
















Computational Biochemistry B.Sc. Honours Course Map

| First year | Second year | Third year | Fourth year |
|--|--|---|--|
|  CHEM 1001, CHEM 1002 General Chemistry |  BIOC 2200 Cellular Biochemistry |  BIOC 3101 and 3102 General Biochemistry BIOC 3103 and 3104 Practical Biochemistry BIOC 3202 Biophysical Techniques and Applications BIOC 3008 Introduction to Bioinformatics |  BIOC 4008 Computational Systems Biology |
|  BIOL 1103, BIOL 1104 Foundations of Biology |  BIOC 2300 Physical Biochemistry or CHEM 2103 Physical Chemistry I |  BIOL 3104 Molecular Genetics |  1.5 credits from courses such as: BIOC 2400, BIOC 3400 Independent Research I & II BIOC 4202 Mutagenesis and DNA Repair MATH 2107 Linear Algebra II STAT 2509 Introduction to Statistical Modeling II *These are a few examples |
|  MATH 1007, MATH 1107 Elementary Calculus I and Linear Algebra I |  BIOL 2104 Introductory Genetics | | |
|  PHYS 1007, PHYS 1008 Elementary University Physics |  CHEM 2203, CHEM 2204 Organic Chemistry I & II CHEM 2303 Analytical Chemistry II CHEM 2501 Introduction to Inorganic and Bioinorganic Chemistry | | |
|  COMP 1005, COMP 1006 Introduction to Computer Science I & II |  STAT 2507 Introduction to Statistical Modeling I MATH 2007 Elementary Calculus II COMP 2401 Introduction to Systems Programming | | |
| | | |  Honours Project (1.0 credit): BIOC 4906 Interdisciplinary Research Project BIOC 4908 Research Project |
| | | | 1.0 credit from list of approved courses in COMP 2000 level or above |
| | | | 0.5 credit from Free Electives |
| | | | 2.0 credits in approved courses outside the Faculties of Science and Engineering (may include NSCI 1000) |

