

- ❖ 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 240A | Lasers and Optics |
| ECE 240B | Optical Information Processing |
| ECE 240C | Optical Modulation and Detection |

| Quarter/Core Courses | |
|------------------------|----------|
| | ECE 240A |
| | ECE 240B |
| | ECE 240C |
| Total: 12 Units | |

12 Additional Units Selected from the following

| | |
|--------------|--|
| ECE 212CN | Nanophotonics |
| ECE 222B-C | Applied Electromagnetic Theory – Electromagnetics & Computational Methods for Electromagnetics |
| ECE 236B | Optical Processes in Semiconductors |
| 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/Add. Courses | |
|------------------------|--|
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| | |
| | |
| Total: 12 Units | |

*Students may take BENG 247A/NANO 247A in place of ECE 247A. May only receive credit for one of these courses towards their degree.

Technical Electives (24 Units)

| Quarter/Tech. Electives | |
|-------------------------|--|
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| Total: 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 ECE Department 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, MATS 299, BENG 299, NANO 299, SE 299

*Seminar courses cannot count towards your degree

** Not including ECE 195, 197, 198, 199, 210 or 298

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

Curriculum Advisor

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Curriculum Advisor Role: Advises graduate students regarding course selection; considers any exception requests requiring faculty approval; signs forms; provides technical engineering related questions and job advice.

PLEASE CONTACT [YOUR STAFF ADVISOR](#) FOR ALL OTHER ISSUES.