Robotics Engineering B.S. Degree
2014-2015 Curriculum Chart

Math Courses

- MATH 19A Calculus I
- MATH 19B Calculus II
- MATH 23A Multivariable Calculus
- EE 103/L Signals & Systems

AMS 10* Engr. Math Methods I
AMS 20 Engr. Math Methods II

Other Options:
- MATH 21 Linear Algebra
- AMS 10* Engr. Math Methods I
- AMS 20 Engr. Math Methods II

Programming

- CMPE 12/L Computer Systems & Assembly Language
- CMPE 13/L Computer Systems & C Programming
- CMPS 12B/M Data Structures
- CMPS 101 Abstract Data Types & Algorithms

Science Courses

- PHYS 5A/L Mechanics
- CMPE 9 Statics, Dynamics, & Biomechanics
- PHYS 5C/N Electricity & Magnetism
- CMPE 115 Solid Mechanics

Robotics

- CMPE 118/L Intro to Mechatronics
- CMPE 129A, 129B, & 129C Capstone Project I, II, & III

Advanced Robotics Elective:
(Choose one)
- CMPE 215
- CMPE 216
- CMPE 240
- CMPE 242
- CMPE 244
- CMPE 264

Digital Electronics

- CMPE 100/L Logic Design
- EE 101/L Electronic Circuits
- CMPE 121/L Microprocessor System Design

Capstone

- CMPE 129A & CMPE 19B: Senior Thesis & Submission of approved thesis

Electives

- CMPE 185# Technical Writing

Breadth

- Ethics: (Choose one)
  - CMPE 80E
  - BME 80G (also PHIL 80G or CHEM 80G)
  - PHIL 22
  - PHIL 24
  - PHIL 28

  * Electives can be an upper division or graduate course from Approved List on the back
  # Satisfies the DC requirement

Exit Requirement

1. Portfolio
   http://ce.soe.ucsc.edu/portfolio
2. Exit Survey
   http://ua.soe.ucsc.edu/exit-survey
3. Exit Interview

* Strongly recommended
** Not required, but strongly recommended for frosh.

http://ua.soe.ucsc.edu • advising@soe.ucsc.edu • (831) 459-5840 • 08/12/2014
Robotics Engineering B.S. Degree  
2014-2015 Curriculum Chart

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Approved List of Upper Division Electives

AMS 114  CMPE 151/L  CMPS 109  CMPS 142  EE 136
AMS 118  CMPE 153/ EE 153  CMPS 111  CMPS 146  EE 145/L
AMS 147  CMPE 156/L  CMPS 112  CMPS 160/L  EE 151
CMPE 108  CMPE 161  CMPS 115  CMPS 161/L  EE 152
CMPE 110  CMPE 177  CMPS 121  CMPS 180  EE 171/L
CMPE 113  CMPE 193 ♦  CMPS 122  CMPS 181  EE 172
CMPE 122  CMPE 198 ♦  CMPS 128  CMPS 183  EE 173/L
CMPE 125/L  CMPS 102  CMPS 129  CMPS 190X  EE 175/L
CMPE 131  CMPS 104A  CMPS 130  EE 130/L  TIM 206
CMPE 150/L  CMPS 104B  CMPS 140  EE 135/L

NOTES:
♦ Requires prior approval.
- In addition to this list, any 5-unit CE, CS, or EE graduate course (200+) may also be used as an elective.
- At most, only one elective may be substituted by an upper-division individual or field study (CMPE, CMPS, EE 193 or 198) with approval.

Student Name:
Staff Advisor:
Faculty Advisor:
☐ I have discussed the BS/MS program with my advisor.