## B.S. in Electrical Engineering

### Suggested 4-Year Academic Flowchart

**2020-2021 Catalog**

### Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus I</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH 141 (4)</td>
<td>MATH 142 (4)</td>
</tr>
<tr>
<td>(MAT 41 w/C - B1 &amp; B3)</td>
<td>(MAT 41 w/C - B1 &amp; B3)</td>
</tr>
</tbody>
</table>

### Sophomore

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Physics I</td>
<td>General Physics III</td>
</tr>
<tr>
<td>PHYS 141 (4)</td>
<td>PHYS 133 (4)</td>
</tr>
<tr>
<td>(PHYS 42 or 130)</td>
<td>(PHYS 140, 142)</td>
</tr>
</tbody>
</table>

### Junior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Engineering Ethics</td>
<td>Introduction to Occupational Health &amp; Safety</td>
</tr>
<tr>
<td>ENGR 112 (2)</td>
<td>ENGR 113 (2)</td>
</tr>
<tr>
<td>(CHM 103, 105)</td>
<td>(CHM 103, 105)</td>
</tr>
</tbody>
</table>

### Senior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Project I</td>
<td>Senior Project II</td>
</tr>
<tr>
<td>EE/ENGR 460 (3)</td>
<td>EE/ENGR 461 (3)</td>
</tr>
</tbody>
</table>

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**Notes:**

- General Education courses must be taken in the following sequence: Math, Science, Oral Communication, Technical Writing, and Senior Writing.
- **Major Courses:** Should be taken in the designated sequence.
- **Elective Courses:** Can be taken simultaneously to satisfy both Engineering Support and Technical Elective requirements.
- **Technical Elective Courses:** Can be taken previously or concurrently.
- **Expository Writing:** Can be taken anytime during Freshman Year.
- **Oral Communication:** Can be taken anytime during Freshman Year.
- **Technical Writing for Engineers:** Can be taken anytime during Freshman Year.
- **Graduation Writing Requirement:** Students must complete the requirement before the senior year.

**Legend:**

- **GE Area:**
  - General Education (40)
  - Technical Elective (20)
  - Major (87)
  - Support (65)
  - Approved Engineering Support Electives (3)

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**Expository Writing:** ENGL 133 or 134 (4)** (A2)

**Oral Communication:** CONS 101 or 102 (4)** (A1)

**Technical Writing for Engineers:** ENGL 149 (4)** (A3)

**Graduation Writing Requirement:** (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)

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**Notes:**

- **GE Courses:** Must be completed in the following areas: A1, A2, C1, C2, Lower-Division C Elective, Upper-Division C, D1, D2, Area D Elective, E. Upper-Division C electives should be taken only after Junior standing is reached (90 units).
- **Support Courses:** Can be taken simultaneously to satisfy both Engineering Support and Technical Elective requirements.
- **Technical Elective Courses:** Can be taken previously or concurrently.
- **Expository Writing:** Can be taken anytime during Freshman Year.
- **Oral Communication:** Can be taken anytime during Freshman Year.
- **Technical Writing for Engineers:** Can be taken anytime during Freshman Year.

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**Legend:**

- **GE Area:**
  - General Education (40)
  - Technical Elective (20)
  - Major (87)
  - Support (65)

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**Notes:**

- Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year.
- **Approved Engineering Support Electives:** Can be taken concurrently or previously.