

- ❖ 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 212AN	Principles of Nanoscience & Nanotechnology
ECE 212BN	Nanoelectronics
ECE 212CN	Nanophotonics

Quarter/Core Courses	
	ECE 212AN
	ECE 212BN
	ECE 212CN
Total: 12 Units	

Additional Coursework (12 units) 3 courses from the same group

ECE 222A-B-C	Antennas & Their System Applications, Applied Electromagnetic Theory - Electromagnetics & Computational Methods for Electromagnetics
ECE 230A-B-C	Solid State Electronics I, II, III
ECE 236A-B-C ECE 235	III-V Compound Semiconductor Materials, Optical Processes in Semiconductors, Heterojunction Field-Effect Transistors, Nanometer-Scale VLSI Devices
ECE 240A-B-C	Lasers & Optics, Optical Information Processing, Optical Modulation & Detection
ECE 247A*-B-C, ECE 201, 202, 203	Advanced BioPhotonics, BioElectronics, BioNanotechnology, Intro to Biophysics, Medical Devices & Interfaces, Biomedical Integrated Circuits & Systems
MATH 210A-B-C, ECE 250, ECE 269	Mathematical Methods in Physics & Engineering, Random Processes, Linear Algebra & Application
PHYS 211A, PHYS 212A-B	Solid State Physics, Quantum Mechanics I, II

Quarter/Add. Courses	
Total: 12 Units	

*Students may take BENG 247A/NANO 247A in place of ECE 247A. May only receive credit for one of these courses towards their degree.

Technical Electives (24 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 research 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

Quarter/Tech. Electives	
Total: 24 Units	

* Seminar courses cannot count towards your degree
 ** Not including ECE 195, 197, 198, 199, 210 or 298
 *** Not including CSE 123, 140, 140L, or 143

Curriculum Advisor

EC86 Advisor: Shadi Dayeh
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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.