

- ❖ [All ECE M.S. degree requirements](#) must be successfully completed within the 6 quarter ECE M.S. program time limit.
- ❖ 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 222A-B-C-D	Antennas & Their System Applications, Applied Electromagnetic Theory-Electromagnetics, Computational Methods for Electromagnetics, Advanced Antenna Design
----------------	--

12 Additional Units Selected from the following

ECE 212AN-BN-CN	Principles of Nanoscience & Nanotechnology, Nanoelectronics, Nanophotonics
ECE 221	Magnetic Materials: Principles and Applications
ECE 222A-B-C-D*	Antennas & Their System Applications, Applied Electromagnetic Theory-Electromagnetics, Computational Methods for Electromagnetics, Advanced Antenna Design
ECE 230A-B-C	Solid State Electronics I, II ,III
ECE 236A-B	Fundamentals of Heterostructure Materials and Devices, Optical Processes in Semiconductors
ECE 240A-B-C	Lasers & Optics, Optical Information Processing, Optical Modulation & Detection
ECE 251A-B-C	Digital Signal Processing I, II, Filter Banks and Wavelets
ECE 258A-B	Digital Communications I, II
ECE 264A-B-C	CMOS Analog Integrated Circuits & Systems I, II, III
ECE 265A-B-C	Communication Circuit Design I, II, Power Amplifiers for Wireless Communications

* A course not counted in core coursework may be counted here.

Technical Electives (24 Units)

- ❖ Any 4 unit, 200+ course from ECE, CSE, MAE, BENG, CENG, NANO, SE, MATS, MATH, PHYS or COGS 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 courses numbered: 195, 197, 198, 199, 210 or 298

*** Not including CSE courses numbered: 123, 140, 140L, 143 or 294

Curriculum 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.

Quarter (List FA##, WI##, SP## below)	Core Courses
Total: 12 Units	
Quarter (List FA##, WI##, SP## below)	Additional Units
Total: 12 Units	
Quarter (List FA##, WI##, SP## below)	Technical Electives
Total: 24 Units	