M.S. / Ph.D. Degree Planner: Electronic Circuits & Systems (EC78) 2020-2021

- Minimum of 12 units (Plan 1) 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) – one A-B-C Sequence from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ECE 264A-B-C-D*</td>
<td>CMOS Analog Integrated Circuits &amp; Systems I, II, III, IV</td>
</tr>
<tr>
<td>ECE 265A-B-C**</td>
<td>Communication Circuit Design I &amp; II, Power Amplifiers for Wireless Communications</td>
</tr>
</tbody>
</table>

*Students may take A-B-C or A-B-D to satisfy the core coursework requirement
**Students may take ECE 264A, B, C or D in places of ECE 265C

12 Additional Units Selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ECE 250</td>
<td>Random Processes</td>
</tr>
<tr>
<td>ECE 251A-B-C-D</td>
<td>Digital Signal Processing I &amp; II, Filter Banks &amp; Wavelets, Array Processing</td>
</tr>
<tr>
<td>ECE 264A-B-C-D</td>
<td>CMOS Analog Integrated Circuits &amp; Systems I, II, III, IV</td>
</tr>
<tr>
<td>ECE 265A-B-C</td>
<td>Communication Circuit Design I &amp; II, Power Amplifiers for Wireless Communications</td>
</tr>
</tbody>
</table>

**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 ECE 299 (research units) as technical electives. PhD and MS students (Plan I) are allowed no more than 8 units of ECE 299 as technical electives.
- With the exception of research units, all courses counted towards the degree must be taken for a letter grade.

* Not including ECE 195, 197, 198, 199 or 298
** Not including CSE 123A, 140, 140L, or 143

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Phone: (858)-534-4253

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.