

- ❖ 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 (8 Units)

BENG 280A OR ECE 207A	Principles of Bioengineering OR Principles of Medical Imaging
BENG 280B	Comparative Biomedical Imaging

### 16 Additional Units Selected from the following

BENG 280C	Imaging Cardiovascular Disease
BENG 235	Molecular Imaging and Quantitation in Living Cells
BENG 278	Magnetic Resonance Imaging
ECE 247A/BENG 247A /NANO 247A*	Advanced Biophotonics
ECE 250	Random Processes
ECE 253	Fundamentals of Digital Image Processing
ECE 269	Linear Algebra and Application
ECE 273	Convex Optimization and Applications
ECE 275A	Parameter Estimation I

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

### Writing/Presentation (4 Units)

BENG 224	Regulatory Affairs
BENG 225	Business of Biotech

Quarter/Writing/Presentation	
Total: 4 Units	

### Human Physiology, Pathology, or Anatomy (4 Units)

BIPN 100	Human Physiology I
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Quarter/Human Physiology	
	BIPN 100
Total: 4 Units	

### Technical Electives (16 Units)

- ❖ Any 4 unit, 200+ course from ECE, CSE, DSC, MAE, BENG, CENG, NANO, SE, MATS, MATH, PHYS or COGS taken for a letter grade may be counted. \* Exceptions to this list require departmental approval.
- ❖ 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 (CSE 100+ only\*\*\*) may be counted.
- ❖ M.S. students (Plan II) are allowed no more than 4 units of research units 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, BENG 299, NANO 299, SE 299, DSC 299

\* Seminar courses cannot count towards the degree

\*\* Not including ECE courses numbered: 195, 197, 198, 199, 210 or 298

\*\*\* Not including CSE courses numbered: 123, 140, 140L, 143 or 294

### Curriculum Advisor

#### EC95 Advisor Contact Information

Role: Advises graduate students regarding course selection; Considers any exception requests requiring faculty approval; Signs forms; Technical engineering related questions & job advice.

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

Quarter (List FA##, WI##, SP## below)	Core Courses
	BENG 280A OR ECE 207A
	BENG 280B
Total: 8 Units	

Quarter (List FA##, WI##, SP## below)	Additional Units
Total: 16 Units	

Quarter (List FA##, WI##, SP## below)	Technical Electives
Total: 16 Units	