

Bioinformatics B.S. Degree 2017-2018 Curriculum Chart

Math

CMPE 16
Applied Discrete Math

MATH 19A
Calculus

OR

MATH 20A
Honors Calc

MATH 19B
Calculus

OR

MATH 20B
Honors Calc.

MATH 23A
Multivariable Calculus

AMS 131
Probability Theory

AMS 132
Statistical Inference

Bioinformatics

BME 80G
Bioethics

BME 110
Computational Biology Tools

BME 130
Genomes

BME 205
Bioinformatics Models and Algorithms

ONE of the following:

BME 211
Computational Systems Biology

BME 230/L
Computational Genomics/Lab

BME 195
Senior Thesis

Engineering

CMPS 12A/L*
Intro to Programming/Lab

CMPS 12B/M
Data Structures/Lab

CMPS 101
Abstract Data Types

CMPS 109
Advanced Programming

OR

BME 160/L
Research
Programming/Lab

CMPS 180
Database
Systems

OR

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
CMPE 12/L and 13/L in place of CMPS 12A/L.

**Satisfies the DC requirement

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

BIOL 20A
Cell & Molecular Biology

BIOE 20B
Development & Physiology

BIOL 105
Genetics

BIOC 100A
Biochemistry

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>

**Bioinformatics B.S. Degree
2017-2018 Curriculum Chart**

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Student Name:

Staff Advisor:

Faculty Advisor: