# Biomedical Engineering

## Pre-Health Planning Guide

Please also refer to the Human Health Professionals [Guide for First- and Second-Year Pre-Med Students](#).

<table>
<thead>
<tr>
<th>Medical School Requirement</th>
<th>Possible Degree Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology (8 credits)</td>
<td>Major Requirement (BIOMG 1350, BME 2010, BIOG 1500)</td>
</tr>
<tr>
<td>Biochemistry (3/4 credits)</td>
<td>Advisor Approved Elective*</td>
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<tr>
<td>Upper-level Biology (3/4 credits)</td>
<td>Major Requirement</td>
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</tbody>
</table>
| General Chemistry (8 credits) | CHEM 2090 - Engineering Common Curriculum  
CHEM 2080 - Advisor Approved Elective* (with permission of faculty advisor) |
| Organic Chemistry (8 credits) | CHEM 3570 - Major Requirement (Replaces CHEM 1570)  
CHEM 3580 and CHEM 2510 - Advisor Approved Electives* (with permission of faculty advisor) |
| English (writing intensive) (6 credits) | Engineering Common Curriculum (FWS) |
| Math                       | **Calculus:** MATH 1910 - Engineering Common Curriculum  
**Statistics:** BTRY 3010, CEE 3040, or ENGRD 2700 (Engineering Distribution Requirement) |
| General Physics (8 credits) | PHYS 1112 and 2213 - Engineering Common Curriculum (students can petition PHYS 2208 to fulfill PHYS 2213)  
- Students complete the 8 credits of Physics requirements by completing PHYS 1112 and PHYS 2213. 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. PHYS 2214 could be an Advisor Approved Elective* (with permission of faculty advisor). |
| Social Science             | Liberal Studies Requirement or Advisor Approved Elective (with permission of faculty advisor)  
- 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. |

*Biomedical Engineering requires two advisor approved electives.

These guides are based on the 2020-2021 major degree requirements.
For the most up to date information, consult with Engineering Advising, major departments, or the current [Engineering Undergraduate Handbook](#).

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