Computational Biochemistry B.Sc. Honours

Year 1

CHEM 1001, CHEM 1002
General Chemistry

BIOL 1103, BIOL 1104
Foundations of Biology

MATH 1007, MATH 1107
Elementary Calculus I and Linear Algebra

PHYS 1007, PHYS 1008
Elementary University Physics

COMP 1005, COMP 1006
Introduction fo Computer Science

Year 2

BIOC 2200
Cellular Biochemistry

BIOC 2300
Physical Biochemistry

BIOL 2104
Introductory Genetics

CHEM 2203, CHEM 2204
Organic Chemistry

CHEM 2303
Analytical Chemistry

CHEM 2501
Bioinorganic Chemistry

MATH 2007
Elementary Calculus

STAT 2507
Intro to Stat Modeling

Year 3

BIOC 3101 and 3102
General Biochemistry

BIOC 3103 and 3104
Practical Biochemistry

BIOC 3202
Biophysical Techniques and Applications

BIOC 3008
Bioinformatics

BIOL 3104
Molecular Genetics

COMP 2401
Introduction to Systems Programming

COMP 2402
Abstract Data Types and Algorithms

Plus options in COMP

Year 4/5

BIOC 4008
Computational Systems Biology

Options in BIOC, MATH, STAT:

BIOC 2400
Independent Research

BIOC 4202
Mutagenesis and DNA repair

STAT 2509
Introduction to Statistical Modeling II

MATH 3800
Math Modeling and Comput Needs

Examples only.

Honours project

BIOC 4907
Honours Essay and Research Proposal

BIOC 4908
Research Project

0.5 credit from Free Electives

2.0 credits in Approved Courses Outside the Faculties of Science and Engineering (may include NSCI 1000)

Note: This is a snapshot of the Undergrad Calendar. Information can change. Always consult your audit and seek advising. Some courses are available in the summer. Please check Carleton Central for availability.