- 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 <u>online form</u>. More information about how to repeat a course can be found <u>here</u>.
- Must meet the Academic Residency requirement. More detailed info can be found <u>here</u>.

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		
Quarter/Add. Courses		
Total: 12 Units		
Quarter/Tech. Electives		

Total: 24 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
ЕСЕ 240А-В-С	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

*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 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

EC86 Advisor: Shadi Dayeh Email: sdayeh@ucsd.edu 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.**