

M.S. / Ph.D. Degree Planner: Computer Engineering (EC79) – 2018-2019

Minimum of 12 units (Plan 1) or 16 units (Plan II) must be ECE courses.

NOTE: Computer Engineering is impacted, this major can only be selected at the time of application/admission to UCSD

Core Coursework (4 Units)

ECE 260B	VLSI Integrated Circuits & Systems Design
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Quarter / Core Course	
	ECE 260B
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	Multuser Communication Systems, 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

Quarter / Additional 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**) OR up to two 4-unit course of undergraduate ECE coursework (ECE 111+ only*) and one 4-unit course of CSE undergraduate coursework (CSE100+ only**) may be counted.
- 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.

Quarter / Tech. Electives	
Total: 24 units	

* Not including ECE 195, 197, 198, or 199

** Not including CSE 123A, 140, 140L, or 143

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Advisor's Signature _____ Date _____

Print Student Name (Last, First) _____ UCSD Email _____ PID _____

