Minimum of 12 units (Plan I) or 14 units (Plan II) must be 201+ ECE courses that must count towards your degree.

All courses counted towards the degree must be taken for a letter grade.

**Core Coursework (12 Units Including ECE 201) - Choose 2 Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 201</td>
<td>Intro to Biophysics</td>
</tr>
<tr>
<td>ECE 187*</td>
<td>Intro to Biomedical Imaging &amp; Sensing</td>
</tr>
<tr>
<td>ECE 202</td>
<td>Medical Devices &amp; Interfaces</td>
</tr>
<tr>
<td>ECE 203</td>
<td>Biomedical Integrated Circuits &amp; Systems</td>
</tr>
<tr>
<td>ECE 204</td>
<td>Statistical Learning in Bioinformatics</td>
</tr>
<tr>
<td>ECE 247 A-B-C</td>
<td>Advanced BioPhotonics, BioElectronics, BioNanotechnology</td>
</tr>
</tbody>
</table>

* Students can take BENG280A OR ECE 187, not both. Only one of these courses could count towards the degree.

**12 Additional Units Selected from the following:**

- Two CORE graduate courses from the same major area of ECE (AEM, AP-EDM, CTS, ECS, CE, ISRC, MI, MLDS, NDS, PHO, or SIP)
  - Please circle which one you chose so that it is reflected on your audit.
- One graduate or senior-level course in Biology, Biochemistry, or Medicine

Some examples of courses that satisfy this requirement are: BENG 230A, BENG 230B, BENG 231, NANO 242, BGGN 235, BGGN 211, BGGN 223, BGGN 224, BGGN 242, and BGGN 249B-C. This is by no means a comprehensive list of courses and many more courses in biology, biochemistry, and medicine are offered by UCSD to meet the requirement. PhD students should discuss with their faculty advisor and M.S. students with their curriculum advisor to choose course(s) in biomedicine relevant to their graduate study.

**Technical Electives (24 Units)**

- Any 4 unit, 200+ course from ECE, CSE, MAE, BENG, CENG, NANO, SE, MATS, MATH, or PHYS taken for a letter grade may be counted. Exceptions to this list require departmental approval.
- Up to 12 units of undergraduate ECE coursework (ECE 111+ only*) OR up to two 4-unit courses of undergraduate ECE coursework (ECE 111+ only*) and one 4-unit course of CSE undergraduate coursework (CSE 100+ only**) may be counted.
- MS students (Plan II) are allowed no more than 4 units of any Jacobs School of Engineering Research units as technical electives. PhD and MS students (Plan I) are allowed no more than 8 units of research as technical electives.
  - ECE 299, CSE 298/299, MAE 299, BENG 299, NANO 299, SE 299
- All courses counted towards the degree must be taken for a letter grade.
- Students are strongly encouraged to take as least 2 seminar courses about translational research and FDA regulatory procedures and requirements from ECE, Center for Medical Device and Instrumentation, School of Medicine, or other departments. (Will NOT be counted toward required 48 units).

* Not including ECE 195, 197, 198, 199 or 298

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**Curriculum Advisor:** Drew Hall  dahall@ucsd.edu (858)-534-3855

**Curriculum/Faculty Advisor:** Advises M.S. students regarding course selection; Considers any exception requests requiring faculty approval (such as course substitutions); Sign forms; Technical engineering related questions & job advice- PLEASE CONTACT YOUR STAFF ADVISOR FOR ALL OTHER ISSUES.