

**M.S. / Ph.D. Degree Planner: Electronic Circuits & Systems (EC78) – 2018-2019**

**Core Coursework (12 Units), one A-B-C sequence from the following:**

|                 |  |
|-----------------|--|
| ECE 264A-B-C-D* | CMOS Analog Integrated Circuits & Systems I, II, III, IV |
| ECE 265A-B-C**  | Communication Circuit Design I & II, Power Amplifiers    |

\*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

| Quarter / Core Course |  |
|-----------------------|--|
|                       |  |
|                       |  |
|                       |  |
|                       |  |
| Total: 12 units       |  |

**12 additional units selected from the following:**

|                |   |
|----------------|---|
| ECE 222A-B-C-D | Antennas & System Applications, Applied Electromagnetic Theory, Electromagnetics & Computational Methods, Advanced Antenna Design |
| ECE 250        | Random Processes  |
| ECE 251A-B-C-D | Digital Signal Processing I & II, Filter Banks & Wavelets, Array Processing   |
| ECE 260A-B-C   | VLSI Digital System Algorithms & Architectures, Integrated Circuits & Systems Design, Advanced Topics                             |
| ECE 264A-B-C-D | CMOS Analog Integrated Circuits & Systems I, II, III, IV  |
| ECE 265A-B-C   | Communication Circuit Design I & II, Power Amplifiers   |

| Quarter / Additional Units |  |
|----------------------------|--|
|                            |  |
|                            |  |
|                            |  |
|                            |  |
| Total: 12 units            |  |

**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 course of undergraduate ECE coursework (ECE 111+ only\*) and one 4-unit course of CSE undergraduate coursework (CSE100+ 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.

| Quarter / Tech. Electives |  |
|---------------------------|--|
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|                           |  |
|                           |  |
|                           |  |
| Total: 24 units           |  |

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

|                                       |   |
|---------------------------------------|---|
| <b>Curriculum Advisor: Ian Galton</b> |   |
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\_\_\_\_\_  
 Advisor's Signature Date

\_\_\_\_\_  
 Print Student Name (Last, First) UCSD Email PID