

## M.S. / Ph.D. Degree Planner: Electronic Circuits and Systems (EC78)

### COURSE REQUIREMENTS

#### Core Coursework (twelve units)

**One A-B-C sequence selected from the following:**

- |                              |   |
|------------------------------|---|
| ECE 264 A-B-C-D <sup>1</sup> | CMOS Analog Integrated Circuits and Systems I, II, III and IV                       |
| ECE 265 A-B-C <sup>2</sup>   | Communication Circuit Design I and II, Power Amplifiers for Wireless Communications |

Core Courses	
<b>Total: 12 Units</b>	

<sup>1</sup> Students may take A-B-C or A-B-D to meet the one sequence core coursework requirement.

<sup>2</sup> Students may take ECE 264A, ECE 264B, ECE 264C or ECE 264D in place of ECE 265C.

#### Twelve additional units selected from the following

- |                              |   |
|------------------------------|---|
| ECE 222 A-B-C-D <sup>3</sup> | Antennas and Their System Applications, Applied Electromagnetic Theory - Electromagnetics and Computational Methods for Electromagnetics, Advanced Antenna Design |
| ECE 250                      | Random Processes  |
| ECE 251 A-B-C-D              | Digital Signal Processing I and II, Filter Banks & Wavelets, Array Processing   |
| ECE 260 A-B-C                | VLSI- Digital System Algorithms and Architectures, Integrated Circuits and Systems Design, Advanced Topics  |
| ECE 264 A-B-C-D              | CMOS Analog Integrated Circuits and Systems I, II, III and IV   |
| ECE 265 A-B-C                | Communication Circuit Design I and II, Power Amplifiers   |

Additional Courses	
<b>Total: 12 Units</b>	

<sup>3</sup> ECE course not offered during 2015-16 academic year.

#### Technical Electives (twenty-four units)

- With the exception of research units, all courses counted towards the degree must be taken for a letter grade.
- 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 two 4-unit courses of undergraduate ECE coursework (ECE 111+ only) and one 4-unit course of undergraduate CSE coursework (CSE 100+ only).
- M.S. Students (Plan II) are allowed no more than 4 units of 299 as technical electives. Ph.D. and M.S. Students (Plan I) are allowed no more than 8 units of 299 as technical electives.

Technical Electives	
<b>Total: 24 Units</b>	

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**Advisor's Signature**

**Date**

**Student Name**

**PID**