute Resolution	3
PSY 5540—Motivation in the World of Work	3
PSY 5630— Group Dynamics	3
PSY 6560 —Psychology of Union-Management Relations	3
HIS 5630 — Socialism and the European Labor Movement	3
MGT 5740 — Collective Bargaining	3
MGT 5750 — Administering the Labor Agreement	3
PCS 5000 — Dispute Resolution (CRJ 5994, P S 5890, PSY 5710)	3
P S 3020 — Political Parties and Elections	4
P S 3030— Power and Pressure Groups	4
P S 3040 — The Legislative Process	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 program designed to strengthen workers' leadership and communication 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.

America, Past and Present — Significant events and people in the history of the United States.

Power and Politics — Power and politics in society and the workplace.

Labor and the Media — Analysis of news reporting and the media

SECOND YEAR

Economics for Workers —Functioning of the American economy.

Writing for Impact — effective written communication.

Union Skills — Labor law, collective bargaining, etc.

Labor Strategies — Strategies for increasing union power and effectiveness

UNDERGRADUATE COURSES (LBS)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

The following courses, are offered for undergraduate credit. For interpretation of numbering system, signs and abbreviations, see page 487.

2500. (HUM 2500) Introduction to Labor Studies. Cr. 4
Diverse history of labor as reflected in the popular arts (films, songs, stories, and graphics). (T)

4500. Applied Labor Studies. Cr. 3(Max. 12)
Prereq: consent of instructor. Practical training in various labor relations 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; 577-3458;
Fax: 577-8269; Web page: www.mtlds.wayne.edu
Director: Frederic S. Pearson

Executive Committee

Sheldon Alexander, *Psychology*
Ronald Aronson, *Weekend College*
Barbara Aswad, *Anthropology*
Ron Brown, *Political Science*
Kevin Cotter, *Economics*
Oto Feinstein, *Political Science*
George Galster, *Urban, Labor, and Metropolitan Affairs*
Joella Gipson-Simpson, *Education*
Eboe Hutchful, *Africana Studies*
Mark Kahn, *Economics (Emeritus)*
Bernice Kaplan, *Anthropology*
Marjorie Katz, *Detroit Council of World Affairs*
Marlyne Kilibey, *Psychology*
Jack Lessenberry, *Communications*
Michael Martin, *Africana Studies*
Richard Osborne, *Business*
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Anthony Perry, *Political Science*
Carolyn Pryor, *Social Work*
Jerome Reide, *Interdisciplinary Studies*
Alvin Saperstein, *Physics*
Melvin Small, *History*
Guy Stern, *German and Slavic*
Frances Trix, *Anthropology*
Olga Tsoudis, *Criminal Justice*
Marvin Zalman, *Criminal Justice*

Co-Major Program

The Peace and Conflict Studies (PACS) Co-Major Program integrates a variety of practical courses and interdisciplinary research to allow students to combine with their own majors training, study, and experience in the emerging field of dispute resolution (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, as well as approaches to conflict management ranging from diplomacy, law and negotiation, to mediation and arbitration. Questions are raised concerning the issues of peace, social justice, ethnicity, race, and culture, and violence.

The PACS curriculum provides a framework useful for careers in legal, educational, governmental, business, 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 future situations. Courses in this curriculum may also count toward satisfaction of University General Education Requirements, as well as college group and major requirements.

The program is designed around a set of core courses, which introduce the student to the field, provide introductions 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 focussed 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 (16 Credits) credits

PCS 2000 — Introduction to Peace and Conflict Studies	3
PCS 6000 — Senior Seminar in Peace and Conflict Studies	3

plus two courses from the following:

AFS 2210 — (SS) Black Social & Political Thought	4
ANT 5200 — Social Anthropology	3
ECO 5300 — International Trade	4
HIS 5130 — American Foreign Relations Since 1933 (HIS 7130)	4
PCS 2010 — Topics in PACS* (P S 2830) (HIS 2520)	1-4
PCS 2050 — Non-Violence	3
PCS 5100 — Advanced Special Topics*	3-4
PCS 2020 — Science, Technology and War (HIS 2510) (P S 2440)	4
PCS 5999 — Special Readings/Research	3
PHI 2330 — Introduction to Social & Political Philosophy	3
P S 2510 — Introduction to Political Ideologies	4
P S 2810 — World Politics	4
PSY 2600 — Psychology of Social Behavior	4
SOC 3300 — (SS) Social Institutions and Social Structure	3

Plus one course from the following:

PCS 5000 — Dispute Resolution	3
PCS 5010 — Internship	3
PCS 5500 — Ethnicity	4

ELECTIVES (17 Credits)

The University offers a large number of conflict- and peace-related courses in a variety of colleges which 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 credits

AFS 2210 — (SS) Black Social & Political Thought	4
AFS 2600 — Race and Racism in America (SOC 2600)	3
AFS 3420 — Pan-Africanism: Politics of the Black Diaspora (P S 3820)	4
AFS 3860 — Race, Class & the Criminal Justice System (SOC 3860)	3
AFS 5570 — Race Relations in Urban Society	3
ANT 3110 — Detroit Area Minorities: Arabs, Hispanics, & African Americans	3-4
ANT 3530 — Native Americans	3
ANT 5240 — Cross-Cultural Study of Gender	3
ANT 5260 — The African Religious Experience: A Triple Heritage (AFS 5260) (GIS 5260)	3
HIS 3150 — The Black Experience in America II: 1865 to the Present (AFS 3150)	3-4
HIS 5200 — Women in American Life & Thought (HIS 7200)	3
HIS 5480 — Nazi Germany (HIS 7480)	3-4

* Course may be taken only once for satisfaction of Core Requirement.

N E 2020 — Survey of Jewish History & Civilization (HIS 2320)	3
N E 3680 — Islamic History: Formation of the State (HIS 3680)	3
P S 4780 — Contemporary African Politics (AFS 4780)	4
P S 5030 — African American Politics (AFS 5030)	4
PSY 3250 — Psychology of Women	3
SOC 4460 — Women and Society	3
SOC 5570 — Race Relations in Urban Society (AFS 5570)	3
SPC 4030 — Gender and Communication (W S 4030)	3
SPC 5040 — The Rhetoric of Racism (S E 5370) (AFS 5040)	3

Peace and Conflict Theory

ANT 5140 — Biology and Culture	3
CRJ 5060 — Comparative Criminal Justice Systems	3
GER 2700 — (PL) Anguish & Commitment: European Existentialist Literature (SPA/FRE/ITA/RUS 2700)	3-4
HIS 3350 — Revolution in the Modern World: 1750 to the Present	3
PCS 2010 — Non-Violence (P S 2550) (SOC 2050)	3
PHI 3270 — Foundations of Law	3
P S 2460 — Policy and Rationality: Dilemmas of Choice	4
P S 3510 — (PL) Law, Authority & Rebellion	4
P S 3520 — (PL) Justice	4
P S 3530 — Community-Building in the History of Western Political Thought	4
P S 5560 — Biopolitics	4
P S 5570 — Marxism and Socialist Thought	4
P S 5830 — International Conflict and Its Resolution	4
PSY 3040 — Psychology of Perception: Fundamental Processes	3
PSY 3080 — Cognitive Psychology Fundamental Processes (LIN 3080)	3
PSY 3200 — Motivation, Feeling & Emotion	3
PSY 3310 — Abnormal Psychology	4
SOC 3820 — Theories of Crime & Delinquency	3
SOC 5550 — Collective Behavior: Masses, Mobs & Social Realities	3
SOC 5870 — Violence in the Family	3-4

