

**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**