CHEMISTRY AND BIOLOGY (COURSE 5-7)

Chemistry and Biology (http://catalog.mit.edu/interdisciplinary/undergraduate-programs/degrees/chemistry-biology)

Bachelor of Science in Chemistry and Biology

General Institute Requirements (GIRs)
The General Institute Requirements include a Communication Requirement that is integrated into both the HASS Requirement and the requirements of each major; see details below.

Summary of Subject Requirements

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Humanities, Arts, and Social Sciences (HASS) Requirement; at least two of these subjects must be designated as communication-intensive (CI-H) to fulfill the Communication Requirement.</td>
<td>8</td>
</tr>
<tr>
<td>Restricted Electives in Science and Technology (REST) Requirement [can be satisfied by 5.12 and 7.03 in the Departmental Program]</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Requirement (12 units) [can be satisfied by 7.003[J] or the combination of 5.351, 5.352, and 5.353 in the Departmental Program]</td>
<td>1</td>
</tr>
<tr>
<td>Total GIR Subjects Required for SB Degree</td>
<td>17</td>
</tr>
</tbody>
</table>

Physical Education Requirement
Swimming requirement, plus four physical education courses for eight points.

Departmental Program
Choose at least two subjects in the major that are designated as communication-intensive (CI-M) to fulfill the Communication Requirement.

Required Subjects

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>12</td>
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<tr>
<td>6</td>
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<td>6</td>
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<tr>
<td>12</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

Departmental Laboratory Requirement

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following options:
Option 1

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

Option 2

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
</tr>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

Restricted Electives
Select 30 units of the following:

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
</tr>
</tbody>
</table>

Chemistry and Biology (Course 5-7) | 3
### CHEMISTRY AND BIOLOGY (Course 5-7)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.33[j]</td>
<td>Evolutionary Biology: Concepts, Models and Computation</td>
</tr>
<tr>
<td>7.371</td>
<td>Biological and Engineering Principles</td>
</tr>
<tr>
<td></td>
<td>Underlying Novel Biotherapeutics</td>
</tr>
<tr>
<td>7.45</td>
<td>The Hallmarks of Cancer</td>
</tr>
<tr>
<td>7.46</td>
<td>Building with Cells</td>
</tr>
<tr>
<td>7.49[j]</td>
<td>Developmental Neurobiology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section</th>
<th>Units in Major That Also Satisfy the GIRs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted Electives</td>
<td>59-62</td>
</tr>
<tr>
<td>Units in Major</td>
<td>154-157</td>
</tr>
<tr>
<td>Units in Major That Also Satisfy the GIRs</td>
<td>(36)</td>
</tr>
</tbody>
</table>

**Total Units Beyond the GIRs Required for SB Degree**: 180

The units for any subject that counts as one of the 17 GIR subjects cannot also be counted as units required beyond the GIRs.

Subject has prerequisites that are outside of the program.