Math & Statistics

- MATH 3 or AMS 3 or math placement of 400 or higher
- MATH 19A
  - Calculus
  - [F / W / Sp]
- MATH 19B
  - Calculus
  - [F / W / Sp]
- AMS 3 or MATH 3 or math placement of 400 or higher
  - AMS 10
  - Math Methods for Engineers I
  - [F / Sp]
- AMS 10
  - Math Methods for Engineers I
  - [F / W / Sp]
- AMS 19B
  - AMS 10 or MATH 21
  - AMS 10 or MATH 21
- AMS 10
  - Math Methods for Engineers I
  - [F / W / Sp]
- AMS 19B
  - AMS 10 or MATH 21
  - AMS 10 or MATH 21
  - AMS 10
  - Math Methods for Engineers I
  - [F / W / Sp]
- AMS 10
  - Math Methods for Engineers I
  - [F / W / Sp]
- AMS 19B
  - AMS 10 or MATH 21
  - AMS 10 or MATH 21
  - AMS 10
  - Math Methods for Engineers I
  - [F / W / Sp]
- AMS 10
  - Math Methods for Engineers I
  - [F / W / Sp]

Physics

- MATH 19A
  - PHYS 5A/L
  - Intro to Physics I
  - [F / W]
- MATH 19A
  - PHYS 5A/L
  - AMS 10 or MATH 21
  - CMPE 9
  - Statics, Dynamics, & Biomechanics
  - [W]
- MATH 19B or 20B
  - PHYS 5A/L
  - PHYS 5C/N
  - Intro to Physics III
  - [Sp]
- MATH 19A, PHYS 5A/L
  - AMS 19B or 20B, PHYS 5A/L
  - MATH 19A or 20A
  - PHYS 5A/L
  - MATH 24
  - [F / W / Sp]

Computer Engineering

- CMPE 12/L
  - Computer Systems & Assembly Language
  - [F]
- CMPE 12/L
  - Computer Systems & C Programming
  - [W / Sp]
- CMPE 12/L
  - CMPE 100/L
  - Logic Design
  - [W / Sp]
- EE 101/L, CE 12/L & CE 100/L
  - CMPE 118/L
  - Mechatronics
  - [F]

Electronics

- MATH 19A
  - BME 51A
  - Applied Electronics I
  - [W]
- BME 51A
  - Applied Electronics II
  - [Sp]
- PHYS 5C/N or 6C/N, MATH 24, or previous or concurrent enrollment in AMS 20
  - EE 101/L
  - Intro to Electronic Circuits
  - [F / W]
- EE 101/L, AMS 20
  - EE 103/L
  - Signals & Systems
  - [F / Sp]
- CMPE 13/L, EE 103/L
  - CMPE 167
  - Sensor & Sensing Technologies
  - [W]
- CMPE 13/L of CMPS 12B/M, PHYS 5A or 6A
  - CMPE 161
  - Mobile Sensing
  - [Sp]

Humanities

- BME 80G
  - Bioethics in the 21st Century
  - [F]
- CMPS 12B or CMPE 12 or BME 160
  - CMPE 185
  - Technical Writing
  - [F / W / Sp]

Biology & Biotech

- CMPE 80A
  - Universal Access
  - [F / Sp]
- CMPE 8
  - Robot Automation
  - [F]
- CHEM 10
  - BIOC 20A
  - Cell & Molecular Biology
  - [F / W / Sp]
- CHEM 10
  - BIOL 20A
  - Development & Physiology
  - [F / W / Sp]
- CHEM 10
  - BIO 20B
  - Functional Anatomy
  - [Sp]

Design Project

- *Prereqs listed below
- CMPE/EE 129A
  - Capstone Project I
  - [F]
- CMPE/EE 129A
  - Capstone Project II
  - [W]
- CMPE/EE 129B
  - Capstone Project III
  - [Sp]

Senior Thesis

- BME 195
  - Senior Thesis
  - [F]
- BME 195
  - Senior Thesis
  - [F]
- BME 195
  - Senior Thesis
  - [F]
- BME 123T
  - Senior Thesis Presentation
  - [W]

Chemistry

- MATH 3 or math placement of 300 or higher
- CHEM 1A
  - General Chemistry
  - [F / W / Sp]
- CHEM 1B/M
  - General Chemistry
  - [F / W / Sp]

Notes:
- Denotes prerequisites and corequisites.
- Courses in which you receive a grade of C-, D+, D, or D- earn credit toward graduation, but cannot be used to satisfy a major requirement or a general education requirement, and cannot satisfy a prerequisite for another course.
- The School of Engineering has different major declaration deadlines than the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: http://ua.soe.ucsc.edu/declare
Ω CMPS 5P Intro to Prog. in python is recommended for students who have never programmed
Information about the prerequisites and scheduling of courses can change without notice—please check your plan each quarter and adjust for any changes.
http://ua.soe.ucsc.edu • advising@soe.ucsc.edu • (831) 459-5840 • 07/11/2016
## Bioengineering Electives Approval Form

**Elective 1:** __________________________________________

Explanation for choice of electives:

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