CHEMICAL ENGINEERING (COURSE 10)

Bachelor of Science in Chemical Engineering

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)</td>
<td>8</td>
</tr>
<tr>
<td>Requirement; at least two of these subjects must be designated as communication-intensive (CI-H) to fulfill the Communication Requirement.</td>
<td></td>
</tr>
<tr>
<td>Restricted Electives in Science and Technology (REST) Requirement [can be satisfied from among 5.12, 5.07[J] or 7.05, 5.611/5.612, 10.301, and 18.03 in the Departmental Program]</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Requirement (12 units) [can be satisfied by 5.310]</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>5.12</td>
</tr>
<tr>
<td>5.310</td>
</tr>
<tr>
<td>5.601</td>
</tr>
<tr>
<td>10.10</td>
</tr>
<tr>
<td>18.03</td>
</tr>
</tbody>
</table>

Intermediate Subjects

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.213</td>
</tr>
<tr>
<td>10.301</td>
</tr>
<tr>
<td>10.302</td>
</tr>
<tr>
<td>Select one of the following:</td>
</tr>
<tr>
<td>5.03</td>
</tr>
</tbody>
</table>

Restricted Electives

Select 21-30 units of restricted electives, including one from each category below:

One subject of at least 6 units in Chemical Engineering 2, 3

One subject of at least 9 units in Chemical Engineering 3

One engineering laboratory subject of at least 6 units 4

Units in Major 174-183

Unrestricted Electives 48

Units in Major That Also Satisfy the GIRs 36

Total Units Beyond the GIRs Required for SB Degree 186-195

The units for any subject that counts as one of the 17 GIR subjects cannot also be counted as units required beyond the GIRs.
2. 18.032 Differential Equations is also an acceptable option.

2. May be satisfied with a second term of 10.492A, 10.492B, 10.493, 10.494A, 10.494B, or a second term of 10.490 Integrated Chemical Engineering (with permission of instructor).

3. Graduate subjects may not be used as restricted electives. In addition, the following undergraduate subjects may not be used as restricted electives: 10.04, 10.792[J], 10.806, 10.910 and 10.911 Independent Research Problem, 10.UR and 10.URG Undergraduate Research, and 10.THU.

4. Consult the Chemical Engineering Student Office for a list of acceptable subjects.