Human Rights

AFS 2600 — Race & Racism in America (SOC 2600)	3
AFS 3860 — Race, Class, & the Criminal Justice System (SOC 3860)	3
AFS 5320 — Black Labor History (HIS 5320)	3
AFS 5580 — Law & the African American Experience (SOC 5580)	4
CBS 2430 — History of Latinos in the U.S. (HIS 2430)	3
CLA 3100 — Law and Ancient Society	3-4
CRJ 4600 — The Police in America	4
CRJ 5720 — Criminal Law	4
ECO 4410 — Labor Institutions	4
ECO 5490 — American Labor History (HIS 5290) (HIS 7290)	4
PHI 3270 — Foundations of Law	3
PCS 2010 — Topics in PACS: Humanitarian Intervention (P S 2830) (HIS 2520)	3
P S 5120 — Constitutional Rights & Liberties	4
P S 5820 — International Law	4
SOC 2600 — Race and Racism	3
SOC 3860 — Race, Class, and the Criminal Justice System	3
SOC 5700 — Inequity and Social Class	3
SPC 5300 — Women's Rights/Suffrage Rhetoric	3

International Issues in Peace & Conflict Studies

ANT 3100 — Cultures of the World	3-4
ANT 3540 — (FC) Cultures & Societies of Latin America	3
ANT 3550 — (FC) Arab Society in Transition (N E 3550)	3
ASN 4550 — (FC) Japanese Culture & Society I	4
ASN 4560 — (FC) Japanese Culture & Society II	4
ECO 5300 — International Trade	4
ECO 5310 — International Finance	4
GIS 3610 — (FC) Interdisciplinary Perspectives in Foreign Culture: The Africans (AFS 3610)	4
GPH 2700 — Introduction to Canadian Studies	3
GPH 2750 — Introduction to Quebec Studies	3
HIS 1400 — (HS) The World Since 1945	3-4

HIS 3050 — United States & the Vietnam Experience	4
NE 2040 — (HS) The Modern Middle East (HIS 1810)	3
P S 2700 — Introduction to Canadian Studies (HIS 2700) (GPH 2700) (ENG 2670)	3
P S 2710 — Introduction to Comparative Politics	4
P S 3810 — Foreign Policies of Major Powers	4
P S 3910 — Directed Study: WSU-Salford Exchange	3-9
P S 4750 — Russia & the Commonwealth of Independent States	4
P S 4760 — Central Europe in the Post-Communist Era	4
P S 5720 — China, Japan, and the Far East	4
P S 5770 — Government & Politics of Latin America	4
P S 5810 — American Foreign Policy and Administration	4
SLA 3410 — (FC) New Soil, Old Roots: The Immigrant Experience (ARM/GER/POL/RUS 3410)	3
SLA 3700 — The Changing Face of Europe (ARM/GER/POL/RUS/UKR 3700)	1-2
SLA 3710 — Russia & East European Film (RUS/UKR/POL/ARM 3710)	3
SOC 5600 — Sociology of International Inequality and Underdevelopment	3

SPC 3250 — Introduction to Organizational Communication	3
SPC 5170 — Human Communication & the Aged	3
S W 1010 — Introduction to Social Work & Social Welfare	2-3

Minor Program

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 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.

UNDERGRADUATE COURSES (PCS)

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90–x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

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. (F,W)

2010. Topics in Peace and Conflict Studies. (P S 2830) (HIS 2520). Cr. 1-4

Special topics relating to peace and conflict studies. (Y)

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

Peace & Conflict Studies in the United States

AFS 5110 — Black Women in America (W S 5110)	3
HIS 5200 — Women in American Life & Thought (HIS 7200)	3
HIS 5220 — The Changing Shape of America: WW I to Present (HIS 7220)	3-4
HIS 5290 — American Labor History	4
HIS 5300 — Economic History of the U.S. (HIS 7300)	4
P S 3110 — Politics and Local Justice	4
P S 3170 — The Living Constitution	4
P S 5030 — African American Politics (AFS 5030)	4
SOC 5570 — Race Relations in Urban Society (AFS 5570)	3
SOC 6750 — Sociology of Urban Health	3
ULM 6150 — Political Economy of the Urban Ghetto (ECO 6810) (U P 6670) (SOC 6850)	3
U S 2000 — (SS) Introduction to Urban Studies (SOC 2500) (GPH 2000) (HIS 2000) (P S 2000)	4

Peace Studies in Human Development

AFS 5130 — The Black Family (GIS 5130)	4
ANT 5140 — Biology and Culture	3
ANT 5310 — Language and Culture (LIN 5310)	3
ANT 5320 — Language and Society (LIN 5320)	3
BIO 2030 — Human Ecology	4
PSY 2400 — Developmental Psychology	4
PSY 3310 — Abnormal Psychology	4
PSY 3350 — Psychology of Personality	3
PSY 5280 — Psychoanalytic Theory	3
SOC 4100 — (SS) Social Psychology	4
SOC 5400 — The Family	3
SOC 5870 — Violence in the Family	3-4
SPC 3210 — Theories of Communication	4
SPC 5200 — Group Communication & Human Interaction	3

Dispute Resolution (assumes completion of PCS 5000)

ECO 6420 — Labor Relations Institutions & Public Policy	3
GEG 5810 — Locational Issues in Hazardous Waste Management (GPH 5810) (HWM 5810)	3
HUM 2500 — Introduction to Labor Studies (LBS 2500)	4
MGT 4520 — Managing Organizational Behavior	3
MGT 5740 — Collective Bargaining	3
P S 3030 — Power and Pressure Groups	4
P S 3040 — The Legislative Process	4
PSY 3500 — Psychology of the Workplace	3
PSY 5540 — Motivation in the World of Work	3
PSY 5630 — Group Dynamics	3
PSY 6560 — Psychology of Union Management Relations	3
SOC 5870 — Violence in the Family	3-4
SOC 5890 — Applied Techniques for Dealing With Family Violence	3
SPC 2200 — Interpersonal Communication	3

of career, bureaucracy and society on development, deployment and use of weapons. History of humanity and its tools of war. (W)

2050. The Study of Non-Violence. (SOC 2050)(P S 2550) (HIS 2530). Cr. 3

Intellectual and social roots of non-violence and the practice of non-violence in different people's life styles. (Y)

5000. Dispute Resolution. (CRJ 5994)(P S 5890)(PSY 5710). Cr. 3

Overview of the processes and sectors in the field of dispute resolution including negotiation, mediation, arbitration, and conciliation. (Y)

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. (T)

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. (Y)

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. (Y)

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. (T)

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. (Y)



URBAN STUDIES

Office: 225 State Hall; 577-0194; Fax: 577-0022

Director: Laura Reese

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 patternings 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: Three core courses (ten credits) and twenty-two 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 (see pages 15-45) and those of this college (see pages 462-463) and of the college sponsoring the major program taken as a cognate to the urban studies curriculum.

