

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	<u>4</u>
Total	16

Winter III Elective 2-3

Spring

Math 226: Calculus I or 207: Statistics	3-4
Chem 230: General Chemistry II	4
Bio 202: General Biology I	4
Core elective	<u>4</u>
Total	15-16

SECOND-YEAR SCHEDULE

Fall

Biol 204: General Biology II	4
CS 150: Intro to Computer Science I	4
Electives	<u>8</u>
Total	16

Winter III Elective 2

Spring

CS 250: Intro to Computer Science II3	
Chem 240/241: Survey of Organic Chem.	4
BINF 290: Intro to Bioinformatics	1
Electives	<u>8</u>
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	<u>4</u>

Total **16**

Winter III Elective 2-3

Spring

Math 226: Calculus I or 207: Statistics	3-4
CS 250: Intro to Computer Science II3	
Core electives	<u>8</u>

Total **14-15**

SECOND-YEAR SCHEDULE

Fall

Chem 220: General Chemistry I	4
CS 300: Data Structures	3
Math 240: Discrete Math	3
Elective	<u>4</u>

Total **14**

Winter III Elective 2

Spring

Chem 230: General Chemistry II	4
Biol 202: General Biology I	4
CS 445: Databases or 380: Algorithm Design and Analysis	3
BINF 290: Intro to Bioinformatics	1
Elective	<u>4</u>

Total **16**

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