

Earth and Atmospheric Sciences

Pre-Health Planning Guide

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

Medical School Requirement	Possible Degree Application
Biology (8 credits)	<p>Biology Requirement (BIOMG 1350 or BIOG 1440).</p> <p>EAS students will need the additional biology course not used for the Biology requirement (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>
Biochemistry (3/4 credits)	<p>BIOMG 3310 and 3320 or 3300 recommended.</p> <p>EAS majors concentrating on <i>Biogeochemistry</i> may count biochemistry as a concentration course requirement (with faculty advisor approval). Other EAS concentrations could count a course in biochemistry as an Advisor-Approved Elective* (with permission of faculty advisor) or Outside Major Elective+.</p>
Upper-level Biology (3/4 credits)	<p>Advisor-Approved Elective* (with permission of faculty advisor) or Outside Major Elective+.</p> <ul style="list-style-type: none"> 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
General Chemistry (8 credits)	<p>CHEM 2090 - Engineering Common Curriculum Requirement CHEM 2080 – Engineering Common Curriculum Requirement</p>
Organic Chemistry (8 credits)	<p>Advisor-Approved Elective* (with permission of faculty advisor) or Outside Major Elective+ - CHEM 3570, CHEM 3580, and CHEM 2510 recommended.</p>
English (writing intensive) (6 credits)	<p>Engineering Common Curriculum Requirement (FWS)</p>
Math	<p>Calculus: MATH 1910 - Engineering Common Curriculum Requirement</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>
General Physics (8 credits)	<p>PHYS 1110, 1112 and 2213 - Engineering Common Curriculum Requirement</p> <ul style="list-style-type: none"> Students complete the 8 credits of Physics requirements by completing PHYS 1112, and PHYS 2213 lectures and PHYS 1110 lab. 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. Some medical schools may require two semesters of Physics lab. If another semester of lab is necessary a student must complete PHYS 2214.
Social Science	<p>Liberal Studies Requirement or Advisor Approved Elective* (with permission of faculty advisor)</p> <ul style="list-style-type: none"> 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.

*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 2022-2023 degree requirements.

For the most up to date information, consult with Engineering Advising, major departments, or the current [Engineering Undergraduate Handbook](#)