Honours Arts & Science and Chemical Biology

ADMISSION

Enrolment in this program is limited.
Completion of Arts & Science I with a grade point average of at least 6.0, an average of at least 6.0 in CHEM 1A03, 1AA3, and a grade of at least C+ in BIOLOGY 1A03.

NOTES:
1. See additional notes in the Undergraduate Calendar, Faculty of Science, Department of Chemistry and Chemical Biology.
2. Nine units from the following list are required: ARTSSCI 3A06, 3B03, 3BB3, 3RL3/3S03. Students who choose to take ARTSSCI 3RL3 or 3S03 may only use one of those courses towards satisfying 3 units of the requirement. Students are encouraged, however, to take additional units from this list as an elective.
3. Six units of Upper-Level Inquiry beyond Level I are required. Additional units of Upper-Level Inquiry may be included as an elective with the permission of the Director. Upper-Level Inquiry courses are: ARTSSCI 3CL3, 3CU3, 3EH3, 3GJ3, 3TR3, 4CB3, 4CD3, 4CF3, 4CI3, 4CP3, 4CT3, 4EP3, 4HS3, 4ST3, 4VC3.
4. BIOCHEM 3G03 must be completed in Level II. The combination of both BIOCHEM 2B03 and 2BB3 may substitute for BIOCHEM 3G03 and, when completed, will reduce the elective requirement by three units.

COURSE LIST 1
CHEMBIO 2P03, 3OA3, 3OB3, 3P03, 4A03, 4OA3, 4OB3; CHEM 3AA3, 3OA3, 4OB3, 4WO3

REQUIREMENTS
120 units total (Level I-IV), of which 48 units may be Level I

- 24 units ARTSSCI 1A06, 1B03, 1BB3, 1C03, 1CC3, 1D06
- 6 units CHEM 1A03, 1AA3
- 3 units BIOLOGY 1A03
- 18 units ARTSSCI 2A06, 2D06, 2E03, 2R03
- 9 units from ARTSSCI 3A06, 3B03, 3BB3, one of 3RL3/3S03 (see Note 2)
- 6 units Upper-Level Inquiry (see Note 3)
- 6 units CHEMBIO 2OG3, 2OD3
- 9 units CHEMBIO 2A03, 2L03, 2Q03
- 3-6 units BIOCHEM 3G03 or BIOCHEM 2B03 and 2BB3 (see Note 4)
- 3 units CHEMBIO 3L03
- 12 units CHEMBIO 4G12
- 12 units from Course List 1
- 6-9 units Electives (see Note 4)

See page two for course titles
<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course List</th>
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<tbody>
<tr>
<td>CHEMBIO</td>
<td>2P03- Physical Chemistry Tools for Chemical Biology</td>
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<td>3OA3- Organic Mechanistic Tools for Chemical Biology</td>
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<td>3OB3- Structural Elucidation of Natural Products and Small Molecules</td>
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<td>3P03- Biomolecular Interactions and Kinetics</td>
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<td>4A03- Bio-Analytical Chemistry and Assay Development</td>
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<td>4OA3- Natural Products</td>
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<td>4OB3- Medicinal Chemistry: Drug Design and Development</td>
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<td>CHEM</td>
<td>3AA3- Instrumental Analysis</td>
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<td>3OA3- Organic Synthesis</td>
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<td>4OB3- Polymers and Organic Materials</td>
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<td>4WO3- Natural and Synthetic Materials</td>
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**Other Listed Requirements**

- **BIOLOGY 1A03** – Cellular and Molecular Biology
- **BIOCHEM 3G03** - Proteins and Nucleic Acids
- 2B03- Nucleic Acid Structure and Function
- 2BB3- Protein Structure and Enzyme Function
- **CHEM 1A03**- Introductory Chemistry I
- 1AA3- Introductory Chemistry II
- **CHEMBIO 2OG3**- Organic Chemistry I
- 2OD3- Organic Chemistry II
- 2A03- Introduction to Bio-Analytical Chemistry
- 2L03- Pharmaceutical Chemistry Laboratory I: Biomolecular Interactions
- 2Q03- Inquiry for Chemical Biology
- 3L03- Chemical Biology Laboratory II
- 4G12- Senior Thesis in Chemical Biology