

Civil 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)	Additional Science Elective (BIOMG 1350 or BIOG 1440). Civil Engineering students will need the additional biology course (BIOMG 1350 or BIOG 1440) and BIOG 1500 lab to fulfill 8 credits. These would be acceptable as 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)	Advisor Approved Elective* (with permission of faculty advisor) <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 – Engineering Common Curriculum Requirement May substitute (in place of PHYS 2214 see note below regarding PHYS 2214) or use as an Advisor Approved Elective* (with permission of faculty advisor)
Organic Chemistry (8 credits)	Advisor Approved Electives* (with permission of faculty advisor) – CHEM 3570, 3580, and 2510 recommended.
English (writing intensive) (6 credits)	Engineering Common Curriculum Requirement (FWS) <ul style="list-style-type: none"> Most medical schools will accept First-Year Writing Seminars (FWS) in fulfillment of their writing requirement; however, writing-intensive courses from other disciplines may also be acceptable. Students are encouraged to check the requirements of specific medical schools as the English requirement varies.
Math	Calculus: MATH 1910 - Engineering Common Curriculum Requirement Statistics: CEE 3040 or ENGRD 2700 (as an option by petition) – Major Requirement
General Physics (8 credits)	PHYS 1110, 1112, 2213, and 2214 - 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.

*Civil 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](#)