Bioinformatics

http://www.pacificu.edu/as/bioinformatics

The major in Bioinformatics is designed for students interested in molecular biology and genetics as well as information technologies and computer science. Students often begin with a strong interest in biology or with a stronger interest in computer science. Depending upon initial interest, two possible scenarios for the first two years are shown:

Scenario I

FIRST-YEAR SCHEDULE

Fall
- Math 125: Precalculus or 226: Calculus I 4
- Chem 220: General Chemistry I 4
- Hum 100: First-Year Seminar 4
- Core elective 4
Total 16

Winter
- Elective 2

Spring
- Math 226: Calculus I or 207: Statistics 4
- Chem 230: General Chemistry II 4
- Bio 202: General Biology I 4
- Core elective 4
Total 16

SECOND-YEAR SCHEDULE

Fall
- Biol 204: General Biology II 4
- CS 150: Intro to Computer Science I 4
- Chem 300: Fund. of Organic Chem. 4
- Electives 4
Total 16

Winter III
- Elective 2

Spring
- CS 250: Intro to Computer Science II 4
- Electives 12
Total 16
Scenario II

FIRST-YEAR SCHEDULE

Fall
Math 125: Precalculus or 226: Calculus I 4
CS 150: Intro to Computer Science I 4
Hum 100: First-Year Seminar 4
1 core elective 4
Total 16

Winter
Elective 2

Spring
Math 226: Calculus I or 207: Statistics 4
CS 250: Intro to Computer Science II 4
Core electives 8
Total 16

SECOND-YEAR SCHEDULE

Fall
Chem 220: General Chemistry I 4
CS 300: Data Structures 4
Math 240: Discrete Math 4
Elective 4
Total 16

Winter
Elective 2

Spring
Chem 230: General Chemistry II 4
Biol 202: General Biology I 4
CS 445: Databases or 380: Algorithm Design and Analysis 4
Elective 4
Total 16

Last Rev 5/10