Robotics Engineering BS Degree Curriculum Chart 2012-2013



* Preferred

* May substitute with CMPS 5J AND CMPS 11

Satisfies the DC requirement

ROBOTICS ENGINEERING BS DEGREE CURRICULUM

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Approved List of Upper Division Electives

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	AMS 114 Intro to Dynamical Systems	CMPS 104A Compiler Design I	CMPS 164/L Game Engines and Game Engines Lab
	AMS 118 Control of Stochastic Processes	CMPS 104B Compiler Design II	CMPS 180 Database Systems
	AMS 147 Computational Methods and Applications	CMPS 109 Advanced Programming	CMPS 181 Database Systems II
	AMS 231 Nonlinear Control Theory	CMPS 111 Operating Systems	CMPS 183 Hypermedia and the Web
	CMPE 108 Data Compression	CMPS 112 Comparative Prog. Langs.	CMPS 190X Methods of Cryptography
	CMPE 110 Computer Architecture	CMPS 115 Software Methodology	EE 130/L Optoelectronics & Photonics
	CMPE 112 Computer and Game Console Architecture	CMPS 116 Software Design Project	EE 135/L Electro. Fields and Waves
	CMPE 113 Parallel Programming	CMPS 122 Computer Security	EE 136 Engr. Electromagnetics
	CMPE 125/L Logic Design with Verilog	CMPS 129 Data Storage Systems	EE 145/L Properties of Materials
	CMPE 131 Human-Computer Interaction	CMPS 130 Computational Models	EE 151 Communications Systems
	CMPE 150/L Intro. to Computer Networks	CMPS 132 Computability and Complexity	EE 152 Introduction to Wireless Communications
	CMPE 151 Network Administration	CMPS 140 Artificial Intelligence	EE 153 Signal Processing
	CMPE 156/L Network Programming	CMPS 142 Machine Learning and Data Mining	EE 171/L Analog Electronics
	CMPE 173/L High Speed Digital Design	CMPS 146 Game AI	EE 172 Advanced Analog Circuits
	CMPE 177 Applied graph Theory/Algor.	CMPS 160/L Computer Graphics	EE 175/L Energy Generation and Control
	CMPS 102 Analysis of Algorithms	CMPS 161/L Visualization & Computer Animation	TIM 206 Optimization Theory and Appl.
Or Any 5-Credit CS, CE, or EE Graduate Course: At most, one elective may be substituted by an upper-division individual or field study (CMPE, CMPS, EE 193 or			
19	98) with approval.		

Approved List of Ethics Courses: CMPE 80E Engineering Ethics; PHIL 22 Intro to Ethical Theory: Contemporary Moral Issues; PHIL 24 Intro to Contemporary Ethics; PHIL 28 Environmental Ethics; BME 80G/PHIL80G/CHEM80G Bioethics in the 21st Century: Science, Business, and Society.

I have discussed the BS/MS program with my advisor.

STUDENT'S NAME:_____ FACULTY ADVISOR:_____

STAFF ADVISOR:

Watch for CEFULs: CE Faculty-Undergraduate Lunches, regularly scheduled throughout the year, CE's free lunch program