## Bioengineering B.S. Degree: Biomolecular  
### 2017-2018 Curriculum Chart

### Math & Statistics
- **MATH 19A**  
  Calculus
- **MATH 19B**  
  Calculus
- **AMS 131**  
  Intro to Probability Theory
- **AMS 132**  
  Statistical Inference

### Chemistry
- **CHEM 1A**  
  General Chemistry
- **CHEM 1B/M**  
  General Chemistry/Lab
- **CHEM 1C/N**  
  General Chemistry/Lab
- **CHEM 8A/L**  
  Organic Chemistry/Lab

### Biochemistry
- **CHEM 8B/M**  
  Organic Chemistry/Lab
- **BIOC 100A**  
  Biochemistry & Molecular Biology
- **BIOC 100B**  
  Biochemistry & Molecular Biology
- **BIOC 100C**  
  Biochemistry and Molecular Biology

### Biology
- **BME 80G**  
  Bioethics in the 21st Century
- **CMPE 185**  
  Technical Writing
- **BME 185**  
  Technical Writing Bioengineers
- **BME 188A**  
  Synthetic Biology – Mentored Research A
- **BME 188B**  
  Synthetic Biology – Mentored Research B

### Design Project
- **BME 129A**  
  Bioengineering Project I
- **BME 129B**  
  Bioengineering Project II
- **BME 129C**  
  Bioengineering Project III
- **BME 123T**  
  Senior Thesis Presentation

### Senior Thesis
- **BME 195**  
  Senior Thesis

### Elective
- **BME 128**  
  Protein Engineering
- **BME 140**  
  Bioinstrumentation
- **BME 177**  
  Engineering Stem Cells

### Programming
- **CMPS 12A/L**  
  Introduction to Programming/Lab
- **BME 110**  
  Bioinformatics Tools
- **BME 160/L**  
  Research Programming/Lab
- **BME 51A**  
  Applied Electronics I
- **BME 51B**  
  Applied Electronics II

### Physics & Electronics
- **PHYS 5A/L**  
  Intro to Physics I/Lab
- **PHYS 5C/N**  
  Intro to Physics III/Lab

### Electives:
- **Humanities**
- **CMPE 185**
- **BME 185**
- **BIOE 105**

### Notes:
- Denotes pre-requisites and co-requisites.
- 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)
- Pre-req for BME 188A is BME 180 and perm. of instructor; pre-req for BME 188B is BME 188A and perm. of instructor
- Major qualification requirements for this major can be found at: [https://ua.soe.ucsc.edu/major-qualification](https://ua.soe.ucsc.edu/major-qualification)

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## Bioengineering B.S. Degree: Biomolecular
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**Student Name:**

**Staff Advisor:**

**Faculty Advisor:**

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