

Bioengineering B.S. Degree: Bioelectronics 2018-2019 Curriculum Chart

Math & Statistics

MATH 19A
Calculus

MATH 19B
Calculus

AMS 10
Math Methods for Engineers I

AMS 20
Math Methods for Engineers II

AMS 131
Intro to Probability Theory

AMS 132
Statistical Inference

Physics

PHYS 5A/L
Intro to Physics I/Lab

PHYS 5B/M
Intro to Physics II/Lab

PHYS 5C/N
Intro to Physics III/Lab

Chemistry

CHEM 1A
General Chemistry

CHEM 1B/M
General Chemistry/Lab

CHEM 1C/N
General Chemistry/Lab

Computer Engineering

CMPE 12/L^Ω
Computer Systems & Assembly Language/Lab

Strongly recommended to take one of these classes prior: CMPS 5J, CMPS 5P, CMPS 10 or equivalent

CMPE 13/L
Computer Systems & C Programming/Lab

CMPE 100/L
Logic Design/Lab

Biology & Biotechnology

BIOL 20A
Cell & Molecular Biology

BIOE 20B
Development & Physiology

BME 140
Bioinstrumentation
OR
EE 104
Bioelectronics & Bioinstrumentations

Humanities

BME 80G
Bioethics in the 21st Century

CMPE 185
Technical Writing

Electronics

BME 51A
Applied Electronics I

BME 51B
Applied Electronics II

EE 101/L
Intro to Electronic Circuits/Lab

EE 103/L
Signals & Systems/Lab

ELECTRONICS ELECTIVE*

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*Please refer to the Undergraduate Advising website for the list of approved electronics electives

Prior to graduation (beng.soe.ucsc.edu) you must:

1. Submit a Portfolio
2. Complete an Exit Survey
3. Attend an Exit Interview

OR

<p>❖ Design Project</p> <p>CMPE 129A, 129B, & 129C Capstone Project I, II, & III</p> <p>EE 129A, 129B, & 129C Capstone Project I, II, & III</p> <p>CMPE 123A & 123B Capstone Project I & II</p>	<p>❖ Senior Thesis</p> <p>BME 195 Senior Thesis</p> <p>BME 195 (2 credits) Senior Thesis</p> <p>BME 123T Senior Thesis Presentation</p> <p>BME 195 Senior Thesis</p>
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❖ The capstone options listed are most appropriate for students following the Bioelectronics concentration. Please refer to the General Catalog program statement for full approved design projects and thesis options: <https://registrar.ucsc.edu/catalog/programs-courses/program-statements/beng.html>.

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Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Notes:

- 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: <https://undergrad.soe.ucsc.edu/declare-your-major>
- Ω CMPS 5P Intro. to Prog. in python is recommended for students who have never programmed
- **Major qualification requirements for this major can be found at: <https://undergrad.soe.ucsc.edu/major-qualification>**

Student Name:

Staff Advisor:

Faculty Advisor: