Bioinformatics B.S. Degree
2017-2018 Curriculum Chart

**Math**
- **CMPE 16**
  Applied Discrete Math
- **MATH 19A**
  Calculus
- **MATH 20A**
  Honors Calc
- **MATH 19B**
  Calculus
- **MATH 20B**
  Honors Calc
- **MATH 23A**
  Multivariable Calculus
- **AMS 131**
  Probability Theory
- **AMS 132**
  Statistical Inference

**Engineering**
- **CMPS 12A/L**
  Intro to Programming/Lab
- **CMPS 12B/M**
  Data Structures/Lab
- **CMPS 101**
  Abstract Data Types
- **CMPS 109**
  Advanced Programming
- **BME 160/L**
  Research Programming/Lab
- **CMPS 180**
  Database Systems
- **CMPS 182**
  Intro to Database Management Systems
- **CMPE 185**
  Technical Writing
  OR
  **BME 185**
  Technical Writing for Bioengineers

*Students may choose to take CMPS 5J and 11; or CMPS 12A/L and 13/L in place of CMPS 12A/L.

**Science**
- **CHEM 1A**
  General Chemistry
- **CHEM 1B/M**
  General Chemistry/Lab
- **CHEM 1C/N**
  General Chemistry/Lab
- **CHEM 8A**
  Organic Chemistry
- **CHEM 8B**
  Organic Chemistry
- **BIOE 20B**
  Development & Physiology
- **BIOC 100A**
  Biochemistry

**Bioinformatics**
- **BME 80G**
  Bioethics
- **BME 110**
  Computational Biology Tools
- **BME 130**
  Genomes
- **BME 205**
  Bioinformatics Models and Algorithms

**Notes:**
- All students admitted to a School of Engineering major, or seeking admission to a major, must take all courses required for that major for a letter grade.
- 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)
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**Student Name:**

**Staff Advisor:**

**Faculty Advisor:**