



Honours Biology & Psychology

<http://www.science.mcmaster.ca/psychology>

<http://www.science.mcmaster.ca/biology>



About the Program

The 4-year Honours degree in Biology and Psychology is designed for the student who is interested in biology from a behavioural and neurobiological perspective. This program gives you the freedom to choose the best from two departments, so that you may explore the genetics, cell biology, and neurophysiology of behaviour while also learning the latest in cognition, learning, development, and psychobiology. This flexible program culminates in a fourth year research thesis, which may be taken under the supervision of Psychology or Biology faculty, and hence, affords an opportunity for first-hand experience in anything from clinical studies of child development to computational neuroscience to molecular biology. This Bio-Psych program is compatible with pre-medical preparation. Many of our graduates also choose to pursue careers in university or industrial research (such as pharmaceuticals), genetic counselling, ethology, education, and an array of professions open to professional psychologists and biologists. Enrolment in this program is limited. Selection is based on academic achievement.

Details of the first two years of the program...

Calendar 2006-2007

Honours Biology & Psychology (Limited Enrolment) Total 120 units

Year 1
(30 units)

Math 1A03 Calculus I
3 units from **Math 1AA3**, Calculus II; **Math 1B03**, Linear Algebra I; **Math 1D03**, Algebra & Geometry; **Stats 1CC3**, Intro Computer-Aided Statistics
Bio 1A03 Cellular & Molecular Biology
Bio 1AA3 Biodiversity, Evolution & Ecology
Chem 1A03 Introductory Chemistry I
Chem 1AA3 Introductory Chemistry II
Phys 1B03 Mechanics & Waves
Psych 1A03 Introduction to Experimental Psychology
6 units Elective (Lvl.1) (Psych 1AA3 must be completed by end of Level II)
2 courses Science 1A00 & 1B00

Requirements to be admitted into the Bio-Psych program: Completion of Science Level I with: C.A. 6.0 (C+), Average 6.0 in Bio 1A03, 1AA3; 6.0 in Psych 1A03; Average 6.0 in Chem 1A03, 1AA3

Year 2
(30 units)

Bio 2B03 Cell Biology
Bio 2C03 Genetics
Chem 2OA3 Organic Chemistry I
Chem 2OB3 Organic Chemistry II
Biochem 2EE3 Metabolism & Physiological Chemistry
Psych 2RA3 Research Design & Statistics for Behavioural Science I
Psych 2RB3 Research Design & Statistics for Behavioural Science II
6 units from **Psych 2D03** Neuropsychology, **Psych 2E03** Sensory Processes, **Psych 2F03** Fund. Of Neuroscience, **Psych 2H03** Human Learning & Cognition, **Psych 2TT3** Animal Behaviour
3 units Electives (must complete Psy 1AA3 by end of Lvl II)

Counsellors:	Dr. D. Gillespie, Psychology	gilles@mcmaster.ca	PC310
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