

Honours Arts & Science and Biology

ADMISSION

Completion of Arts & Science I with a grade point average of at least 6.0 and an average of at least 6.0 in BIOLOGY 1A03, 1M03.

NOTES:

1. Completion of CHEM 1A03, 1AA3 is required by the end of Level II.
2. Students are advised to note carefully the prerequisites for all Level III and IV courses listed in the program.
3. Students must complete 9 units from BIOLOGY 2A03, 2B03, 2D03, 2EE3, 2F03. Additional units from this list may be used towards the *Course List 1* requirements.
4. 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.
5. Nine 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, 4DS3, 4EP3, 4HS3, 4ST3, 4VC3.
6. Students who select BIOLOGY 4C12 will take three additional units from *Course List 1*; students who select ARTSSCI 4A06, 4C06, or BIOLOGY 4F06 will take nine additional units from *Course List 1*.

COURSE LIST 1

BIOLOGY 2A03, 2B03, 2D03, 2EE3, 2F03, 2L03, all Biology and Molecular Biology Level III and IV courses; all BIOCHEM courses for which the prerequisites are met; CHEMBIO 2A03, 2P03, 3OA3, 3BM3, 4OA3, 4OB3; EARTHSC 2E03, 4FF3; ENVIRSC 2B03, 2C03, 2W03, 3B03, 4BB3, 4C03, 4EA3; GEOG 2E13, 2GI3, 3GI3, 3MB3, 4GA3; HTHSCI 3I03, 3K03, 4I13; LIFESCI 2D03, 3AA3, 3K03; MEDPHYS 4B03, 4U03; BIOPHYS 3D03, 3G03; PSYCH 2E03, 2GG3, 2NF3, 3A03, 3F03, 3FA3, 3SN3, 3T03, 4R03, 4Y03

REQUIREMENTS

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

- 24 units ARTSSCI 1A03, 1AA3, 1B03, 1BB3, 1C06, 1D06
- 6 units BIOLOGY 1A03, 1M03
- 6 units CHEM 1A03, 1AA3 (see *Note 1*)
- 18 units ARTSSCI 2A06, 2D06, 2E03, 2R03
 - 9 units from ARTSSCI 3A06, 3B03, 3BB3, one of 3RL3/3S03 (see *Note 4*)
 - 9 units Upper-Level Inquiry (see *Note 5*)
- 6-12 units: one of ARTSSCI 4A06, 4C06, BIOLOGY 4F06 or BIOLOGY 4C12 (see *Note 6*)
 - 3 units BIOLOGY 2C03
 - 9 units from BIOLOGY 2A03, 2B03, 2D03, 2EE3, 2F03 (see *Note 3*)
 - 3 units from CHEM 2E03, 2OA3, 2OC3, 2OG3
- 3-9 units from *Course List 1* (see *Note 6*)
- 12 units Levels III, IV from *Course List 1*
- 6 units Electives

See page two for course titles

Prefix	Course List 1
BIOLOGY	*All Level 3 + Level 4 Biology/Molecular Biology Courses* 2D03 - Plant Biodiversity and Biotechnology 2EE3 - Introduction to Microbiology and Biotechnology 2A03 - Integrative Physiology of Animals 2F03 - Fundamental and Applied Ecology 2B03 - Cell Biology 2L03 - Experimental Design in Biology
CHEMBIO	2A03 – Introduction to Bio-Analytical Chemistry 3BM3 – Implanted Biomaterials 2P03 – Physical Chemistry Tools for Chemical Biology 4OA3 – Natural Products 3OA3 – Organic Mechanistic Tools for Chemical Biology 4OB3 – Medicinal Chemistry: Drug Design and Development
EARTHSC	2E03 – Earth History 4FF3 – Topics of Field Research
ENVIRSC	2B03 – Soils and the Environment 4C03 - Advanced Physical Climatology 2C03 - Surface Climate Processes and Environmental Interactions 4EA3 - Environmental Assessment 2W03 - Physical Hydrology 4BB3 – Field Techniques in Hydrology 3B03 – Ecosystems and Global Change
GEOG	2E13 – Environmental Issues 3MB3 - Data Analysis 2G13 – Geographic Information Systems 4GA3 - Applied Spatial Statistics 3G13 - Advanced Raster GIS
HTHSCI	3K03 - Introductory Virology 3I03 - Introductory Immunology 4I13 - Advanced Concepts in Immunology
LIFESCI	2D03 - Behavioural Processes 3AA3 - Human Pathophysiology 3K03 - Neural Control of Human Movement
BIOPHYS	3D03 - Origin of Life 3G03 - Modelling Life
MEDPHYS	4B03 - Radioactivity and Radiation Interactions 4U03 - Radiation Biology
PSYCH	2E03 - Sensory Processes 3FA3 - The Neurobiology of Learning and Memory 2GG3 - Learning, Measuring, and Shaping Behaviour 3T03 - Behavioural Ecology 2NF3 - Basic & Clinical Neuroscience 4R03 - Special Topics in Animal Behaviour 3A03 - Audition 4Y03 - Hormones, Neurochemistry and Behaviour 3F03 - Evolution and Human Behaviour

Other Listed Requirements
BIOLOGY 1A03 – Cellular and Molecular Biology 1M03 - Biodiversity, Evolution and Humanity 2C03 - Genetics 4F06 - A/B S - Senior Project 4C12 - A/B S - Senior Thesis CHEM 1A03 - Introductory Chemistry I 1AA3 - Introductory Chemistry II 2E03 -Introductory Organic Chemistry 2OA3 - Organic Chemistry I 2OG3 - Structure and Reactivity of Organic Molecules