



## Pre Pharmacy Guide

### Course Requirements for Michigan Pharmacy Schools

The following courses are either required by all Michigan Pharmacy schools or are highly recommended to take prior to application to Pharmacy school. Note that some of these courses are not listed as required courses on the school's websites but are included as embedded prerequisites to higher level courses listed. This document is a GUIDE only. Students must consult with their Pre Professional Health Careers advisor AND the appropriate Pharmacy schools on a regular basis for revisions to course requirements and to identify and ensure completion of all required courses.

Requirements	Ferris State University	University of Michigan	Wayne State University
American Government			PLS 100 or ISS 225
Anatomy	(ANTR 350 & 485) or ZOL 328	ANTR 350	ANTR 350 & (PSL 250 or 310) or KIN 216
Biology	BS 110 & 111 & 111L	BS 110 & 111 & 111L	BS 111 & 111L
Biochemistry		BMB 401 or (BMB 461 & 462)	
Calculus	MTH 132 ( <i>MTH 124 allowed</i> )	MTH 132	MTH 132
Inorganic Chemistry	CEM 141 & 161 CEM 142 & 162	CEM 141 & 161 CEM 142 & 162	CEM 141 & 161 CEM 142 & 162
Organic Chemistry	CEM 251 & 252 & 255	CEM 251 & 252 & 255	CEM 251 & 252 & 255
Economics	EC 202 ( <i>EC 201 allowed</i> )		
English Composition	WRA 1XX	WRA 1XX	<i>Please See Below*</i>
Genetics		ZOL 341	
Humanities or Foreign Language	IAH A&B & one add'l arts/humanities course ( <i>Required if not completing degree</i> )	IAH A&B	<i>Please See Below*</i>
Microbiology	MMG 301 & 302 ( <i>required for Fall 2011 applicants &amp; beyond</i> )		(MMG 301 or 201) & MMG 302
Medical Microbiology or Immunology		MMG 463 & 464 or MMG 451 & 302	
Physics		PHY 231 & 251 PHY 232 & 252	PHY 231 & 251
Human Physiology	PSL 310 or (PSL 431 & 432)		PSL 431 & 432
Psychology	PSY 101 ( <i>Not required if Social Science is completed</i> )		
Social Science	SOC 100 ( <i>Not required if Psychology is completed</i> )		
Speech	COM 225 ( <i>Required if not completing degree</i> )		COM 100
Statistics		STT 421 (STT 201 or 231 <i>acceptable if taken Spring 2010 or before</i> )	
Average GPA	3.76 Prerequisites	3.3 Cumulative	3.6 Cumulative
Average PCAT	93 <sup>rd</sup> Percentile	70 <sup>th</sup> Percentile	75 <sup>th</sup> Percentile

*\* To complete the composition requirements for Wayne State University, students must take one of each a Basic Level English Composition (BC) AND an Intermediate Level English Composition (IC).*

BC (choose one): WRA 110, 115, 125, 130, 145, 150, 195H or ENG 101

IC (choose one): IAH 201, 202, 204, 206 or WRA 140

*\*\* Students who will not complete a bachelor degree prior to admission to Wayne State University are required to complete add'l Gen Ed courses for WSU. Consult with WSU for requirements.*

**Each professional school has their own policy on whether or not to accept courses from Advanced Placement and Community Colleges. Students must individually contact the schools to determine the requirements.**

**Important websites:**

American Association of Colleges of Pharmacy: [www.aacp.org](http://www.aacp.org)

CNS preprofessional info: [http://naturalscience.msu.edu/students/undergraduate/pre\\_professional/index.html](http://naturalscience.msu.edu/students/undergraduate/pre_professional/index.html)