CHEMICAL ENGINEERING (COURSE 10-C)

Department of Chemical Engineering (http://catalog.mit.edu/schools/engineering/chemical-engineering/#undergraduatestext)

Bachelor of Science as Recommended by the Department of Chemical Engineering

Students planning to follow this curriculum must submit a statement of goals and a coherent program of subjects no later than the spring term of their junior year.

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>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Humanities, Arts, and Social Sciences (HASS) Requirement</td>
<td>8</td>
</tr>
<tr>
<td>Restricted Electives in Science and Technology (REST) Requirement</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Requirement (12 units)</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.

Departmental Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.60</td>
<td>Thermodynamics and Kinetics</td>
</tr>
<tr>
<td>10.10</td>
<td>Introduction to Chemical Engineering</td>
</tr>
<tr>
<td>10.213</td>
<td>Chemical and Biological Engineering Thermodynamics</td>
</tr>
<tr>
<td>10.301</td>
<td>Fluid Mechanics</td>
</tr>
<tr>
<td>10.302</td>
<td>Transport Processes</td>
</tr>
<tr>
<td>18.03</td>
<td>Differential Equations</td>
</tr>
</tbody>
</table>

Restricted Electives

Students must choose electives that form a coherent plan of study. Students must include two restricted electives selected according to the following lists.

Select one of the following:

- 3.014 Materials Laboratory (CI-M)
- 6.152[J] Micro/Nano Processing Technology (CI-M)
- 10.702[J] Introduction to Experimental Biology and Communication (CI-M)
- 10.26 Chemical Engineering Projects Laboratory (CI-M)
- 10.27 Energy Engineering Projects Laboratory (CI-M)
- 10.28 Chemical-Biological Engineering Laboratory (CI-M)
- 10.29 Biological Engineering Projects Laboratory (CI-M)
- 10.467 Polymer Science Laboratory (CI-M)

Select one additional subject from the above list or the following:

- 6.021[J] Cellular Neurophysiology and Computing (CI-M)
- 6.033 Computer Systems Engineering (CI-M)
- 6.111 Introductory Digital Systems Laboratory (CI-M)
- 14.05 Intermediate Macroeconomics (CI-M)
- 15.279 Management Communication for Undergraduates (CI-M)
- 15.301 People, Teams, and Organizations Laboratory (CI-M)

Units in Major

168

Unrestricted Electives

48

Units in Major That Also Satisfy the GIRs

(24-36)

Total Units Beyond the GIRs Required for SB Degree

180-192

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

1 18.032 Differential Equations is also an acceptable option.

2 If the student chooses to include a subject from the second list of Restricted Electives (6.021[J]-15.301), the subject must fit logically within the plan of study.