

- ❖ 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 and for **4 units**, with the exception of research units.
- ❖ Students **CANNOT** repeat a course unless they earned a D, F, or U 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](#).
- ❖ Must meet the Academic Residency requirement. More detailed info can be found [here](#).

Core Courses (12 Units)

ECE 230A-B-C	Solid State electronics I, II, III
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Any two of the following 12 unit sequences (24 units)

ECE 212AN-BN-CN	Principles of NanoScience & NanoTechnology, NanoElectronics, NanoPhotonics
ECE 222A-B-C	Antennas & Their System Applications, Applied Electromagnetic Theory- Electromagnetics, Computational Methods for Electromagnetics
ECE 236A-B-C	Fundamentals of Heterostructure Materials and Devices, Optical Processes in Semiconductors, Heterojunction Field Effect Transistors
ECE 238A-B, MATS 201C	Thermodynamics of Solids, Solid State Diffusion & Reaction Kinetics, Phase Transformations
ECE 240A-B-C	Laser & Optics, Optical Information Processing, Optical Modulation & Detection
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
MATH 210A-B-C	Mathematical Methods in Physics & Engineering
PHYS 211A, 212A-B	Solid-State Physics I, Quantum Mechanics I & II

* Students may choose any of three courses from the ECE 251 series

Technical Electives (12 Units)

- ❖ Any 4 unit, 200+ course from ECE, CSE, MAE, BENG, CENG, NANO, SE, MATS, MATH, 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.
- ❖ M.S. students (Plan II) are allowed no more than 4 units of any Jacobs School of Engineering Research units as technical electives. Ph.D. and M.S. 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

* 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

Curriculum Advisor

EC76 Advisor: Shadi Dayeh
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Phone: (858) 534-5171

Role: Advises graduate students regarding course selection; Considers any exception requests requiring faculty approval; Signs forms; Technical engineering related questions & job advice.

PLEASE CONTACT [YOUR STAFF ADVISOR](#) FOR ALL OTHER ISSUES.

Quarter/Core Courses	
	ECE 230A
	ECE 230B
	ECE 230C
Total: 12 Units	

Quarter/Add. Courses	
Total: 24 Units	

Quarter/Tech. Electives	
Total: 12 Units	