### Math & Statistics
- **MATH 3 or AMS 3 or math placement of 400 or higher**
  - MATH 19A Calculus  \( [F/W/Sp] \)
- **MATH 19A or 20A**
  - 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  \( [F/Sp] \)
- **MATH 19B, AMS 10 or MATH 21**
  - AMS 20 Math Methods for Engineers II  \( [W/Sp] \)
- **MATH 11B or MATH 19B or 20B or AMS 11B**
  - AMS 131 Intro to Probability Theory  \( [F/Sp] \)
- **AMS 131 or CMPE 107**
  - AMS 132 Statistical Inference  \( [W] \)

### Physics
- Coreq: MATH 19A or 20A
  - PHYS 5AL Intro to Physics I  \( [F/W] \)
- **MATH 19A, PHYS 5AL or 6AL, AMS 10 or MATH 21**
  - CMPE 9 Statics, Dynamics, & Biomechanics  \( [W] \)
- **MATH 19B or 20B, PHYS 5AL or PHYS 5CN**
  - PHYS 5CN Intro to Physics III  \( [Sp] \)

### Computer Engineering
- **CMPE 12/L**
  - Computer Systems & Assembly Language  \( [W/Sp] \)
  - [Strongly recommended to take one of these classes prior: CMPS 5J, 5P, 10 or equivalent]  \( [F/W/Sp] \)
- **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**
  - BME 51B Applied Electronics II  \( [Sp] \)
- **PHYS 5CN or 5C/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/L**
  - Sensing & Sensor Technologies  \( [W] \)
- **CMPE 13L or CMPS 128M, and PHYS 5A or 6A**
  - CMPE 161 Mobile Sensing And Interaction  \( [Sp] \)

### Biology & Biotech
- **CHEM 1A**
  - BIOL 20A Cell & Molecular Biology  \( [F/W/Sp] \)
- **BIOE 20B**
  - Development & Physiology  \( [F/W/Sp] \)
- **BIOE 20A, BIOE 20B**
  - METX 135/L Functional Anatomy  \( [Sp] \)

### Design Project
- *Prereqs listed below*
  - CMPE/EE 129A Capstone Project I  \( [F] \)
- **CMPE/EE 129B**
  - Capstone Project II  \( [W] \)
- **CMPE/EE 129C**
  - Capstone Project III  \( [Sp] \)

### Senior Thesis
- **BME 195 Senior Thesis**
- **BME 195 Senior Thesis**
- **BME 195 Senior Thesis**
- **BME 185 or CMPE 185 and concurrent enrollment in BME/CE/EE 193, 195 or 198**
  - BME 123T Senior Thesis Presentation  \( [W] \)

### 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](http://ua.soe.ucsc.edu/declare)

Ω CMPS SP 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@soc.ucsc.edu  •  (831) 459-5840  •  10/17/2016
## 2016-2017 Curriculum Chart

### Bioengineering Electives Approval Form

**Elective 1:** ___________________________________

Explanation for choice of electives:

_____________________________________________

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**Student Name:**

**Staff Advisor:**

**Faculty Advisor:**