

***UM –Flint Courses Required for Entry to Wayne State University
Pharmacy College***

IMPORTANT NOTICES:

- The following information is current as of November 2007. Always contact Wayne directly to see if any changes have been made for the year you will be applying.
- Starting for **Fall '09 admission**, one year of anatomy (BIO 167,168) is required AND Mammalian Physiology (BIO 432). This is a Winter only course and the pre-req's are BIO 111, 113, and 326.
- Read all of the following information very closely; particularly the third page that contains additional deadlines. Also note the GPA requirements.
- The general educational requirements listed on page four are not prerequisites. However, you will need to have completed them before you graduate from Wayne. It is therefore recommended that you complete them before starting the PharmD program so they do not conflict with the pharmacy courses.
- Before you can schedule an appointment with an advisor, you must attend an information meeting. These meetings are scheduled for the first Tuesday of every month, from 6:00-8:00 PM at the Eugene Applebaum College of Pharmacy and Health Sciences. The building is located at 259 Mack, on the corner of Mack and John R, in the Detroit Medical Center.
- The PCAT test is required to be taken by October of the year before in which you plan to be admitted. Admission deadlines are now in the beginning of December as Wayne is using the PharmCAS system.
- Michael Koltuniak works with students applying for admission to the college. If you plan on applying to the college within the next year, you should send an email to ac2749@wayne.edu, this is the email address for Mr. Koltuniak.
- While Wayne State sets 1 semester as the requirement for courses such as physics and organic lab, it is advisable that students take an extra semester in order to appear more competitive for the program.
- While it is not required, experience is weighted very heavily for admission into the program. Most students gain this experience by working as a Pharm Tech for 1-2 years. You can also gain experience by working, or volunteering in other clinical settings

WAYNE STATE UNIVERSITY
 PHARMACY EQUIVALENCY SHEET FOR
 UNIVERSITY OF MICHIGAN-FLINT

For Fall 2009 Admission

Phone: (313) 577-1716
 Fax: (313) 577-5589
 E-mail: cphsinfo@wayne.edu

The courses, competencies, and requirements listed below, along with a minimum of 60 semester credit hours, must be completed prior to admission to the PharmD program. **CURRICULUM REQUIREMENTS AND EQUIVALENT COURSES CHANGE. IT IS THE STUDENT'S RESPONSIBILITY TO KEEP CURRENT WITH THESE CHANGES.**

IMPORTANT NOTICE: Before you can schedule an appointment with an advisor, you must attend an information meeting. These meetings are the first Tuesday of every month at 6:00 PM at the Eugene Applebaum College of Pharmacy and Health Sciences. The building is located at 259 Mack, on the corner of Mack and John R, in the Detroit Medical Center. pay parking is available at the parking structure located across the street from the building. The structure is on John R north of Mack.

WAYNE STATE UNIVERSITY	UNIVERSITY OF MICHIGAN-FLINT
SCIENCE PREREQUISITES	
BIO 1510 BASIC LIFE MECHANISMS	BIO 113
BIO 2200 INTRODUCTORY MICROBIOLOGY	BIO 135 OR BIO 335 OR BIO 435
BIO 2870 ANATOMY AND PHYSIOLOGY	BIO 167, 168
BIO 4120 MAMMALIAN PHYSIOLOGY	BIO 432 (Winter only course, 111, 113, and 326 prereqs)
CHM 1220+1230 CHEMICAL STRUCTURE W/LAB	CHM 260+261
CHM 1240+1250 PRINCIPLES OF GENERAL/ORGANIC CHEMISTRY W/LAB	CHM 262+263
	CHM 330
CHM 2220 ORGANIC CHEMISTRY	CHM 332
CHM 2230 ORGANIC CHEMISTRY LABORATORY	CHM 331 OR CHM 333
MAT 2010 CALCULUS 1	MTH 121
PHY 2130 GENERAL PHYSICS 1	PHY 143
PHY 2131 GENERAL PHYSICS 1 LABORATORY	INCLUDED IN ABOVE COURSE
NON-SCIENCE PREREQUISITES	
BASIC COMPOSITION	ENG 111 OR HON 155
INTERMEDIATE COMPOSITION	ENG 112 OR ENG 202 OR ENG 203 OR ENG 208 OR HON 156 OR COM 338
COMPUTER LITERACY	BUS 181 OR 381 OR CSC 121 OR 122 OR CSC 123 OR CSC 175 OR CSC 270 OR CSC 275 OR WSU EXAM
CRITICAL THINKING	PHL 202 OR WSU EXAM
AMERICAN POLITICAL SCIENCE	POL 120
BASIC SPEECH	COM 210 OR THE 210 OR HIGH SCHOOL COURSES
ENGLISH PROFICIENCY EXAM	WAYNE STATE ONLY