Core Requirements (10 credits)

	<i>credits</i>
U S 2000—(SS) Introduction to Urban Studies (SOC 2500) (GPH 2000) (HIS 2000) (P S 2000)	4
U S 4010 —Interdisciplinary Pro-Seminar	3

One of the following:

U S 2920 —(P S 2920) Political Science Internship	4
U S 6000 —(CRJ 6000) Internship	3
U S 6010 —Supervised Field Experience	3
U S 6050 —(GEG 6520) Independent Field Study (GPH 6520)	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 3210 — The Black Community and Public Policy	4
ANT 3110 — Detroit Minorities: Arabs, Hispanics, and African Americans	3-4
ANT 5060 —Urban Anthropology (SOC 5540)	3
ECO 5800 —Urban and Regional Economics I (U P 5820)	3
GEG 5650 —Metropolitan Detroit (GPH 5650)	4
GPH 5700 —Urban Canada (GPH 5700) (U P 5700)	4
GPH 6130 —Advanced Urban Geography (U P 6010) (GPH 6130)	4
GPH 6150 —Internal Structure of the City (U P 5420) (GPH 6150)	4
GPH 6240 —Industrial Geography (U P 5520) (GPH 6240)	4
GPH 6280 —Marketing Geography (U P 5620) (GPH 6280)	4
GPH 3130 — (SS) Introductory Urban Geography	4
HIS 5300 — Economic History of the United States (HIS 7300)	4
HIS 5340 — History of Ancient Rome (HIS 7340)	3
HUM 1030 — (VP) Exploring the Arts in Detroit	4
N E 3030 —Great Cities of the Near East	3
P S 2240—(SS) Introduction to Urban Politics and Policy	4

P S 5220 — Issues in Urban Public Policy and Management (U P 5150)	4
PSY 5580 — Consumer Psychology	3
SOC 2020 — (SS) Social Problems	3
SOC 3510 — (SS) The Nature and Impact of Population on Society	3
SOC 5400 — The Family	3
SOC 5500 — Urban and Metropolitan Living (U P 5210)	3
SOC 5570 — Race Relations in Urban Society (AFS 5570)	3
ULM 6650 — Regional, State and Urban Economic Development: Policy and Administration (P S 6440) (ECO 6650) (U P 6550)	3
U P 3110 — Urban Community (GPH 3110)	3-4
U P 5110 — Urban Planning Process	3-4
U P 6310 — Housing Development	3
U P 6510 — Urban and Regional Systems (GPH 6510) (GEG 6510)	4
U P 6520 — Transportation and Planning	4
U P 6650 — Planning and Development Law	2-3

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.

UNDERGRADUATE COURSES

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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 487.

URBAN STUDIES (U S)

1600. Detroit: Metropolis in Transition. Cr. 3

Introduction to Detroit metropolitan area: geography of greater Detroit; working, living, governing and the future of greater Detroit. (Y)

2000. (SS) Introduction to Urban Studies. (SOC 2500) (GPH 2000)(HIS 2000)(P S 2000). 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. (T)

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. (T)

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. (T)

6010. Supervised Field Experience. Cr. 3

Prereq: U S 4010 and written consent of instructor. Undergraduate credit only. Field experience correlating theory with practical work. Meets with FAC 5920. (Y)

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. (Y)

URBAN, LABOR, and METROPOLITAN AFFAIRS — INTERDEPARTMENTAL (ULM)

3070. Michigan Politics. (P S 3070). Cr. 4

History and overview of Michigan politics: structure, process, current issues. (B)

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. (B)

5999. Special Topics. Cr. 1–4(Max. 8)

Prereq: junior, senior, or graduate standing. (Y)

6100. Class, Race, and Politics in America. (P S 6050) (HIS 5110)(SOC 7330)(U P 7030)(AFS 6100). Cr. 3

Prereq: senior standing or consent of instructor. Historical and analytic investigation into the role of class and race in American politics. (Y)

6150. Political Economy of the Urban Ghetto. (ECO 6810) (U P 6670)(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. (B)

6210. Regional, State, and Urban Economic Development: Policy and Administration. (P S 6440)(ECO 6650) (U P 6550). Cr. 3

Prereq: graduate standing. Examination of regional, state, and local economic development theory, analysis, policy and administration.

B)

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.

(Y)

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.

(Y)

6500. Challenges to an Aging Society In an Urban Environment. Cr. 3-4

Prereq: graduate standing or consent of instructor. Impact of population aging and diminution of public policy-based social safety net on older individuals living in an urban environment. Impacts on housing options, urban space, quality of life (transportation, crime).

(Y)

6600. (S W 6500) Social Work and the Law. Cr. 2

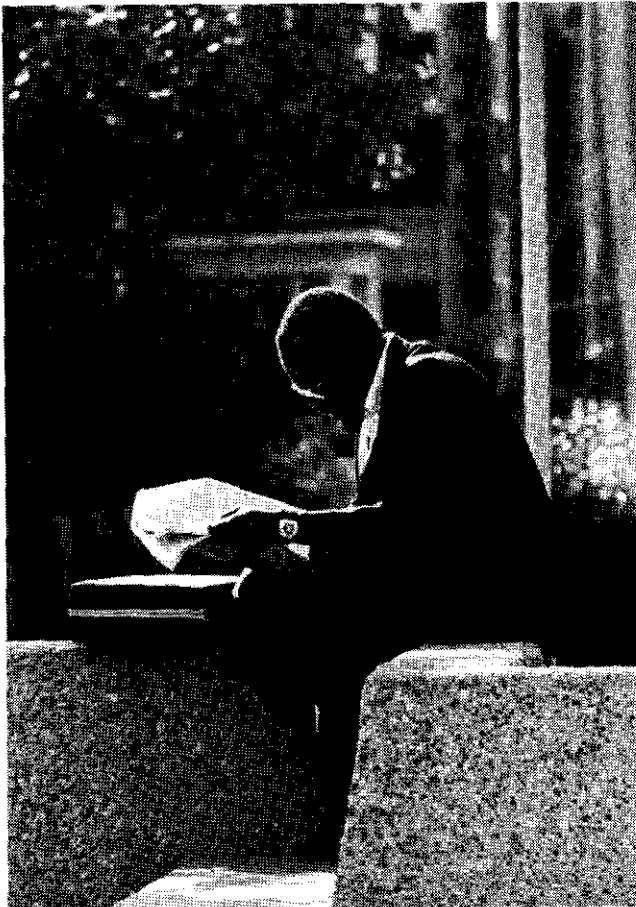
Study of the relationship between law and social work practice. Emphasis on understanding the legal processes, the relationship and interdependence of law and social work practice and the knowledge and skill needed to help integrate law into social work practice.

