

Computational Biology BS Major, sample 4-year plan[#]

Fall Term	Spring Term
First Year	
BIOSC 0150 <i>Foundations of Biology 1</i> (3 cr) CHEM 0110 <i>General Chemistry 1 and Lab</i> (4 cr) Gen Eds/ Electives	BIOSC 0160 <i>Foundations of Biology 2</i> (3 cr) CHEM 0120 <i>General Chemistry 2 and Lab</i> (4 cr) CS 0011 <i>Programming for Scientists (Python)</i> (4 cr) Gen Eds/ Electives
<i>7 credits science/math</i>	<i>11 credits science/math</i>
Sophomore	
BIOSC 1540 <i>Computational Biology</i> ^{*†} (3 cr) CMPINF 0401 <i>Intermediate Programming</i> (4 cr) Gen Eds/ Electives	BIOSC 0350 <i>Genetics</i> (3 cr) CS 0441 <i>Discrete Structures</i> [‡] (3 cr) MATH 0220 <i>Calculus</i> (4 cr) Gen Eds/ Electives
<i>7 credits science/math</i>	<i>10 credits science/math</i>
Junior	
CHEM 0310 <i>Organic Chemistry 1</i> (3 cr). CS 0445 <i>Algorithms and Data Structures 1</i> (3 cr) Gen Eds/ Electives	BIOSC 1542 <i>Computational Genomics</i> [*] - or - BIOSC 1544 <i>Simulation and Modeling</i> (3 cr) [*] CS 1501 <i>Algorithms and Data Structures 2</i> (3 cr) Gen Eds/ Electives
<i>6 credits science/math</i>	<i>6 credits science/math</i>
Senior	
BIOSC 1000 <i>Biochemistry</i> (3 cr) BIOSC 1630 <i>Comp Bio Seminar with Writing</i> (2 cr) [*] STAT 1000 <i>Applied Statistical Methods</i> (4 cr) Gen Eds/ Electives	BIOSC 1640 <i>Computational Biology Research</i> [*] - or - CS 1640 <i>Bioinformatics Software Design</i> (3 cr) CS 1656 <i>Introduction to Data Science</i> (3 cr) <i>Comp Bio elective</i> (1-4 cr) Gen Eds/ Electives
<i>9 credits science/math</i>	<i>7-10 credits science/math</i>

[#] Only requisite & corequisite requirements are shown. General Education Requirements vary by school.

^{*} Course only offered in term listed. All other courses are offered in both Fall and Spring terms.

[†] Because of prerequisites for courses, you must complete BIOSC 1540 by the fall of your junior year.

[‡]MATH 0220 is a co-requisite for CS 0441