UC San Diego

JACOBS SCHOOL OF ENGINEERING
Electrical and Computer Engineering

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 271 C	Deep Learning
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 Special
ECE 285	Topics in Signal, Image Processing, Robotics & Control Systems Artificial
CSE 250 A	Intelligence: Search and Reasoning
CSE 252 A	Computer Vision I
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 <u>taken for a letter grade</u> 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).

Technical Electives	
Total: 20 Units	

- 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.

Curriculum Advisor:	**Nuno Vasconcelos (FALL 2018)**	**Behrouz Touri (Winter and Spring 2019)**
E-mail:	nvasconcelos@ucsd.edu	btouri@ucsd.edu
Office no.:	Jacobs Hall/EBU1 #5602	Jacobs Hall/EBU1 #6408

Advisor's Signature   **Date**

Student Name   NEW: 2018-19 Academic Year   **PID**