

## Approved Pre-Med Course List for Wayne Med Direct Program

Courses included in this list are for:

1. MCAT Preparation
2. Providing an opportunity to demonstrate academic ability, specifically in the sciences
3. Satisfying the required and strongly recommended courses outlined by the Wayne State School of Medicine

Listed below are both the WSU SOM required and strongly recommended coursework and various pathways to fulfill each requirement. Because there is no one major that a pre-med student must choose, these options are laid out as a starting point. Each WMD student must individually consult with a pre-med advisor to confirm their plan of work

1. includes the appropriate coursework for medical school admissions and MCAT preparation
2. includes progressively challenging science coursework

All coursework highlighted must be completed by the fall semester of the third (junior) year in the WMD program in preparation for the MCAT.

WSU SOM Required & Recommended Coursework <sup>^</sup>	Pathways to fulfill at WSU <sup>^</sup>
<b>BIOLOGY</b>	
Two semesters of BIO with lab	BIO 1500/1501 (Basic Life Diversity) & BIO 1510/1511 (Basic Life Mechanisms)
	BIO 1510/1511 (Basic Life Mechanisms) & BIO 2870 (Anatomy and Physiology)
	BIO 1510/1511 (Basic Life Mechanisms) & BIO 3250/3251* (Molecular Mechanisms of BIO)
Cellular Biology (one course)	BIO 2600 (Introduction to Cell Biology)
	BIO 2250 (Fundamentals of Cell Biology for Neuroscience)
Physiology (one course)	BIO 3200 (Human Physiology)
	BIO 2870 (Anatomy and Physiology)
Upper-Level Biology (see advisor for #)	BIO 3070 (Genetics)
	BIO 3250/3251 (Molecular Mechanisms of BIO)
	BIO 4120 (Comparative Physiology)
	BIO 4630 (Histology)
<b>CHEMISTRY</b>	
Two semesters of general CHM with lab	CHM 1100/1130 (General Chemistry I) & CHM 1140/1150 (General Chemistry II)
Two semesters of organic CHM with lab	CHM 1240/1250 (Organic Chemistry I) & CHM 2220/2230 (Organic Chemistry II)
<b>BIOCHEMISTRY</b>	

One semester	BIO 3100 (Cellular Biochemistry)
	CHM 5600 (Survey of Biochemistry)
	CHM 6640+ (Metabolism)
<b>PHYSICS</b>	
Two semesters with lab	PHY 2130/2131 (Physics for Life Sciences I) & PHY 2140/2141 (Physics for Life Sciences II) (Algebra-based)
	PHY 2170/2171 (University PHY for Scientists I) & PHY 2180/2181 (University PHY for Scientists II) (Calculus-based)

\*BIO pathway is contingent upon completion of parts of the CHM requirements

+only an option for students who are biochemistry majors or minors

NOTE: lecture and lab courses should be taken concurrently

<b>BEHAVIORAL SCIENCES</b>	
Psychology (one course)	PSY 1010 (Introductory Psychology)
	PSY 1020 (Elements of Psychology)
Sociology (one course)	SOC 1010 (Understanding Human Society)
	SOC 1020 (Social Problems)
	PH 3100 (Social and Behavioral Aspects of PH)
<b>STATISTICS</b>	
One course	STA 1020 (Elementary Statistics)
	PH 3400 (Biostatistics)
	PSY 2030 (Statistical Methods in Psychology)
	MAT 2210 (Probability & Statistics)
	SOC 3220 (Intro to Social Statistics)
<b>ETHICS</b>	
One course	PHI 1110 (Ethical Issues in Healthcare)
	PHI 1120 (Professional Ethics)
	PHI 2320 (Introduction to Ethics)

^courses on these lists are subject to change at any time