### Bioinformatics B.S. Degree
#### 2016-2017 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
- **CMPS 12B/M**
  - Data Structures
- **CMPS 101**
  - Abstract Data Types
- **CMPS 109**
  - Advanced Programming
- **CMPS 180**
  - Database Systems
- **CMPS 181**
  - Intro to Database
- **CMPS 185**
  - Technical Writing
  - **or**
  - Research Programming
- **CMPS 182**
  - Technical Writing for Bioengineers

**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)

**Admission Requirements to Bioinformatics:** Students must complete 50 units from the following list by the end of the fifth quarter (60 by the 7th, 70 by the 8th, or 80 by the 9th quarter) and have a GPA of 2.8 or better in all attempts:
- **BIOI 20A**, **BIOE 20B**, **BME 80G**, **CHEM 1A**, **CHEM 1B/M**, **CHEM 1C/N**, **CMPE 16**, **CMPS 12A/L** (or CMPS 5J and 11 or CMPE 12/L and 13/L), **CMPS 12B/M**, **MATH 19A**, **MATH 19B**, **MATH 23A**, **AMS 131**, **CHEM 8A**, **CHEM 8B**, and **CMPS 101**

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