

M.S. / Ph.D. Degree Planner: Applied Ocean Sciences

COURSE REQUIREMENTS

Minimum of 12 units (Plan I) or 16 units (Plan II) must be ECE courses

Core Coursework (twenty units)

SIO 214 A	Introduction to Fluid Mechanics
SIO 202 A-B	Fundamentals of Wave Physics
Any 2 of the following courses:	
SIO 210	Physical Oceanography
SIO 240	Marine Geology
SIO 260	Marine Chemistry
SIO 280	Biological Oceanography

Core Courses	
	SIO 214A
	SIO 202A
	SIO 202B
Total: 20 Units	

Twelve additional units selected from the following

ECE 222 A-B-C-D	Antennas and Their System Applications, Applied Electromagnetic Theory - Electromagnetics and Computational Methods for Electromagnetics, Advanced Antenna Design
ECE 250	Random Processes
ECE 251 A-B-C-D	Digital Signal Processing I and II, Filter Banks and Wavelets, Array Processing
ECE 253	Fundamentals of Digital Image Processing
ECE 254	Detection Theory
ECE 271 A-B	Statistical Learning I and II
ECE 273	Convex Optimization and Applications
ECE 275 A-B	Parameter Estimation I and II

Additional Courses	
Total: 12 Units	

Technical Electives (sixteen units)

- With the exception of research units, all courses counted towards the degree must be taken for a letter grade.
- Additional courses will generally consist of graduate ECE, SIO, CSE, MAE, MATH, or Physics courses and MUST be approved by curriculum advisor
- The following courses are recommended, not required: SIO 203 A-B/MAE 294 A-B, SIO 215 A-B and remaining courses from SIO 210, 240, 260, 280
- Up to two 4-unit courses of undergraduate ECE coursework (ECE 111+ only) and one 4-unit course of undergraduate CSE coursework (CSE 100+ only)
- M.S. Students (Plan II) are allowed no more than 4 units of 299 as technical electives. Ph.D. and M.S. Students (Plan I) are allowed no more than 8 units of 299 as technical electives.

Technical Electives	
Total: 16 Units	

Curriculum Advisor:	N/A
Phone no.:	N/A
E-mail:	N/A
Office no.:	N/A

Advisor's Signature **Date**

Student Name **PID**