UC San Diego
Electrical and Computer Engineering

ECE Graduate Student Affairs
EBU 1, 2nd Floor
ece-gradoffice@ece.ucsd.edu

M.S. / Ph.D. Degree Planner: Computer Engineering (EC79) 2020-2021

- Minimum of 12 units (Plan 1) or 14 units (Plan II) must be 201+ ECE courses that must count towards your degree.
- 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.
- All courses counted towards the degree must be taken for a letter grade with exception of research units.
- Note that **ONLY** 100+ courses will count towards your overall GPA.

Core Coursework (4 Units):

ECE 260B	VLSI Integrated Circuits & Systems Design

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 Algorithmics
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 ECE 299 (research units) as technical electives. PhD and MS students (Plan I) are allowed no more than 8 units of ECE 299 as technical electives.
- All courses counted towards the degree must be taken for a letter grade.

* Not including ECE 195, 197, 198, 199 or 298
** Not including CSE 123A, 140, 140L, or 143

Quarter/Tech. Electives	
Total: 24 Units	

Curriculum Advisor: Andrew Kahng abk@ucsd.edu (858) 822-4884
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.**