

## Chemical Engineering Pre-Health Planning Guide

Please refer to Cornell Career Services [Pre-Health Academic Preparation](#) website for additional course options.

Medical School Requirement	Possible Degree Application
<b>Biology (8 credits)</b>	Major Approved (Biology) Elective*
<b>Biochemistry (3/4 credits)</b>	BIOMG 3300 - Major Approved Elective* (with permission of faculty advisor) or Major Approved (Biology) Elective*
<b>Upper-level Biology (3/4 credits)</b>	Major Approved Elective* if level 3000 or above (with permission of faculty advisor) Or Advisor Approved Elective+ (with permission of faculty advisor) <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 CHEM 2080/CHEM 2150 – Fulfills Advisor Approved Elective+
<b>Organic Chemistry (8 credits)</b>	CHEM 3570 - Major Requirement, CHEM 3580 - Major Approved Elective* (with permission of faculty advisor) and CHEM 2510 - Major Requirement
<b>English (writing intensive) (6 credits)</b>	Engineering Common Curriculum (FWS)
<b>Math</b>	Calculus: MATH 1910 - Engineering Common Curriculum  Statistics: ENGRD 2700 or CEE 3040 (instead of MATH 2940)
<b>General Physics (8 credits)</b>	PHYS 1110, 1112, and 2213 - Engineering Common Curriculum <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 is recommended for the MCAT. If a student chooses not to take PHYS 2214, it is strongly encouraged that the student self-studies information covered in the course.</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.</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>

\*Chemical Engineering requires four major approved electives (includes the Biology Elective requirement).

+Chemical Engineering requires 6 credits of advisor approved electives (One will be CHEM 2080/CHEM 2150).

These guides are based on the 2021-2022 degree requirements.  
For the most up to date information, consult with Engineering Advising, major departments, or the current [Engineering Undergraduate Handbook](#)