



THE REED-YORKE HEALTH PROFESSIONS ADVISING OFFICE

COLLEGE OF COMPUTER, MATHEMATICAL, & NATURAL SCIENCES

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MEDICAL SCHOOL

These prerequisites are based on high frequency requirements at a majority of US medical schools. Individual school requirements may vary. You should refer to the Medical School Admission Requirements (MSAR) for specific program requirements. These are professional school requirements and should not be confused with academic major requirements. To count towards medical school, you must earn a C or better in these courses!

REQUIRED COURSES

Course	U of MD Course	Credits
___ Biology I	BSCI 170/171 (formerly 105)	4
___ Genetics	BSCI 222	4
___ Cell Biology & Physiology	BSCI 330	4
___ Chemistry I	CHEM 131 & 132 (lab) Or Chem 135/136 (lab)	4
___ Organic Chemistry I	CHEM 231 & 232 (lab)	4
___ Organic Chemistry II	CHEM 241 & 242 (lab)	4
___ Chemistry II	CHEM 271 & 272 (lab)	4
___ Biochemistry	BCHM 463 or 461	3-6
___ Physics I	PHYS 121, 131, 141 or 161/271*	4
___ Physics II	PHYS 122, 132, 142 or 260/261	4
___ Calculus I*	MATH 136, 120 or 140 (formerly 220 or 130)	3-4
___ English Composition	ENGL 101	3
___ Advanced Composition	ENGL 390-398	3
___ Liberal Arts	Open	6
(PSYC100 & SOCY100 Recommended – MCAT 2015)		

STRONGLY RECOMMENDED COURSES

These courses are often taken some time during the first year of professional school. Challenge yourself early and get introduced to the subject matter. This may help make your transition into the first year of medical school easier. In addition, students tend to perform better on the MCAT with some additional exposure to biology, beyond the minimum required by the medical schools.

Course	U of MD Course	Credits
___ Calculus II or STAT	any STAT required for major will count; BIOM 301 or STAT 464 are common for this	3-4
___ Microbiology	BSCI 223 or 283	4
___ Mammalian Physiology	BSCI440 (JR/SR only)	4
___ Intro to Psychology	PSYC100	3
___ Intro to Sociology	SOCY100	3

* Be sure to take the MATH and PHYS courses required by your academic major.

Engineering Majors are required to take the following:

Math 141 → Physics 161

Physics 260 & 261 (Following Semester)

Medical schools require two semesters of Physics with a lab. Students who have completed the first or the first two courses in the engineering sequence and decide to complete pre-med requirements have the following two options:

1. Students who have completed PHYS 161, 260, and 261 can take PHYS 270/271 and complete that sequence, which would result in students completing more than minimally required by medical schools;
2. PHYS161 is the first course in a three-semester sequence of courses intended for engineering majors and does not include a lab; the labs for this sequence are included with the second and third courses. Some pre-med students only take the first two courses (PHYS161 and PHYS260/261) in this sequence and need to complete an additional lab to satisfy a pre-med requirement. PHYS261 is a mechanics lab, normally taken concurrently with the PHYS260 lecture course. Students who don't need to take the third course in this sequence (PHYS270/271) may take PHYS271 as a stand-alone lab course to satisfy the pre-med physics requirement. PHYS271 is an electricity and magnetism lab

and is the most appropriate lab to take in this situation.

Students who take PHYS161 but take PHYS132 or 142 instead of continuing with the second course in the engineering major sequence should take PHYS261 to complete the additional physics lab requirement. PHYS132 and PHYS142 include the lab as part of the course. The labs for these courses are electricity and magnetism labs. So in this situation, the student would be missing a mechanics lab and should take PHYS261.

In a nutshell:

Option I: PHYS161, PHYS260, PHYS261, and PHYS271

Option II: PHYS161, PHYS132 or 142, and PHYS261.

AP courses: See our website: <http://www.prehealth.umd.edu/premedicine/apscores>

COURSE NUMBERS ARE SUBJECT TO CHANGE. UPDATED Summer 2019