



## Pre-Medicine at the University of Michigan-Dearborn

Below, in the table on both pages, are the classes you need to learn for the content of the Medical College Admissions Test ([MCAT](#)) as well as meet the requirements for most of the medical schools (MD and DO) in the USA. Students can learn more details about specific school requirements using the Medical School Admissions Requirements ([MSAR](#)) for MD schools and the [Choose DO Explorer](#) for DO Schools.

Course Subject	Course Title	Course Number	Credit Hours	DDC*
<b>Biology</b>	Intro. to Organismal and Environmental Biology	BIOL 130+lab	4	GENS
	Intro. to Molecular and Cellular Biology (pre-req CHEM 134)	BIOL 140+lab	4	GENS
	Upper-level Biology (pre-reqs usually BIOL 130 and/or BIOL 140)	E.g. BIOL 306 no lab	4	
<b>Chemistry</b>	General Chemistry IA (pre-req or co-req MATH 105 or equivalent)	CHEM 134+lab	4	GENS
	General Chemistry IIA (pre-req CHEM 134)	CHEM 136+lab	4	GENS
	(If you took CHEM 144 & 146 + labs, this is acceptable.)			
	<b>AND</b>			
<b>Additional</b>	Organic Chemistry I (pre-req CHEM 136)	CHEM 225	4	
<b>Chemistry</b>	Organic Chemistry II (pre-req CHEM 225)	CHEM 226	4	
	Organic Chemistry Laboratory (pre-req or co-req CHEM 226)	CHEM 227	2	
	<b>AND</b>			
	Principles of Biochemistry (pre-req BIOL 140 and CHEM 226)	BCHM 370 <i>or</i> BIOL 370 <i>or</i> CHEM 370	4	
	<b>OR</b>			
	Biochemistry I (pre-req BIOL 130, 140 and CHEM 226)	BCHM 470 <i>or</i> BIOL 470 <i>or</i> CHEM 470	4	
	Biochemistry II (pre-req BCHM 470)	BCHM 471 <i>or</i> BIOL 471 <i>or</i> CHEM 471	4	
<b>Math</b>	Introduction to Statistics	STAT 263	3	GEQT
	<b>OR</b>			
	Statistics required by your major, for example:	See ex on left		
	STAT 301, or PSYC 381, or HHS 410, or BENG 364			



Course Subject	Course Title	Course Number	Credit Hours	DDC*
Physics	Introductory Physics I (pre-req MATH 105)	PHYS 125+lab	4	GENS
	Introductory Physics II (pre-req PHYS 125)	PHYS 126+lab	4	GENS
	OR			
	General Physics I (pre-req MATH 115)	PHYS 150+lab	4	GENS
	General Physics II (pre-reqs PHYS 150 and MATH 116)	PHYS 151+lab	4	GENS
English or Writing Composition	Writing & Rhetoric I	COMP 105 or COMP 110	3	GEWO
	Writing & Rhetoric II	COMP 106 or COMP 220	3	GEWO
Social Sciences	Introduction to Psychology	PSYC 101	3	GESB
	Understanding Society	SOC 200	3	GESB
Critical Analysis & Reasoning	Critical Thinking (take in your 3 <sup>rd</sup> year or year you're taking the MCAT)	PHIL 233	3	GECC

**DDC\* = Dearborn Discovery Core**

GENS = Natural Sciences  
 GEWO = Written & Oral Communication  
 GEWI = Upper-Level Writing Intensive

GEQT = Quantitative Thinking/Problem Solving  
 GESB = Social & Behavioral Analysis  
 GECC = Critical & Creative Thinking

**Recommended** additional college courses (**required** by **some** medical schools):

- **Biology:** Anatomy & Physiology (A&P) I (BIOL 103) and/or A&P IIA (BIOL 105) or A&P IIB (BIOL 305) or Advanced Human A&P and Lab (BIOL 317/318)
- **Biology:** Human Physiology (BIOL 357) can be helpful for the MCAT.
- **English:** upper-level writing composition- (COMP 327) strongly suggested if you test out of Comp 105 and need two English writing classes.
- **Ethics:** Ethics (PHIL 240) or Medical Ethics (PHIL 442) [pre-req PHIL 240]
- **Psychology:** upper-level courses such as Life Span Development (PSYC 300), Social Psychology (PSYC 320), Cognitive Psychology (PSYC 363), or Abnormal Psychology (PSYC 440). pre-req for most courses is PSYC 101.
- **Sociology:** upper-level courses such as Medical Sociology (SOC 440), pre-req SOC 200.

**Please note:** Most Medical Schools will accept AP credit for introductory courses but not for upper-level courses. Check with your respective med schools' websites well before you apply.