

M.S. / Ph.D. Degree Planner: Intelligent Systems, Robotics and Control (EC80)

COURSE REQUIREMENTS - New Curriculum

Core Courses (sixteen units)

ECE 269	Linear Algebra & Applications
ECE 271 A	Statistical Learning I
ECE 272 A	Stochastic Processes in Dynamic Systems I
ECE 276 A	Sensing & Estimation in Robotics

Core Courses	
	ECE 269
	ECE 271 A
	ECE 272 A
	ECE 276 A
Total: 16 Units	

Twelve additional units selected from the following

ECE 250	Random Processes
ECE 252 A-B	Speech Compression; Speech Recognition
ECE 253	Fundamentals of Digital Image Processing
ECE 271 B	Statistical Learning II
ECE 272 B	Stochastic Processes in Dynamic Systems II
ECE 273	Convex Optimization & Applications
ECE 275 A-B	Statistical Parameter Estimation I & II
ECE 276 B-C	Planning/Learning in Robotics; Advances in Robot Manipulation
ECE 285	Special Topics in Signal, Image Processing, Robotics & Control Systems
CSE 250 A	Artificial Intelligence: Search and Reasoning
CSE 252 A	Computer Vision I
CSE 253	Neural Networks for Pattern Recognition
MAE 247	Cooperative Control of Multi-Agent Systems
MAE 280 A	Linear Systems Theory
MAE 281 A	Nonlinear Systems

Additional Courses	
Total: 12 Units	

Technical Electives (twenty units)

- With the exception of research units, all courses counted towards the degree must be taken for a letter grade.
- Any 4 unit, 200+ course from ECE, CSE, MAE, BENG, CENG, NANO, SE, MATS |MATH, PHYS or CogSci taken for a letter grade may be counted. Exceptions to this list |require departmental approval.
- 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: 20 Units	

Curriculum Advisor:	Ken Kreutz-Delgado
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Advisor's Signature

Date

Student Name

NEW: 2017-18 Academic Year

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