PHARMACY COLLEGE ADMISSIONS TEST (PCAT) MUST BE TAKEN BY JANUARY OF THE YEAR FOR WHICH YOU ARE SEEKING ADMISSION	CONTACT THE PSYCHOLOGICAL CORPORATION AT 1-800-622-3231 FOR EXAM INFORMATION
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Contact the Wayne State University Testing and Evaluation Office, 698 Student Center Building, (313) 577-3400, for test dates and scheduling information for competency and proficiency exams.

The prerequisite courses listed on this sheet must be completed with a minimum grade of "C" (2.0 on a numerical grading system). **Grades of "C-" or numerical grades below 2.00 are not acceptable. Also, all courses must be taken for grade. P/F or S/U grades are not acceptable.** A minimum core grade point average (GPA) of 2.50 calculated on the final grades earned in all prerequisite courses and a science and math GPA of 2.50 calculated on the final grades earned in the required prerequisite science and math courses is required for admission.

Applicants whose first language is not English must pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550 on the written exam or 213 on the computer exam. Please contact Wayne State University Testing and Evaluation Office, 698 Student Center Building, (313) 577-3400 about testing dates and scheduling information.

Completion of the required prerequisites with minimum grades does not guarantee admission to the

PharmD program. Admission to the PharmD program is selective and competitive.

ONLY 64 SEMESTER CREDIT HOURS FROM A TWO-YEAR INSTITUTION WILL APPLY TOWARD FULFILLING GRADUATION REQUIREMENTS AT WAYNE STATE UNIVERSITY.

The deadline for applying for admission to the PharmD program is **February 1st**. Applications to the PharmD program are available through PharmCAS at www.PharmCAS.org. The Eugene Applebaum College of Pharmacy and Health Sciences does not provide applications for the PharmD program. The Pharmacy College Admissions Test (PCAT) must be taken by **January 30th**. Please designate PharmCAS as the recipient of your PCAT scores. Completion of all science prerequisites is required by **May 10th** of the year for which you are seeking admission. The English Proficiency Exam must be taken by **March 10th** of the year for which you are seeking admission. All other non-science prerequisites must be completed by **August 17th** of the year for which you are seeking admission. Applicants are not admitted to the PharmD program without completion of all of the prerequisites listed on the previous page. Applicants must be eligible for admission to Wayne State University to be admitted to the PharmD program. Applicants who want to have transfer credit considered for classes outside of the United States must supply a detailed course-by-course evaluation of their foreign educational credentials completed by the Educational Credential Evaluators, Inc. (ECE) or the World Education Services, Inc. (WES). Contact ECE at (414) 289-3400 or www.ece.org for evaluation applications. Contact WES at (212) 966-6311 or www.wes.org. Students who take course work at Canadian universities do not have to have their credentials evaluated.

TIME LIMITATION: Because of the rapid changes in technology, preprofessional math and science credits must be completed within five years prior to admission to the PharmD program.

The following Wayne State University General Education requirements must be completed to fulfill degree requirements. Students with a baccalaureate (B.A., B.S., or B.Sc.) degree from an accredited college or university are exempt from Wayne State University General Education requirements. Some Wayne State University General Education requirements may be satisfied through testing, high school course work, or advanced placement. For group requirements, the same department may only be used once. Please refer to the *2003-2005 Wayne State University Undergraduate Bulletin* for further information. Contact the Wayne State University Testing and Evaluation Office, 698 Student Center Building, (313) 577-3400, about testing dates and scheduling information for competency and proficiency exams.

