School of Engineering

Bioinformatics BS Curriculum
2001-2002

Math

- MATH 19A
  Calculus
- MATH 19B
  Calculus
- MATH 23A
  MV Calculus
- MATH 23B
  MV Calculus
- MATH 21
  Linear Algebra
- MATH 24
  Diff Eqs
- CMPE 107
  Stochastic
- CMPE 108
  Prob. Theory
- CMPE 16
  Discrete Math

35 - 40 Credits

Engineering

- CMPS 12A
  Programming
- CMPS 12B
  Data Structures
- CMPS 101
  Abstract Data Types
- CMPS 180
  Database Systems
- CMPE 185 or BIOL 20L(W)
  Technical Writing
  Exper. Bio. Lab
- CMPE 177
  Graph/Algorithms
  or
- CMPS 104A
  Compiler Design
  or
- CMPS 109
  Adv. Programming

30 Credits

Science

- CHEM 1B/M or CHEM 4A/L
  Gen. Chemistry
  Quant. Analysis
- CHEM 1C/N or CHEM 4B/M
  Gen. Chemistry
  Quant. Analysis
- CHEM 108A/L
  Org. Chemistry
  or
- CHEM 112A/L
  Org. Chem
- CHEM 108B/M
  Org. Chemistry
- CHEM 112B/M
  Org. Chem
- CHEM 112C/N
  Org. Chem
- BIOL 20A or BIOL 21A
  Cell & Molecular
- BIOC 100A
  Biochemistry

38-45 Credits

Electives

Two of the following:

- BIOC: 100B, 100C, 110
- CMPE: 108, 177
- CMPS: 104A, 104B, 109, 130, 150,
- ENGR: 146, 147, 181
- MATH: 143/L, 148

Choices must form a coherent program and be approved by undergraduate director for bioinformatics.

10 Credits

Bioinf

- CHEM 80G
  Bioethics
- BME 100/L
  Intro to Bioinformatics
- CMPS 243 or BME 195
  Bioinformatics
  Senior Thesis

16 Credits

For more information, see http://www.soe.ucsc.edu/research/compbio/BS/

Revised 10.22.01

Advisory only. For specific requirements see Engineering Advisor. Course number, content, and prerequisites may have changed.