(W)

6999. Special Topics. Cr. 3

Open only to graduate students.

(I)



ADDITIONAL ACADEMIC PROGRAMS

UNIVERSITY COUNSELING and PLACEMENT SERVICES

Office: 573 Student Center; 577-3398; Fax: 577-0617

Executive Director: John A. Crusoe, M.B.A.

Office: 652 Student Center

Academic Development Staff

Deborah B. Dajek, Ph.D., Associate Director

Victoria Cliett, M.A.

Deborah M. Holland, M.A.

Mark A. Jackson, Ph.D.

Michael D. Oliver, Ph.D.

Career and Personal Development Staff

Cynthia M. Redwine, Ph.D., Associate Director

Cheryl D. Dove, M.A., L.P.C.

Janice W. Green, Ph.D.,

Amy B. McCollum, M.A., M.S.W.

University Counseling and Placement Services offer non-credit courses to help students ensure successful educational outcomes, develop skills for University and career life, and avoid commonly-encountered difficulties.

UNDERGRADUATE COURSES

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For interpretation of numbering system and signs, see page 487.

READING EFFICIENCY (R E)

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)

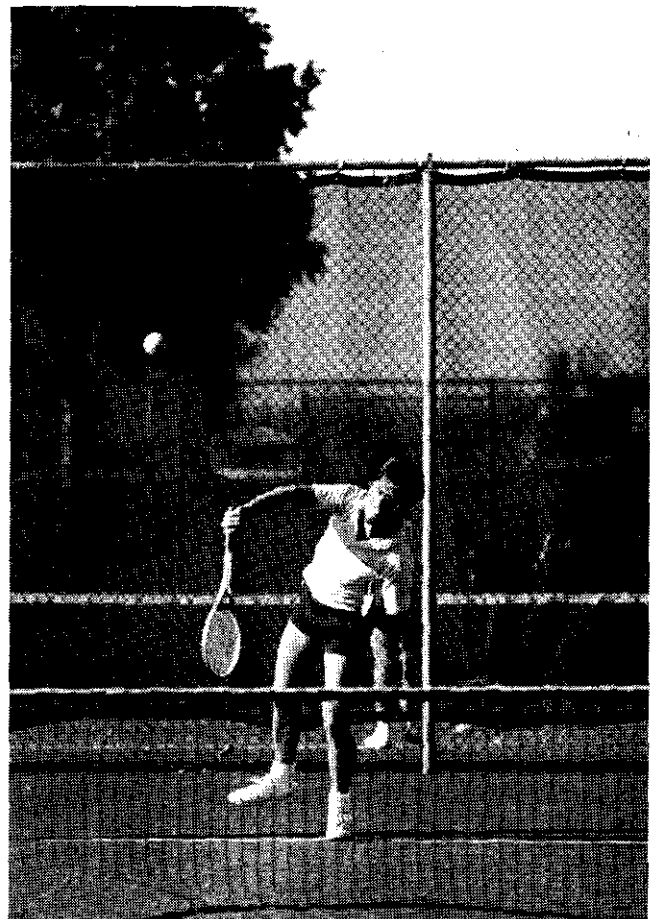
0998. Pre-Medical Study Skills. Cr. 0

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 (UCS)

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)



ROTC PROGRAM

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; registration is managed by the AFROTC. Interested students should contact AFROTC at (313) 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.

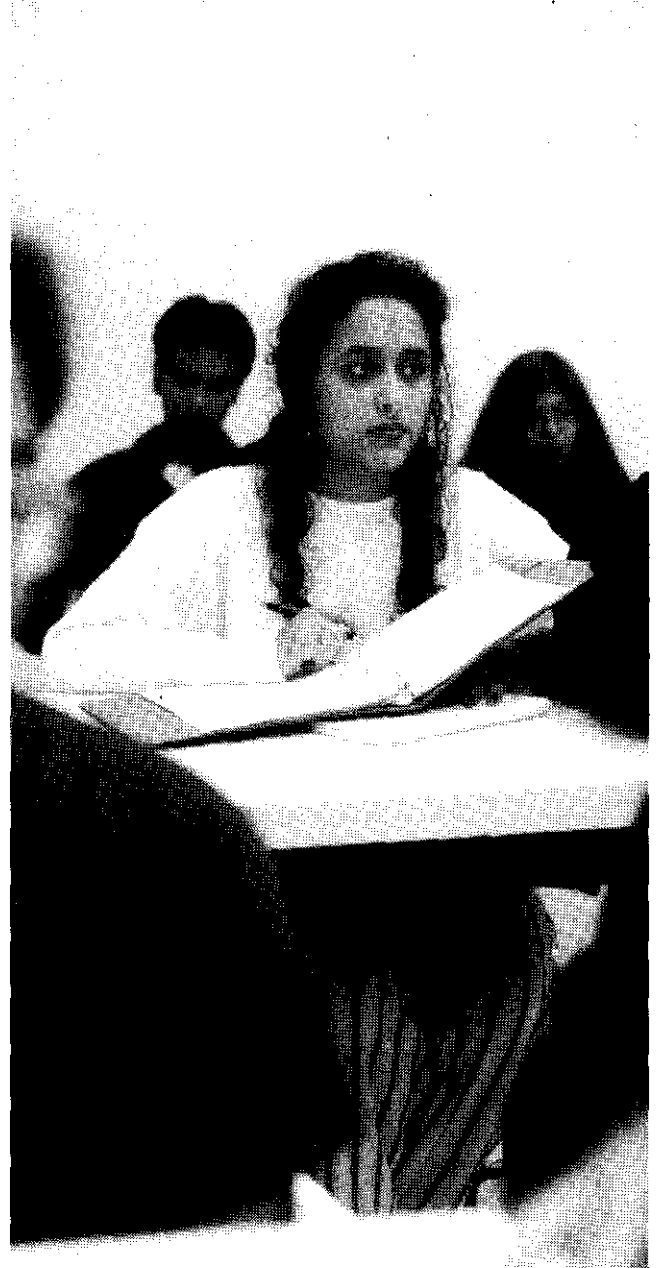
Four-Year and Two-Year Programs: The four-year program consists of eight terms (sixteen credits) of course work. The first four terms (freshman and sophomore years) comprise the General Military Course (GMC). During the summer following this sequence, each student is required to attend a four-week summer 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 February 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 \$100.00 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 \$100.00 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 eight 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.

