

M.S. / Ph.D. Degree Planner: Electronic Circuits & Systems (EC78) 2021-2022

- ❖ Minimum of 12 units (Plan I) or 16 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, with the exception of research units.
- ❖ Students **CANNOT** repeat a course unless they earned a D, F, U, or W grade. If you'd like to repeat a course, please submit the [online form](#). More information about how to repeat a course can be found [here](#).
- ❖ Note that **ONLY** 100+ courses will count towards your overall GPA.
- ❖ Must meet the Academic Residency requirement. More info can be found [here](#).

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 for Wireless Communications

* For the ECE 264 series, students may take A-B-C or A-B-D to satisfy the core coursework requirement. B- grade or higher needs to be earned in order to move onto the next part of the sequence. No exceptions.

**For the ECE 265 series, students may take ECE 264A, B, C or D in places of ECE 265C.

Quarter/Core Courses	
Total: 12 Units	

12 Additional Units Selected from the following:

ECE 203	Biomedical Integrated Circuits and Systems
ECE 222A-B-C-D	Antennas & Their System Applications, Applied Electromagnetic Theory-Electromagnetics & Computational Methods for Electromagnetics, 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 for Wireless Communications

Quarter/Add. Units	
Total: 12 Units	

Quarter/Tech. Electives	
Total: 24 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 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
- ❖ 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, 210 or 298
** Not including CSE 123, 140, 140L, or 143

*** Seminar courses cannot count towards your degree

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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.**