

- ❖ 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                                |

| Quarter/Core Courses  |                          |
|-----------------------|--------------------------|
|                       | BENG 280A<br>OR ECE 207A |
|                       | BENG 280B                |
| <b>Total: 8 Units</b> |                          |

**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                             |

| Quarter/Add. Courses   |  |
|------------------------|--|
|                        |  |
|                        |  |
|                        |  |
|                        |  |
| <b>Total: 16 Units</b> |  |

\*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 |  |
|------------------------------|--|
|                              |  |
| <b>Total: 4 Units</b>        |  |

| Quarter/Tech. Electives |  |
|-------------------------|--|
|                         |  |
|                         |  |
|                         |  |
|                         |  |
| <b>Total: 16 Units</b>  |  |

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

|          |                    |
|----------|--------------------|
| BIPN 100 | Human Physiology I |
|----------|--------------------|

| Quarter/Human Physiology |          |
|--------------------------|----------|
|                          | BIPN 100 |
| <b>Total: 4 Units</b>    |          |

**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 298/299, MAE 299, BENG 299, NANO 299, SE 299, DSC 299

\* Seminar courses cannot count towards the degree  
 \*\* Not including ECE 195, 197, 198, 199, 210 or 298  
 \*\*\* Not including CSE 123, 140, 140L, or 143

**Curriculum Advisor**

EC95 Advisor: Florian Meyer  
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 Phone: (858) 246-5016

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.**