## CHEMICAL ENGINEERING 2020-21

### PREPARATION FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 5</td>
<td>3</td>
</tr>
<tr>
<td>CHE 10</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1A, 1B, 1C or 2A, 2B, 2C</td>
<td>9</td>
</tr>
<tr>
<td>CHEM 1AL, 1BL, 1CL or 2AC, 2BC, 2CC</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 6AL-BL</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 109A or AH, 109B or BH</td>
<td>8</td>
</tr>
<tr>
<td>ENGR 3</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3A-B, 4A or 4AI, 4B or 4BI, 6A or 6AI, 6B</td>
<td>24</td>
</tr>
<tr>
<td>PHYS 1, 2, 3, 3L</td>
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</tr>
</tbody>
</table>

**Total Units:** 74

### UPPER DIVISION MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH E 107</td>
<td>3</td>
</tr>
<tr>
<td>CH E 110A-B</td>
<td>6</td>
</tr>
<tr>
<td>CH E 118</td>
<td>1</td>
</tr>
<tr>
<td>CH E 120A-B-C</td>
<td>10</td>
</tr>
<tr>
<td>CH E 128</td>
<td>3</td>
</tr>
<tr>
<td>CH E 132A-B-C</td>
<td>10</td>
</tr>
<tr>
<td>CH E 140A-B</td>
<td>6</td>
</tr>
<tr>
<td>CH E 152A</td>
<td>4</td>
</tr>
<tr>
<td>CH E 180A-B</td>
<td>6</td>
</tr>
<tr>
<td>CH E 184A-B</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 113B-C</td>
<td>8</td>
</tr>
<tr>
<td>MATRL 101 or MATRL 100B **^</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units:** 81

**Notes:**
- Technical Elective requirement: 15 units
  - Prior approval of the student's technical electives must be obtained from the undergraduate adviser.
  - At least 9 of the 15 units must be in the following departments in the College of Engineering: CH E, ECE, MATRL, ME
- Approved Technical Elective Requirement classes:
  - CH E 102
  - CHEM 109C
  - MATRL 160
  - CH E 121
  - CHEM 115A,B,C
  - MATRL 185
  - CH E 124
  - CHEM 123
  - MCD 101A,B
  - CH E 125
  - CHEM 126
  - MCD 111
  - CH E 126
  - CHEM 142A,B,C
  - MCD 126A,B,C
  - CH E 141
  - CHEM 145
  - MCD 133
  - CH E 146
  - CHEM 147
  - MCD 138
  - CH E 152B
  - CHEM 150
  - ME 110
  - CH E 154
  - ECE 130A,B,C
  - ME 112
  - CH E 160
  - ECE 183
  - ME 128
  - CH E 166
  - ENGR 101
  - ME 134
  - CH E 171
  - ENGR 103
  - ME 169
  - CH E 173
  - ENV S 105
  - ME 185
  - CH E 174
  - MATH 122A,B
  - PHYS 123A,B
  - CH E 196
  - MATRL 100A,C
  - PHYS 127A,L
  - CH E 198
  - MATRL 135
  - PHYS 127BL

**Notes:**
1. Three units maximum from CH E 196 and CH E 198 combined, only for students with GPA of 3.0 or higher.

### UNIVERSITY REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC Entry Level Requirement: English Composition</td>
<td></td>
</tr>
<tr>
<td>Must be fulfilled within three quarters of matriculation</td>
<td></td>
</tr>
<tr>
<td>American History and Institutions – (one 4-unit course, may be counted as G.E. if selected from approved list)</td>
<td></td>
</tr>
</tbody>
</table>

### GENERAL EDUCATION

**General Subject Areas**
- Area A: English Reading & Comprehension – (2 courses required)
- A-1: ___________ A-2: ___________

- Area D: Social Science – (2 courses minimum)

- Area E: Culture and Thought – (2 courses minimum)

- Area F: The Arts
  - (1 course minimum)
- Area G: Literature
  - (1 course minimum)

**Special Subject Areas**
- Ethnicity (1 course):

#### European Traditions
- or World Cultures (1 course):

#### Writing (4 courses required):

**NON-MAJOR ELECTIVES**

Free Electives taken:

**Total Units Required for Graduation:** 187

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To satisfy major requirements, courses taken inside or outside the Department of Chemical Engineering, must be taken for a letter grade.

[^^] see note on next page