

M.S. / Ph.D. Degree Planner: Computer Engineering (EC79) 2021-2022

- ❖ Minimum of 12 units (Plan I) or 14 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 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 [online form](#). More information about how to repeat a course can be found [here](#).
- ❖ Note that **ONLY** 100+ courses will count towards your overall GPA.
- ❖ Must meet the Academic Residency requirement. More detailed info can be found [here](#).

Core Coursework (4 Units):

ECE 260B	VLSI Integrated Circuits & Systems Design
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Quarter/Core Course	
	ECE260B
Total: 4 Units	

20 Additional Units Selected from the following:

ECE 250	Random Processes
ECE 251A	Digital Signal Processing I
ECE 252A	Speech Compression
ECE 253	Fundamentals of Digital Image Processing
ECE 254	Detection Theory
ECE 257A-B	Modern Communication Networks, Principles of Wireless Networks
ECE 258A-B	Digital Communication
ECE 260A, C	VLSI Digital System Algorithms & Architectures, VLSI Advanced Topics
ECE 265A	Communication Circuit Design I
ECE 267	Wireless Embedded & Networked Systems
CSE 202	Algorithm Design & Analysis
CSE 221	Operating Systems
CSE 222B	Internet Algorithms
CSE 237A	Intro to Embedded Computing
CSE 240A	Principles of Computer Architecture
CSE 243A	Intro to Synthesis Methodologies in VLSI CAD
CSE 245	Computer Aided Circuit Simulation & Verification
CSE 224	Graduate Networked System

Quarter/Add. Units	
Total: 20 Units	

Technical Electives (24 Units)

- ❖ Any 4 unit, 200+ course from ECE, CSE, MAE, BENG, CENG, NANO, SE, MATS, MATH, or PHYS taken for a letter grade may be counted. Exceptions to this list require departmental approval.
 - ❖ Up to 12 units of undergraduate ECE/CSE coursework (ECE 111+* and CSE 100+ only**)
 - ❖ MS students (Plan II) are allowed no more than 4 units of any Jacobs School of Engineering Research units as technical electives. PhD and MS 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
 - ❖ All courses counted towards the degree must be taken for a letter grade.
- * Not including ECE 195, 197, 198, 199, 210 or 298
** Not including CSE 123, 140, 140L, or 143

Quarter/Tech. Electives	
Total: 24 Units	

Curriculum Advisor: Yatish Turakhia yturakhia@ucsd.edu (858) 534-4493
Curriculum/Faculty Advisor: Advises M.S. students regarding course selection; Considers any exception requests requiring faculty approval (such as course substitutions); Sign forms; Technical engineering related questions & job advice- **PLEASE CONTACT [YOUR STAFF ADVISOR](#) FOR ALL OTHER ISSUES.**