

M.S. / Ph.D. Degree Planner: Photonics (EC81) – 2018-2019

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.

Core Coursework (12 Units):

ECE 240A	Lasers and Optics
ECE 240B	Optical Information Processing
ECE 240C	Optical Modulation and Detection I

Quarter / Core Course	
	ECE 240A
	ECE 240B
	ECE 240C
Total: 12 units	

Additional Coursework (12 units) select from the following:

ECE 212CN*	Nanophotonics
ECE 222B-C	Applied Electromag. Theory for Electromagnetics, Electromagnetics & Computational Methods
ECE 236B	Semiconductors: Optical Processes
ECE 241A-B-C	Nonlinear Optics, Integrated Photonics, Holographic Optical Elements
ECE 243B	Optical Fiber Communication
ECE 244A	Statistical Optics
ECE 247A	Advanced Biophotonics

Quarter / Additional Units	
Total: 12 units	

*Students cannot receive credit for both ECE 212C & 212CN.

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.
- Any of the courses listed above if not counted for Core or Additional coursework
- Up to 12 units of undergraduate ECE coursework (ECE 111+ 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.
- With the exception of research units, 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, 199, or 298.

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

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Advisor's Signature

Date

Print Student Name (Last, First)

UCSD Email

PID