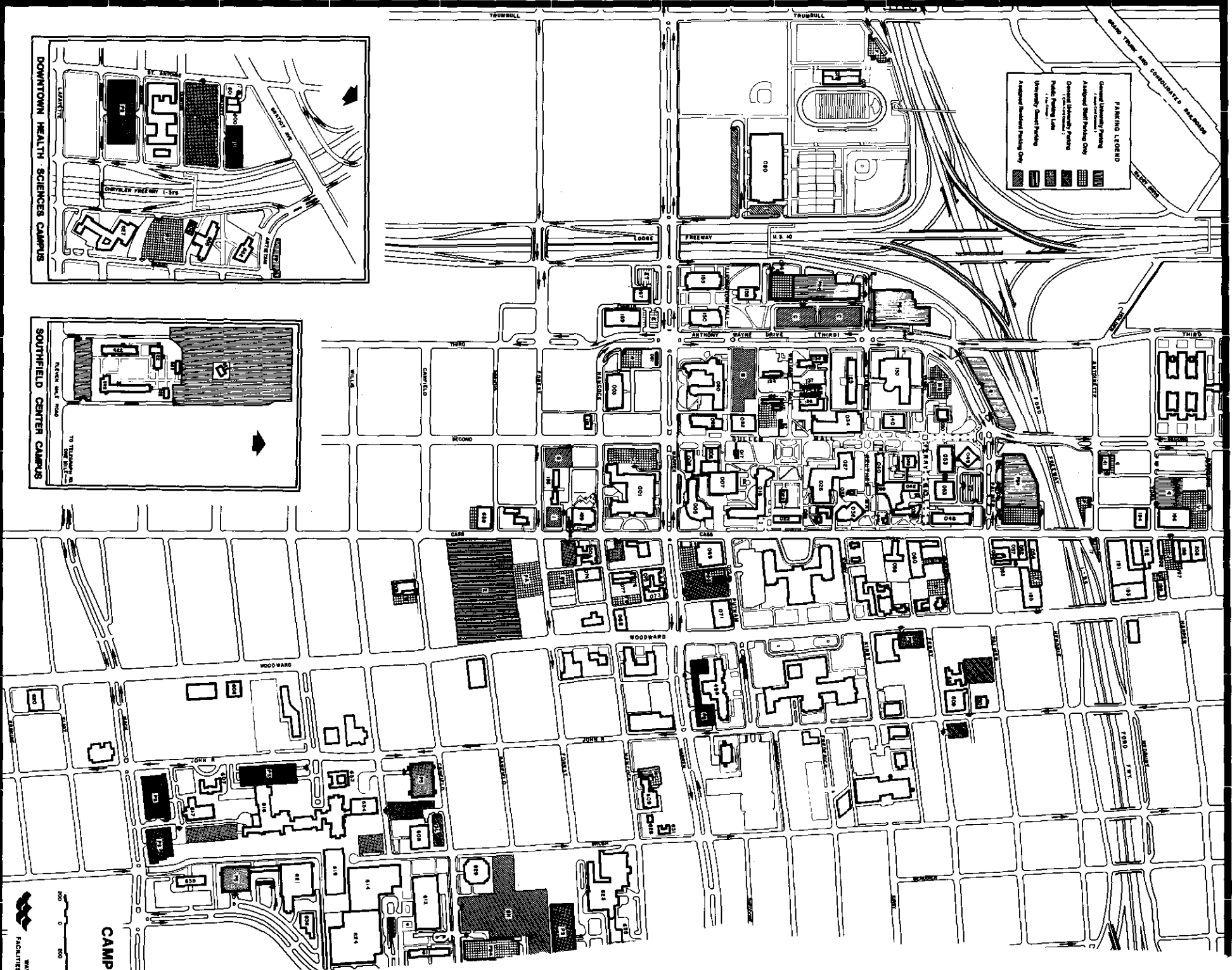
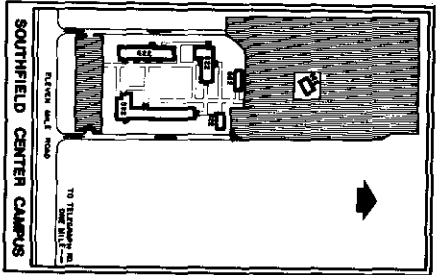
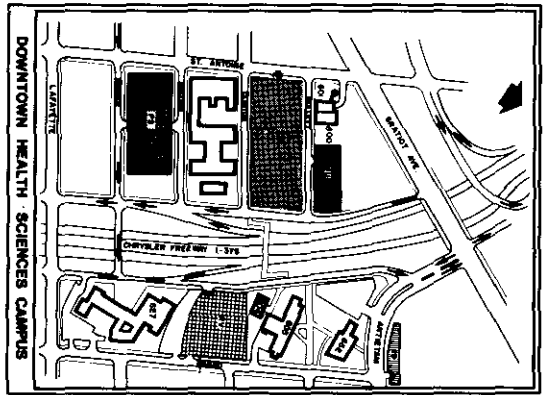
Flight Activities: Mentally and physically qualified cadets who wish to become Air Force pilots receive approximately thirteen hours of dual and solo light aircraft instruction under the supervision of an Air Force instructor pilot. This training usually takes place between the junior and senior years.

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.



CAMPUS MAPS
SIGNS and ABBREVIATIONS
INDEX

PARKING LOT/BERD	
	Original University Parking
	University Center
	Assigned Staff Parking Only
	Original University Parking
	Public Hearing Lot
	University - Guest Parking
	Assigned Student Parking Only



