

M.S. / Ph.D. Degree Planner: Medical Imaging (EC95) 2020-2021

- ❖ Minimum of 12 units (Plan II) 14 units (Plan I) must be 201+ ECE courses that must count toward your degree.
- ❖ 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](#).
- ❖ All courses counted towards the degree must be taken for a letter grade
- ❖ Note that **ONLY** 100+ courses will count towards your overall GPA.

Core Coursework: BENG 280A/B OR ECE 207A/B (8 Units)

BENG 280A OR ECE 207A	Principles of Bioengineering OR Principles of Medical Imaging
BENG 280B OR ECE 207B	Comparative Biomedical Imaging OR *MISSING COURSE NAME (NOT ON COURSE CATALOG)

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

16 Additional Units Selected from the following:

ECE 217	Molecular Imaging
BENG 279	Quantitative Cardiovascular Imaging
BENG 235	Molecular Imaging and Quantitation in Living Cells
BENG 278	Magnetic Resonance Imaging
SOMI 277A	fMRI Foundations
SOMI 277B	fMRI Advanced Topics
ECE 247A OR BENG 247A OR 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. Units	
Total: 16 Units	

Writing/Presentation (4 Units)

ECE 189	Technical Public Speaking (2 units)
ENG 100B	Engineering Leadership (2 units)

Quarter/ Writing/Presentation	
	ENG 189
	ENG 100B
Total: 4 Units	

Human Physiology, Pathology, or Anatomy (4 Units)

BILD 26	Human Physiology
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Quarter/ Human Physiology	
	BILD 26
Total: 4 Units	

Technical Electives (16 Units)

- ❖ 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
- ❖ With the exception of research units, all courses counted towards the degree must be taken for a letter grade.
- ❖ Any 100- or 200-level courses in ECE**, BENG, CSE, MAE, NANO.
- ❖ *Exclude ECE 195, 197, 198, 199, or 298
- ❖ 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.

Quarter/Tech.Electives	
Total: 16 Units	

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Curriculum Advisor (Winter/Spring): Vikash Gilja vgilja@ucsd.edu  (858)-822-0685

Curriculum/Faculty Advisor: Advises M.S. students regarding course selection; Considers any exception requests requiring faculty approval (such as course substitutions); Sign forms; Technical engineering related questions & job advice- **PLEASE CONTACT YOUR STAFF ADVISOR FOR ALL OTHER ISSUES.**