

Environmental Engineering 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)	Intro Biology Requirement (BIOMG 1350 or BIOG 1440). Environmental Engineering students will need an additional biology not used for Intro Bio Requirement (BIOMG 1350 or BIOG 1440) and BIOG 1500 to fulfill 8 credits. The additional courses could be Advisor Approved Electives* (with permission of faculty advisor).
Biochemistry (3/4 credits)	Advisor Approved Elective* (with permission of faculty advisor) – BIOMG 3310 and 3320 or BIOMG 3300 recommended.
Upper-level Biology (3/4 credits)	Major Requirement - BIOMI 2900 could be used in place of CEE 4510 by petition. <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)	CHEM 2090 - Engineering Common Curriculum Requirement CHEM 2080 – Advisor Approved Elective*
Organic Chemistry (8 credits)	CHEM 3570 – Major Requirement (in place of CHEM 1570) CHEM 3580 and CHEM 2510 – Advisor Approved Elective* (with permission of faculty advisor).
English (writing intensive) (6 credits)	Engineering Common Curriculum Requirement (FWS)
Math	Calculus: MATH 1910 - Engineering Common Curriculum Requirement Statistics: CEE 3040 – Major Requirement (ENGRD 2700 could be petitioned for 3040 if take prior to affiliation).
General Physics (8 credits)	PHYS 1110, 1112 and 2213 - Engineering Common Curriculum Requirement <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	Liberal Studies Requirement or Advisor Approved Elective* (with permission of faculty advisor) <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.

*Environmental Engineering requires 6 credits of advisor approved electives.

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](#)