

- ❖ 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, with the exception of research units.
- ❖ 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](#).
- ❖ Must meet the Academic Residency requirement. More detailed info can be found [here](#).

Core Courses: BENG 280A/B OR ECE 207A (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, 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 any Jacobs School of Engineering 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.
 - ECE 299, CSE 298/299, MAE 299, BENG 299, NANO 299, SE 299

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

*** Seminar courses cannot count towards your degree

Curriculum Advisor

EC95 Advisor: Vikash Gilja
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Phone: (858) 822-0685

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/Core Courses	
	BENG 280A OR ECE 207A
	BENG 280B
Total: 8 Units	

Quarter/Add. Courses	
Total: 16 Units	

Quarter/Tech. Electives	
Total: 16 Units	