

## Earth and Atmospheric Sciences

### 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>	<p>Biology Requirement (BIOMG 1350 or BIOG 1440).</p> <p>EAS students will need the additional biology course (BIOMG 1350 or BIOG 1440) and BIOG 1500 lab to fulfill 8 credits. Additional biology course(s) may be used toward Advisor-Approved Course in Math, Statistics, Computer Science, or Natural Science (with permission of faculty advisor), or towards Advisor-Approved Electives* or Outside Major Electives+.</p>
<b>Biochemistry (3/4 credits)</b>	<p>EAS majors concentrating on Biogeochemistry may count biochemistry towards concentration course requirements (with faculty advisor approval).</p> <p>Students concentrating in other concentrations could count a course in biochemistry as an Advisor-Approved Elective* (with permission of faculty advisor) or Outside Major Elective+.</p>
<b>Upper-level Biology (3/4 credits)</b>	<p>Advisor-Approved Elective* (with permission of faculty advisor) or Outside Major Elective+.</p> <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>	<p>CHEM 2090 - Engineering Common Curriculum CHEM 2080 – Engineering Common Curriculum</p>
<b>Organic Chemistry (8 credits)</b>	<p>Advisor-Approved Elective* (with permission of faculty advisor) or Outside Major Elective+.</p>
<b>English (writing intensive) (6 credits)</b>	<p>Engineering Common Curriculum (FWS)</p>
<b>Math</b>	<p>Calculus: MATH 1910 - Engineering Common Curriculum</p> <p>Statistics: May be used toward Advisor-Approved Course in Math, Statistics, Computer Science, or Natural Science (with permission of faculty advisor), or towards the student’s Advisor-Approved Electives* or Outside Major Electives+.</p>
<b>General Physics (8 credits)</b>	<p>PHYS 1110, 1112 and 2213 - Engineering Common Curriculum</p> <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>	<p>Liberal Studies Requirement or Advisor Approved Elective* (with permission of faculty advisor)</p> <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>

\*Earth and Atmospheric Sciences requires 6 credits advisor approved electives.

+Earth and Atmospheric Sciences includes 9 credits of courses outside the Major.

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](#)