LEGEND OF UNIVERSITY AND ASSOCIATED BUILDINGS

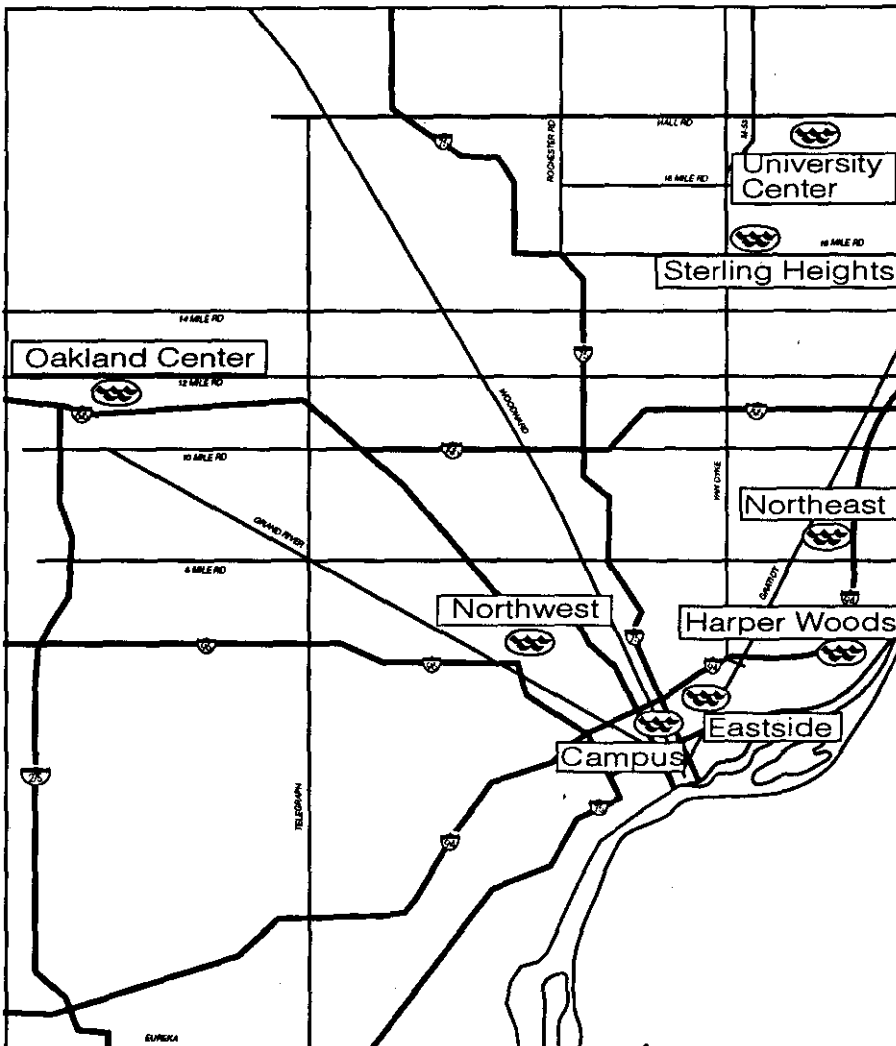
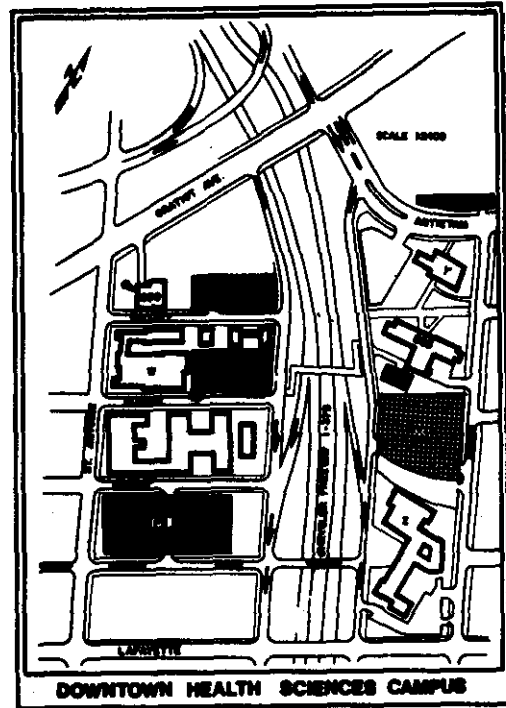
- 001 Old Main – 4841 Cass Ave.
- 003 Physics Building – 866 West Hancock Ave.
- 005 Science Hall – 5045 Cass Ave.
- 006 Life Science Building – 5000 Gullen Mall
- 007 Chemistry Building – 5101 Cass Ave.
- 008 Science & Engineering Library – 5048 Gullen Mall
- 016 State Hall – 5143 Cass Ave.
- 017 Frederick Linsell House – 5104 Gullen Mall
- 022 Meyer & Anna Prentis Building – 5201 Cass Ave.
- 023 Helen L. DeRoy Auditorium – 5203 Cass Ave.
- 026 G. Flint Purdy Library – 5244 Gullen Mall
- 027 Kresge Library – 5294 Gullen Mall
- 028 William C. Rands House – 5229 Cass Ave.
- 033 Max Jacob House (Art History Bldg.) – 451 Reuther Mall
- 034 Student Center Building – 5221 Gullen Mall
- 036 W. P. Reuther Library of Labor & Urban Affairs – 5401 Cass Ave.
- 038 Emma Lazaroff Schaver Music Building – 5451 Cass Ave.
- 039 Community Arts Center – 450 Reuther Mall
- 040 Art Building – 5400 Gullen Mall
- 041 Music Annex – 5415 Cass Ave.
- 042 Alumni House – 441 Ferry Mall
- 043 McGregor Memorial Conference Center – 495 Ferry Mall
- 045 Parking Structure #5 – 5501 Anthony Wayne Dr.
- 048 Richard Cohn Building – 5557 Cass Ave.
- 049 Law School Annex – 495 West Palmer Ave.
- 050 Natural Science Building – 5501 Gullen Mall
- 051 Parking Structure #1 – 450 West Palmer Ave.
- 052 Art Building North – 5740 Cass Ave.
- 053 Law School Building – 468 Ferry Mall
- 054 University Storage Warehouse – 5750 Cass Ave.
- 055 70 West Palmer Ave.
- 056 Parking Structure #2 – 5150 John Lodge Service Dr.
- 057 5700–5724 Cass Ave.
- 058 Thomas S. Sprague House – 80 West Palmer Ave.
- 060 University Services Building – 5454 Cass Ave.
- 064 Beecher House (University Development Offices) – 5475 Woodward Ave.
- 069 David Mackenzie Hall – 5050 Cass Ave.
- 072 Parking Structure #3 – 69 Putnam St.
- 073 51 West Warren Ave.
- 074 95 West Hancock Ave.
- 075 Psychology Building – 71 West Warren Ave.
- 076 Biology Research Building – 84 West Hancock Ave.
- 077 Public Safety Building – 76 West Hancock Ave.
- 078 Stadium Auxiliary Building – 1401 Edsel Ford Service Dr.
- 079 Wayne State Stadium – 1401 Edsel Ford Service Dr.
- 080 Matthaei Physical Education Center – 5101 John Lodge Service Dr.
- 081 Auxiliary General Office Building – 701 West Warren Ave.
- 089 Biological Sciences Building – 5047 Gullen Mall
- 090 Engineering Building – 5050 Anthony Wayne Dr.
- 092 Wayne State University Bookstore – 5125 Gullen Mall
- 117 5165 Gullen Mall
- 120 Katherine Faville Residence Hall – 645 Williams Mall
- 121 Humanities Office – 631 Williams Mall
- 124 Santa Fe Apartments – 681 Williams Mall
- 125 Helen N. Joy Student Services Building – 655 West Kirby Ave.
- 130 Faculty/Administration Building – 656 West Kirby Ave.
- 134 Helen L. DeRoy Apartments – 5200 Anthony Wayne Dr.
- 136 Chatsworth Tower Apartments – 630 Williams Mall
- 137 Chatsworth Annex – 650 Williams Mall
- 140 Education Building – 5425 Gullen Mall
- 141 Music Building North – 5900 Second Ave.
- 150 General Lectures – 5045 Anthony Wayne Dr.
- 155 Alex Manoogian Hall – 906 West Warren Ave.
- 156 St. Andrew's Church – 918 Ludington Mall
- 167 Engineering Technology Building – 4855 Fourth St.
- 169 Bioengineering Building – 818 West Hancock Ave.
- 181 Sherbrooke Apartments – 615 West Hancock Ave.
- 186 Forest Apartments – 460 West Forest Ave.
- 188 David Mackenzie House – 4735 Cass Ave.
- 189 Hilberry Theatre – 4743 Cass Ave.
- 191 Administrative Services Bldg. #1&2 – 5950 Cass Ave.
- 192 Administrative Services Bldg. #3 – 5980 Cass Ave.
- 193 Computing Center Building – 5925 Woodward Ave.
- 194 Pontiac Building (Transp. Services Bldg.) – 425 York St.
- 195 University Custodial Grounds Bldg. – 5743 Woodward Ave.
- 196 Criminal Justice Building – 6001 Cass Ave.
- 197 General Services Annex #1 – 6012 Cass Ave.
- 198 General Services Building #2 – 6030 Cass Ave.
- 199 Leonard N. Simons Building – 5959 Woodward Ave.
- 503 77 West Canfield Ave.
- 504 Thompson Home – 4756 Cass Ave.
- 509 Pauline Knapp Bldg. (Merrill-Palmer) – 87 East Ferry Ave.
- 510 Skillman Building (Merrill-Palmer) – 100 East Palmer Ave.
- 511 Charles L. Freer House (Merrill-Palmer) – 71 East Ferry Ave.
- 522 Southfield Center – 25610 West Eleven Mile Rd.
- 600 Clinical Laboratory Building – 645 Mullett St.
- 601 Occupational & Environmental Health Lab – 625 Mullett St.
- 604 Health Science Annex – 1390 Chrysler Service Dr.
- 605 Shapero Hall – 1400 Chrysler Service Dr.
- 608 Vera Shiffman Medical Library – 4325 Brush
- 609 C. S. Mott Center – 275 East Hancock Ave.
- 610 Mortuary Science Building – 627 West Alexandrine St.
- 611 Helen Vera Prentis Lande Bldg. – 550 East Canfield Ave.
- 612 Gordon H. Scott Hall of Basic Medical Science – 540 East Canfield Ave.
- 613 Parking Structure #4 – 545 East Canfield Ave.
- 615 Kresge Eye Institute – 3994 John R. Ave.
- 620 Bonstelle Theatre – 3424 Woodward Ave.
- 628 Louis M. Eliman Clinical Research Bldg. – 421 East Canfield Ave.
- 639 Federal Mogul Library Annex – 4455 Cass Ave.
- A Detroit Historical Museum – 5401 Woodward Ave.
- B Detroit Public Library – 5201 Woodward Ave.
- BB First Unitarian Universalist Church – 4605 Cass Ave.
- C Public School Center Building – 5057 Woodward Ave.
- CC Our Lady of the Rosary Church – 5930 Woodward Ave.
- DD Cathedral Church of St. Paul – 4800 Woodward Ave.
- E International Institute – 111 East Kirby Ave.
- EE First Congregational Church of Detroit – 33 East Forest Ave.
- F Detroit Institute of Arts (DIA) – 5200 Woodward Ave.
- FF First Church of Christ, Scientist (Reading Room) – 4830 Cass Ave.
- G Rackham Educational Memorial Building – 60–100 Farnsworth Ave.
- H Detroit Science Center – 5020 John R. Ave.
- I Center for Creative Studies – 245 East Kirby Ave.
- J Michigan Cancer Foundation – 110 East Warren Ave.
- K Hannan House – 4750 Woodward Ave.
- M Harper Hospital – 3990 John R. Ave.
- N Rehabilitation Institute – 261 Mack Ave.
- P Children's Hospital of Michigan – 3901 Beaubien St.
- R Ronald McDonald House – 3911 Beaubien St.
- T University Health Center (UHC) – 4201 St. Antoine Blvd.
- U Detroit Receiving Hospital (DRH) – 4201 St. Antoine Blvd.
- W-1 Hutzel Hospital – 4707 St. Antoine Blvd.
- W-2 Hutzel Professional Building – 4727 St. Antoine Blvd.
- W-3 Hutzel Annex – 4827 Brush St.
- W-4 4454–4466 Woodward Ave.
- Y Wayne County Medical Society – 1010 Antietam St.
- Z Lafayette Clinic – 951 East Lafayette Blvd.

