<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>Math 141 or 147 (4) FA, SP, SU</td>
<td>Math 130</td>
<td>English 101 or 118 (3) FA, SP, SU</td>
<td>EF 151 or 157 (4) FA, SP</td>
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<tr>
<td>Fall</td>
<td>Math 130</td>
<td>EF 105 (1) FA, SP</td>
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<td>16 hours</td>
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<tr>
<td><strong>Spring</strong></td>
<td>Math 142 or 148 (4) FA, SP, SU</td>
<td>Math 130 or 138 (4) FA, SP, SU</td>
<td>English 102 (3) FA, SP, SU</td>
<td>EF 152 or 158 (4) FA, SP</td>
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<tr>
<td>Spring</td>
<td>EF 151 or 157 (4) FA, SP</td>
<td>EF 151 or 157 (4) FA, SP</td>
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<tr>
<td><strong>Fall</strong></td>
<td>Math 231 (3) FA, SP, SU</td>
<td>CBE 201 (4) FA</td>
<td>CBE 235 (3) FA</td>
<td>Biology 140 or 148 (4) FA, SP, SU</td>
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<tr>
<td>Fall</td>
<td>EF 152/158 &amp; Chem 130/138</td>
<td>EF 152 or 158 (4) FA, SP</td>
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<tr>
<td><strong>Spring</strong></td>
<td>Chemistry 350 or 358 (3) FA, SP, SU</td>
<td>Math 241 or 247 (4) FA, SP, SU</td>
<td>CBE 250 (4) SP, SU</td>
<td>CBE 240 (4) SP, SU</td>
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<td>Spring</td>
<td>Math 231</td>
<td>EF 230 (2) FA, SP, SU</td>
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<td><strong>Fall</strong></td>
<td>CBE 340 (3) FA, SP, SU</td>
<td>CBE 301 (3) FA</td>
<td>CBE 310 (WC) (3) FA</td>
<td>Physics 231 (3) FA, SP, SU</td>
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<tr>
<td>Fall</td>
<td>CBE 201 and 250</td>
<td>EF 230 and Math 142 or 148</td>
<td>Restrictions: CBE major: 2.3 GPA.</td>
<td>Gen Ed (3) FA, SP, SU</td>
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<td><strong>Spring</strong></td>
<td>CBE 445 (3) FA</td>
<td>CBE 450 (3) FA</td>
<td>CBE 480 (3) FA</td>
<td>Bio Option I **(3) FA, SP, SU</td>
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<td>Spring</td>
<td>CBE 445 and 450</td>
<td>EF 230 and CBE 201, Math 231</td>
<td>CBE 480 and Chem 350 or 358</td>
<td>Gen Ed (3) FA, SP, SU</td>
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<td><strong>Fall</strong></td>
<td>CBE 401 (1) SP</td>
<td>CBE 480/490 (3) SP (OC)</td>
<td>CBE 350/450 (3) SP (OC)</td>
<td>CBE 480/490 (3) SP (OC)</td>
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<td>Fall</td>
<td>CBE 401</td>
<td>EF 230 and CBE 201, Math 231</td>
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<td>15 hours</td>
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</table>

* Chem Option I: Any 200 level or above BCMB courses; any 300-level or above CHEM courses; Environmental Engineering 554, 562; MISE 340, MISE 350; any 200-level or above MCR courses.
** Biology Option I: BCMB 230, BCMB 310, BCMB 321, BCMB 401, BCMB 402; BCMB 412; BIOL 240, BIOL 250; MCR 210, MCR 310, CBE 455
*** One technical elective must be a chemical and biomolecular engineering course, with the exclusion of CBE 457.

### Progression to Upper Division
Progression of students in the Department of Chemical and Biomolecular Engineering to departmental courses numbered 310 and above is competitive and is based on capacity. Factors considered include overall grade point average, performance in selected lower-division courses, and evidence of satisfactory and orderly progress through the prescribed curriculum.

### Upper-Division Status
A lower-division student must apply for progression to upper division status after completing CBE 201, CBE 235, CBE 240, and CBE 250 with a grade of C- or better in each course and an overall GPA of 2.3 or better.

### Provisional Status
Students who have completed CBE 201, CBE 235, and CBE 240 and CBE 250 with a final average of at least 2.3 may apply for provisional status. The granting of provisional upper-division status is based on availability of space in the departmental programs after upper-division status students have been accommodated. Provisional students are required to demonstrate the ability to perform satisfactorily in upper-division courses by completing a total of seven departmental courses with a grade of C or better in each course (including the four required for upper-division status). Permission to continue with upper-division classes depends on the minimum level of performance. Any student with an overall GPA below 2.1 will not be admitted to upper-division chemical and biomolecular engineering courses. Students who have not been admitted to upper-division or provisional status will be dropped from upper-division departmental classes.

Students also have opportunities for an Honors Concentration. See the Undergraduate Catalog for details and requirements.