# Master's Degree Plan of Study: Chemical and Biochemical Engineering

**Name (Last, First)**

**Student ID Number**

**E-mail Address**

**Campus Phone #**

**Quarter and Year Expected to Graduate**

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### Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
<th>Qtr/Yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction Engineering</td>
<td>210</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Transport Phenomena</td>
<td>220</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Applied Eng. Math</td>
<td>230</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Adv. Eng. Thermodynamics</td>
<td>240</td>
<td>4</td>
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</tr>
</tbody>
</table>

**Total Core Course Units:** 16

### Thesis Option (36 units)

- Students must fulfill a minimum of 3 quarters of CBEMS 298 (Department Seminar)

- Students must take 5 additional graduate elective courses numbered 200-289 (or 200-295 if offered by other departments) approved by the graduate advisor (3 units minimum/course)

- Up to 2 of these elective courses can be substituted by up to 8 units of CBEMS 296 (M.S. Thesis Research)

- 1 elective course may be substituted by an upper-division undergraduate elective course approved by CBE graduate Advisor

- Minimum of 16 units must be made up of 4 core courses

- Must complete a MS thesis

### Comprehensive Exam Option (36 units)

- Students must fulfill a minimum of 3 quarters of CBEMS 298 (Department Seminar)

- Students must take 5 additional graduate elective courses numbered 200-289 (or 200-295 if offered by other departments) approved by the graduate advisor (3 units minimum/course)

- 2 elective course may be substituted by an upper-division undergraduate elective course approved by CBE graduate Advisor

- Pass Comprehensive Exam

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### Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
<th>Qtr/Yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar</td>
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<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Total Elective Course Units:** 5

### Research/Other

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
<th>Qtr/Yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar</td>
<td>298</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Total Other Units:**

**Total Units:**

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**Signatures:**

**Candidate:** ___________________________  **Date:** __________

**Graduate Advisor:** ___________________________  **Date:** __________

**Associate Dean of Engineering:** ___________________________  **Date:** __________  092315