

## Engineering Physics - Pre-Health Planning Guide

Please refer to Health Professions Advising Center [website](#) for additional pre-health information.

Medical School Requirement	Possible Degree Application
<b>Biology (8 credits)</b>	Advisor Approved Elective* (with permission of faculty advisor) - BIOMG 1350, and BIOG 1440 or 1445, and BIOG 1500
<b>Biochemistry (3/4 credits)</b>	Advisor Approved Elective* (with permission of faculty advisor) or Major Approved Elective+ (If approved by Director of Undergraduate Study.) - BIOMG 3310 and 3320 or BIOMG 3300 recommended.
<b>Upper-level Biology (3/4 credits)</b>	Advisor Approved Elective* (with permission of faculty advisor) or Major Approved Elective+ (If approved by Director of Undergraduate Study.) <ul style="list-style-type: none"> <li>Although not required, students find that taking upper level biology courses useful in understanding advanced concepts and providing greater depth of preparation for MCAT exams</li> </ul>
<b>General Chemistry (8 credits)</b>	CHEM 2090 - Engineering Common Curriculum Requirement CHEM 2080 or CHEM 2150 - Advisor Approved Elective* (with permission of faculty advisor).
<b>Organic Chemistry (8 credits)</b>	Advisor Approved Elective* (with permission of faculty advisor) or Major Approved Elective+ (If approved by Director of Undergraduate Study.) – CHEM 3570, CHEM 3580, and CHEM 2510 recommended.
<b>English (writing intensive) (6 credits)</b>	Engineering Common Curriculum Requirement (FWS)
<b>Math</b>	Calculus: MATH 1910 - Engineering Common Curriculum Requirement  Statistics: ENGRD 2700 – Engineering Distribution Requirement or Advisor Approved Elective* (with permission of faculty advisor) or Major Approved Elective+ (If approved by Director of Undergraduate Study.)
<b>General Physics (8 credits)</b>	PHYS 1110, 1112, 2213 and 2214 or Honors Sequence PHYS 1110, PHYS 1116, PHYS 2217, PHYS 2218, PHYS 2210 - Engineering Common Curriculum Requirement <ul style="list-style-type: none"> <li>Students complete the 8 credits of Physics requirements by completing PHYS 1112, and PHYS 2213 lectures and PHYS 1110 lab.</li> <li>Information covered in PHYS 2214 or 2218 is recommended for the MCAT.</li> <li>Some medical schools may require two semesters of Physics lab. If another semester of lab is necessary a student must complete PHYS 2214 or 2218 (with 2210).</li> </ul>
<b>Social Science</b>	Liberal Studies Requirement or Advisor Approved Elective* (with permission of faculty advisor) <ul style="list-style-type: none"> <li>The “Psychological, Social, and Biological Foundations of Behavior” section of the MCAT covers topics taught in social sciences. Taking courses in Sociology, Psychology, Human Development, and Developmental Sociology can prepare students.</li> </ul>

\*Engineering Physics requires 6 credits of advisor approved electives.

\*Engineering Physics requires major approved electives that consist of 6 total courses, technical in scope, 5 at the 3000+ level, with 9 credits outside of AEP.

These guides are based on the 2022-2023 degree requirements.

For the most up to date information, consult with Engineering Advising, major departments, or the current

[Engineering Undergraduate Handbook](#)

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