### Suggested Course of Study for a Premedical Student Obtaining a Major in Chemistry

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
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<tr>
<td>Principles of Structural Chemistry</td>
<td>Principles of Chemical Reactivity</td>
<td>Analytical Chemistry and lab</td>
<td>Seminar in Chemistry II</td>
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<tr>
<td>Calculus I</td>
<td>Calculus II</td>
<td>Biochemistry</td>
<td>Cell Physiology</td>
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<td>Cell and Molecular Biology</td>
<td>Organ. &amp; Ecol. Biology</td>
<td>2 electives</td>
<td>Experimental Human Physiology</td>
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<tr>
<td>General Biology laboratory</td>
<td>1 elective</td>
<td>2 electives</td>
<td>2 electives</td>
</tr>
<tr>
<td>1 elective</td>
<td></td>
<td>2 electives</td>
<td>4 electives(!)</td>
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</tbody>
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**Notes:**
Independent Study/Research is very helpful for those planning to apply to medical school, both because a strong research background helps in getting admitted to medical school and also because it may help you decide if you wish to pursue medical research after obtaining your degree.

MCATs are usually taken in April or August of the third year. As a result, it is best to have taken biology courses and physics by that point.
Checklist – Chemistry/pre-med major

__ CHM-155: Principles of Structural Chemistry
__ CHM-165: Principles of Chemical Reactivity
__ CHM-185: Organic Chemistry I
__ CHM-215: Analytical Chemistry
__ CHM-210: Analytical Chemistry Lab
__ CHM-225: Organic Chemistry II
__ CHM-235: Organic Laboratory
__ CHM-405: Biochemistry
__ CHM-415: Physical Chemistry I

__ MTH-135: Calculus I
__ MTH-145: Calculus II

__ PHY-216: General Physics I
__ PHY-226: General Physics II

__ CHM-705: Seminar in Chemistry I
  -and-
__ CHM-715: Seminar in Chemistry II
  -or-
__ OR-715,- 725: Study and Research at Oak Ridge Laboratory
  -and-
__ CHM-715: Seminar in Chemistry II

__ BIO 140 and 145: Cellular and Molecular Biology and laboratory
__ BIO 150 and 155: Organismal and Ecological Biology and laboratory
__ BIO 230 and 235: Genetics and laboratory
__ BIO 250 and 255: Experimental Human Physiology and laboratory
__ BIO 520 and 525: Cell Physiology and laboratory (strongly recommended)