MAP



DOWNTOWN MEDICAL CENTER

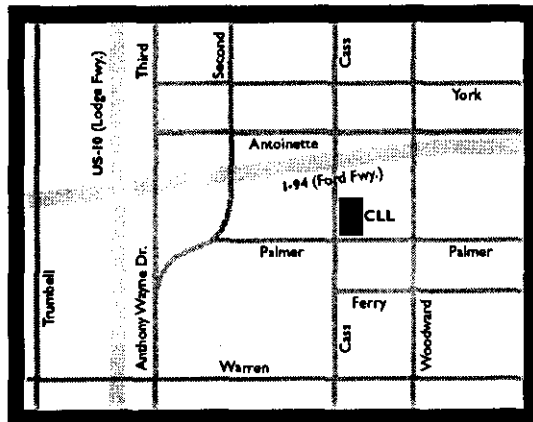
- 600 Clinical Laboratory Building
- X Detroit General Hospital
- W Detroit Memorial Hospital
- 604 Health Sciences Annex
- 605 Health Sciences
- Z Lafayette Clinic
- Y Wayne County Medical Society



CLL Extension Centers

1. Eastside Center
2. Harper Woods Center
3. Northeast Center
4. Northwest Activities Center
5. Oakland Center
6. Sterling Heights Center
7. University Center at Macomb
8. CLL Campus Office

CLL extension Locations

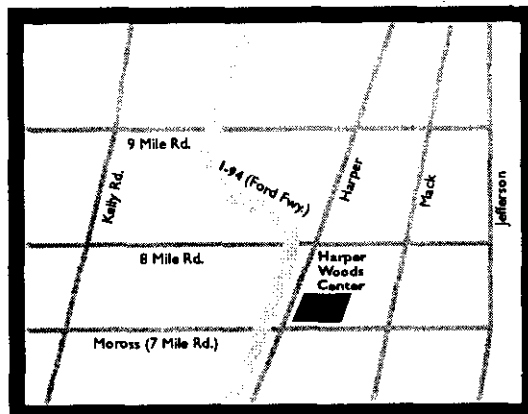
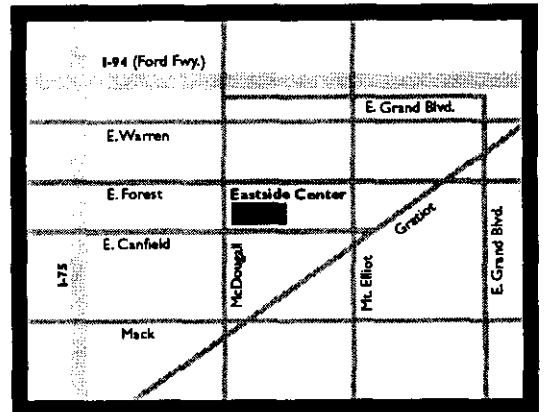


CLL Registration Services
Academic/Administrative Building
 5700 Cass, 2nd Floor
 Detroit, MI 48202
 (313) 577-4671

center hours:
Mon-Thur, 8:30am-6pm
Fri, 8:30am-5pm

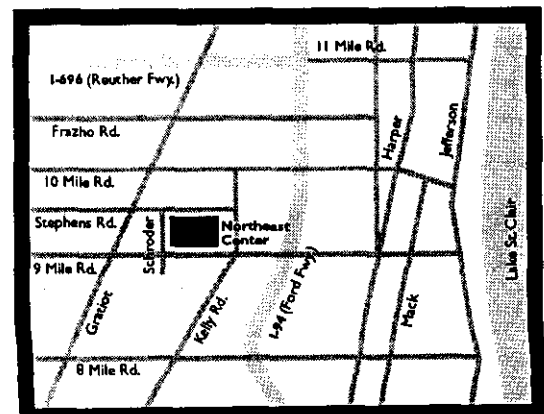
CLL Credit Programs Information
 (313) 577-4682

