- 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 <u>here.</u>
 Must meet the Academic Residency requirement. More detailed info can be found <u>here.</u>

Core Courses (1 ECE 230A-B-C	Solid State electronics I, II, III	Quarter (List FA##, WI##, SP## below)	Core Courses
		J	ECE 230A
Any two of the following 12 unit sequences (24 units)		,	ECE 230B
ECE 212AN-BN-CN	Principles of NanoScience & NanoTechnology, NanoElectronics, NanoPhotonics		ECE 230C
ECE 222A-B-C	Antennas & Their System Applications, Applied Electromagnetic Theory- Electromagnetics, Computational Methods for Electromagnetics	Total: 12 Units Quarter (List FA##, WI##, SP## below)	Additional Units
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	Total: 24 Units	
ECE 260A-B-C	VLSI Digital System Algorithms & Architectures, Integrated Circuits & Systems Design, Advanced Topics	Quarter (List FA##, WI##, SP## below)	Technical Electives
MATH 210A-B-C	Mathematical Methods in Physics & Engineering		Electives
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)		Total: 12 Units	

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 research as technical electives. Ph.D. and M.S. students (Plan I) are allowed no more than 8 units of research as technical electives.
 - The following research course(s) could be used toward the degree:
 - ECE 299, CSE 293/298/299, MAE 299, BENG 299, NANO 299, SE 299, DSC 299
- * Seminar courses cannot count towards the degree
- ** Not including ECE 195, 197, 198, 199, 210 or 298
- *** Not including CSE 123, 140, 140L, or 143

Curriculum Advisor

EC76 Advisor Contact Information

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.