WAYNE STATE UNIVERSITY	UNIVERSITY OF MICHIGAN-FLINT
FOREIGN CULTURE	FRN 211 OR GER 211 OR LAT 205 OR RUS 211 OR SPN 211
HISTORICAL STUDIES	AFA 230 OR AFA 231 OR HIS 112 OR HIS 113 OR HIS 230 OR HIS 231
PHILOSOPHY AND LETTERS	AFA 215 OR AFA 319 OR ANT 355 OR CPL 301 OR CPL 303 OR CPL 304 OR ENG 200 OR ENG 215 OR ENG 228 OR ENG 303 OR ENG 312 OR ENG 315 OR ENG 316 OR ENG 331 OR ENG 333 OR ENG 334 OR ENG 350 OR ENG 357 OR ENG 364 OR ENG 368 OR ENG 432 OR HON 251 OR HON 252 OR LIN 200 OR PHL 101 OR PHL 162 OR PHL 266 OR PHL 372
VISUAL AND PERFORMING ARTS	AFA 308 OR ART 120 OR ART 241 OR MUS 100 OR MUS 220 OR THE 100
SOCIAL SCIENCE	ANT 100 OR ECN 201 OR ECN202 OR GEO 115 OR INT 100 OR POL 190 OR SOC 100 OR SOC 180 OR SOC 220 OR SOC 376 PR WGS 200

BE WARY OF ADVICE OR INFORMATION FROM OTHER STUDENTS OR SELF-APPOINTED AUTHORITIES. THIS ADVICE IS FREQUENTLY INCOMPLETE OR INCORRECT. ALSO, BE WARY OF ADVICE OR INFORMATION FROM CURRENT PHARMACY STUDENTS. PREREQUISITES AND ADMISSION REQUIREMENTS CHANGE FROM YEAR TO YEAR AND WHAT WAS VALID FOR THEM MAY NOT BE CURRENTLY VALID.

PROGRAM DESCRIPTION

Wayne State University is a comprehensive state funded university with 14 colleges and schools, offering more than 350 academic programs, including 126 bachelor's degree programs, 139 master's degree programs, 60 doctoral degree programs and 32 certificate, specialist and professional programs. As of fall 2003, over 31,000 students attended Wayne State University; the third largest university enrollment in Michigan. Because of its location and mission it is considered a leading urban research university.

The Eugene Applebaum College of Pharmacy and Health Sciences is an academic unit of Wayne State University. The college recently moved to its new location on the campus of the Detroit Medical Center in the heart of metropolitan Detroit. The new state of the art facility is located in the midst of the Detroit Medical Center's seven modern hospitals and over 100 outpatient clinics. The center boasts a high concentration of health professionals, including the faculty and students of the Wayne State University School of Medicine, one of the nation's largest medical schools. It is one of the Midwest's leading centers for healthcare, research and education. The Eugene Applebaum College of Pharmacy and Health Sciences is designed to provide students with the latest tools to prepare them for health careers in the new economy. The college enrolls more than 800 students in 22 degree and certificate programs.

Museums, theatres, stadiums, restaurants, major cultural and sporting events are situated near the college. A new residence hall is located on main campus, University owned and

private apartments are available adjacent to the Detroit Medical Center within walking distance of the College.

The Doctorate of Pharmacy (Pharm.D.) at Wayne State University emphasizes the following:

- Early practice experiences which are incorporated into the first semester in the program and continue throughout the curriculum.
- Integration of pharmaceutical sciences with pharmacy practice courses.
- Use of active learning techniques which focus on student problem based learning and include techniques such as discussions, simulations, presentations and computer-assistance.
- A shift in advanced practice experiences away from institutional practice towards ambulatory care and community pharmacy settings.
- Addition of patient assessment and advanced communication skills.

The Pharm.D. at Wayne State University is designed to produce a graduate who has a strong pharmacy data case with strong practice experiences focusing on identifying and resolving drug related problems by applying critical thinking skills developed through student problem-base learning.

Statistics for 2007 Entering Class Acceptees *

Estimated number interviewed - 200
Number accepted- 104
Estimated entering class size - 100
Estimated male - 41%
Estimated female - 59%
Number transfer - 1
Number out-of-state - 23

* Data as of April, 2007

Application Criteria for 2008 Entering Class

Expected GPA of accepted students - 3.66
Minimum overall GPA considered - 3.00
Minimum prerequisite GPA considered - 3.00
Minimum PCAT scores considered - Competitive >50th%tile
Total number of new entrants expected - 100

Applicants for admission to the WSU PharmD program will be evaluated using both academic and non-academic criteria. The applicant's pre-pharmacy academic record and PCAT scores are factors of high importance. The minimum GPA for consideration for the PharmD program is 2.80. Other factors are considered as part of a holistic evaluation. These factors include communication skills, extracurricular activities, work experience

and diversity, defined as including but not being limited to ethnicity, gender, race, life experiences and residency.