Eastside Center
 3127 E. Canfield
 Detroit, MI 48207
 (313) 577-4701
 fax (313) 571-8530
 center hours:
Tue and Thur, 8:30am-8pm
Mon, Wed, Fri, 8:30am-5pm

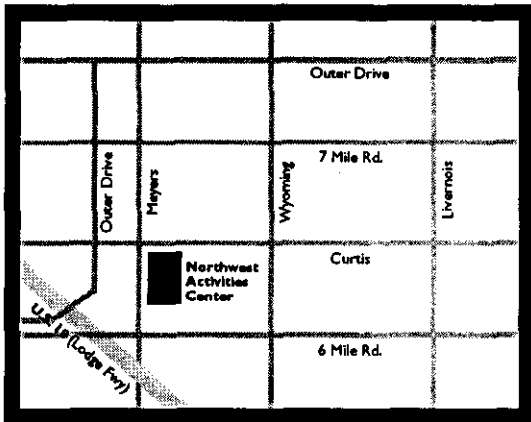


Harper Woods Center
Bishop Gallagher High School
 19360 Harper
 Harper Woods, MI 48225
 (313) 881-2438
 (810) 772-5530 fax
 center hours:
Mon-Thur, 5-10pm
 (no daytime hours, contact University Center at Macomb
 for information at (810) 263-6700)

Northeast Center
St. Basil School
 22860 Schroeder
 Eastpointe, MI 48021
 (810) 771-3730
 fax (810) 772-5530
 center hours:
Mon-Thur, 8:30am-10pm
Fri, 8:30am-5pm
 (contact center for Saturday hours)



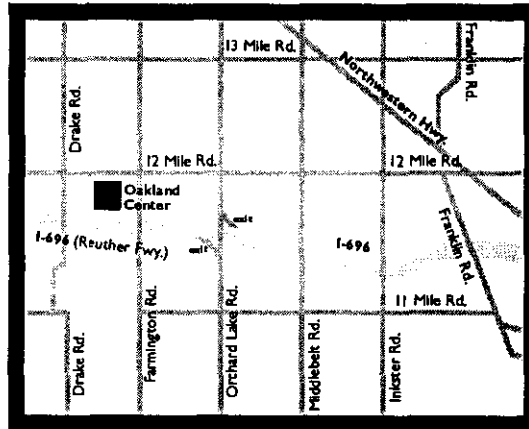
CLL extension locations



Northwest Activities Center

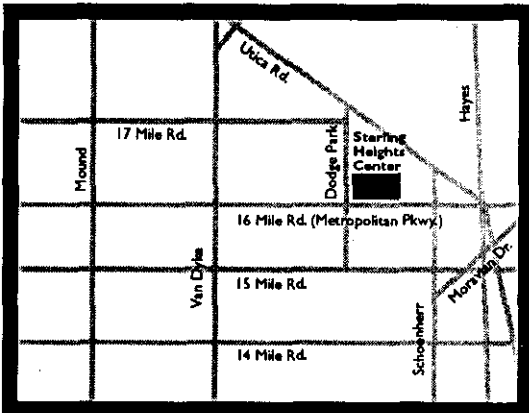
18100 Meyers
 Detroit, MI 48235
 (313) 577-0613
 (313) 864-0627 fax
 center hours:
 Mon-Thur, 8:30am-10pm
 Fri, 8:30am-5pm
 Sat, 8:30am-12:30pm

Oakland Center
 33737 W. 12 Mile Rd.
 Farmington Hills, MI 48331
 (313) 577-3592
 (810) 553-3545
 fax (810) 553-7733
 center hours:
 Mon-Thur, 8:30am-10pm
 Fri, 8:30am-5pm
 Sat, 8:30am-4pm



Sterling Heights Center

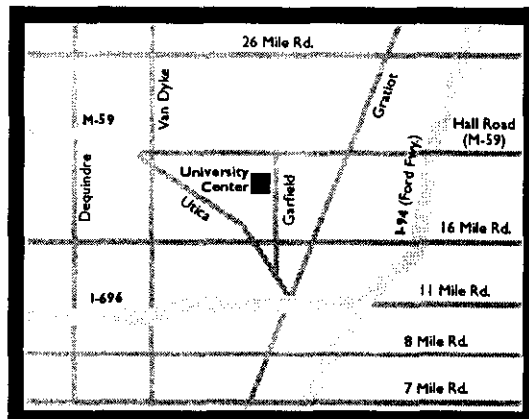
Heritage Junior High
 37400 Dodge Park
 Sterling Heights, MI 48312
 (810) 978-7881
 (810) 268-1352 fax
 center hours:
 Mon-Thur, 8:30am-10pm
 Fri, 8:30am-5pm
 (contact center for Saturday hours)



University Center University Center at Macomb

44575 Garfield
 Clinton Twp., MI 48048
 (810) 263-6700
 fax (810) 263-6008
 center hours:
 Mon-Thur, 8:30am-7pm
 Fri, 8:30am-4:30pm

(Academic and financial advising by appointment.
 Register for University Center classes either at
 University Center or on the WSU main campus.)



SIGNS and ABBREVIATIONS

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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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COURSE NUMBERING SYSTEMS

'New' Four-Digit Course Numbers: During the two-year service life of this Bulletin, the University will convert the course numbering system from three digits to four digits. In order to make the equivalencies between the two numbering systems clear to students who have experienced both systems, the conversion has been done by simply appending a zero to each three-digit course number (220 becomes 2200, 575 becomes 5750, etc.) — *except in cases where the three-digit number ends in 90 to 99.* In all instances where the number ends in 90 to 99, the last digit of the three-digit number is preserved as the last digit in the new four-digit number, and a nine is inserted as the third digit of the new number. (Thus, in these special x90 – x99 cases, 490 becomes 4990, 593 becomes 5993, 697 becomes 6997, etc.)

All of the course numbers have been standardized to four digits in this edition of the Bulletin. If the new system is not operational in time for Fall Term 1997, there will be only a marginal inconsistency between the course numbers cited in this Bulletin and those appearing in the Schedule of Classes or used by Registration. However, the analogy between the old and the new system will be consistent as stated above, enabling easy translation between this Bulletin and documents still using the three-digit system.

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.

SYMBOLS and ABBREVIATIONS

Used in Course Listings

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 (Fall or Winter, not Spring/Summer).
(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 Courses of Instruction 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
T V	—	Television

Cr. *credit:* Amount of credit is 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.

Prerequisite courses must be completed prior to enrollment in courses for which they are listed. *Corequisite courses* must be taken simultaneously. It is the responsibility of students to complete all prerequisites before registering for a course with such requirements and to register for corequisites indicated for a course. Departments may waive prerequisites and corequisites in accordance with academic policy.

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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