Specific prerequisites vary widely from school to school. Please see summary attached and consult the published information from the school(s) to which you plan to apply.

<table>
<thead>
<tr>
<th>Course</th>
<th>U of MD Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology I</td>
<td>BSCI 170/171 (formerly 105)</td>
<td>4</td>
</tr>
<tr>
<td>Microbiology</td>
<td>BSCI 223 or 283</td>
<td>4</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>BCHM 461 or 463</td>
<td>3</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>CHEM 131 &amp; 132 (lab)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or CHEM 135/136 (lab)</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry I</td>
<td>CHEM 231 &amp; 232 (lab)</td>
<td>4</td>
</tr>
<tr>
<td>Organic Chemistry II</td>
<td>CHEM 241 &amp; 242 (lab)</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry II</td>
<td>CHEM 271 &amp; 272 (lab)</td>
<td>4</td>
</tr>
<tr>
<td>Physics I</td>
<td>PHYS 121, 131, 141 or 161***</td>
<td>4</td>
</tr>
<tr>
<td>Physics II</td>
<td>PHYS 122, 132, 142 or 260/261</td>
<td>4</td>
</tr>
<tr>
<td>Calculus I</td>
<td>MATH 120, 140 or 136 (formerly 220 or 130)</td>
<td>3-4</td>
</tr>
<tr>
<td>Calculus II**</td>
<td>MATH 221, 141 or 131</td>
<td>3-4</td>
</tr>
<tr>
<td>Statistics</td>
<td>any STAT required for major count; BIOM 301 or STAT 464 are common for this requirement</td>
<td>3</td>
</tr>
<tr>
<td>English Composition*</td>
<td>ENGL 101/ENGL 390-398</td>
<td>6</td>
</tr>
<tr>
<td>Psychology</td>
<td>PSYC 100</td>
<td>3</td>
</tr>
<tr>
<td>Humanities &amp; Social Sciences**</td>
<td>varies</td>
<td></td>
</tr>
</tbody>
</table>

*SAT exemption does not count as a course. Two ENGL courses are required by a number of OPT schools.

**Specific prerequisites vary widely from school to school. Please see the attached summary and consult the published information from the school(s) to which you plan to apply. Also be sure to take the MATH course required by your academic major.

***Engineering Majors are required to take the following:

Math 141 → Physics 161

Physics 260 & 261 (Following Semester)

Schools require two semesters of Physics with a lab. Students who have completed the first or the first two courses in the engineering sequence and decide to complete pre-med requirements have the following two options:

1. Students who have completed PHYS 161, 260, and 261 can take Phys 270/271 and complete that sequence, which would result in students completing more than minimally required by medical schools;

2. PHYS161 is the first course in a three-semester sequence of courses intended for engineering majors and does not include a lab; the labs for this sequence are included with the second and third courses. Some pre-med students only take the first two courses (PHYS161 and PHYS260/261) in this sequence and need to complete an additional lab to satisfy a pre-med requirement. PHYS261 is a mechanics lab, normally taken concurrently with the PHYS260 lecture course. Students who don't need to take the third course in this sequence (PHYS270/271) may take PHYS271 as a stand-alone lab course to satisfy the pre-med physics requirement. PHYS271 is an electricity and magnetism lab and is the most appropriate lab to take in this situation. Students who take PHYS161 but take PHYS132 or 142 instead of continuing with the second course in the engineering major sequence should take PHYS261 to compete the additional physics lab requirement. PHYS132 and PHYS142 include the lab as part of the course. The labs for these courses are electricity and magnetism labs. So in this situation, the student would be missing a mechanics lab and should take PHYS261.

In a nutshell:

Option I: PHYS161, PHYS260, PHYS261, and PHYS271
Option II: PHYS161, PHYS132 or 142, and PHYS261.

(Continued on next page)
STRONGLY RECOMMENDED COURSES

These courses are often taken some time during the first year of professional school. Challenge yourself early and get introduced to the subject matter. This may help make your transition into the first year of medical/dental school easier.

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<tr>
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<tbody>
<tr>
<td>Genetics</td>
<td>BSCI 222</td>
<td>4</td>
</tr>
<tr>
<td>Cell Biology &amp; Physiology</td>
<td>BSCI 330</td>
<td>4</td>
</tr>
<tr>
<td>Mammalian Physiology/Lab</td>
<td>BSCI 440/441 (JR/SR only)</td>
<td>4/2</td>
</tr>
</tbody>
</table>

COURSE NUMBERS ARE SUBJECT TO CHANGE. UPDATED Summer 2019