### B.S. in MATERIALS ENGINEERING

**Suggested 4-Year Academic Flowchart**

**FALL:**
- **CEA Madrid, Spain**
  - Materials Engineering Design I
  - General Physics IA
  - Eng Writing

**SUMMER:**
- **TECNUN, Spain**
- Lucerne, Switzerland
  - Materials Engineering Design II
  - General Physics IB

**FALL:**
- **TECNUN, Spain**
  - Materials Engineering Design III
  - General Physics II

**SUMMER:**
- **Munich, Germany**
  - Materials Engineering Design IV
  - General Physics III

**FRESHMAN**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATE 110 (1)</td>
<td>MATE 120 (1) (MATE 110)</td>
<td>MATE 210 (3) (CHEM 124, PHYS 133, or PHYS 141)</td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATE 232 (4) (MATE 120)</td>
<td>Materials Laboratory III</td>
<td>MATE 325 (1) (MATE 210, Caeruc 131, or 141)</td>
</tr>
</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATE 235 (1) (MATE 220)</td>
<td>Linear Analysis I</td>
<td>CSC 231 (2) (MATH 142, PHYS 121)</td>
</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATE 236 (4) (MATE 220)</td>
<td>Programming for Engineering Students</td>
<td>EE 201 (3) &amp; EE 251 (1)</td>
</tr>
</tbody>
</table>

### Semester Abroad:

- **FALL 2nd Yr:** CEA Madrid, Spain
- **SUMMER 2nd Yr:** TECNUN, Spain
- **FALL 3rd Yr:** Lucerne, Switzerland
- **SUMMER 3rd Yr:** TECNUN, Spain
- **FALL 3rd Yr:** Munich, Germany
- **SUMMER 3rd Yr:** TECNUN, Spain
- **SPRING 3rd Yr:** Munich, Germany

### Approved Elective/Technical Breadth Elective

**Technical Elective**

**Technical Elective**

**Technical Elective**

### Graduation Requirements

- **Total:** 184-186 units

**TOTAL:**

184-186