

Honours Biology and Psychology {2050460}

Faculty Program Advisors:

Psychology, Neuroscience & Behaviour

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Biology

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ADMISSION

Enrolment in this program is limited and possession of the published minimum requirements does not guarantee admission. Selection is based on academic achievement but requires, as a minimum, completion of any Level I program with a Cumulative Average of at least 6.0 including:

- 6 units BIOLOGY 1A03, 1M03 (or 1AA3) with an average of at least 7.0
- 6 units PSYCH 1X03 (or 1AA3) and 1XX3 (or 1A03) with a grade of at least B- in each
- 6 units CHEM 1A03, 1AA3 with an average of at least 7.0
- 3 units from MATH 1A03, 1LS3
- 3 units from PHYSICS 1B03, 1L03 (See *Admission Note 1*).

ADMISSION NOTES

1. Students who have not completed PHYSICS 1B03 will be considered for admission, however, completion of the course is required by the end of Level II.

PROGRAM NOTES

1. Counselling for this program is shared by the Departments of Biology and Psychology, Neuroscience and Behaviour. Information may be obtained through the Undergraduate Advisors in the Life Sciences Building, LS-119, or Psychology Building, PC207.
2. PSYCH 3QQ3 or 4QQ3 will only fulfill the psychology lab requirement if taken under the supervision or co-supervision of a faculty member in the Department of Psychology, Neuroscience and Behaviour.
3. The Psychology, Neuroscience & Behaviour Department pre-registration ballot will be done in two phases. The first phase will include the thesis courses (PSYCH 4D09, 4DD6), and the Individual Study courses (PSYCH 3Q03, 3QQ3, 4Q03, 4QQ3). Students wishing to take these courses must complete and submit a ballot by **mid February**. The second phase will include lab courses (PSYCH 3EE3, 3L03, 3LL3, 3MM3, 3S03, 3V03). Students wishing to take these courses must complete and submit a ballot by **mid April**. Ballots can be obtained from the Department of Psychology, Neuroscience & Behaviour web site at <http://www.mcmaster.ca/psychology>.
4. Students who do not obtain the minimum Cumulative Average as stated in the prerequisite of one of BIOLOGY 4C09, 4F06 or PSYCH 4D09, 4DD6 may request a requisite waiver from the Undergraduate Associate Chair of the Department. Students denied permission may not continue in the program and may apply to transfer to Honours Biology or Honours Psychology, Neuroscience & Behaviour and apply to graduate with a Minor in the alternate subject area.
5. Students who entered the program prior to September 2008 should refer to the Undergraduate Calendar of the year they entered the program or their personal degree audit for program requirements.

BIOLOGY COURSE LIST

BIOCHEM 2EE3, 3H03, 3N03, 4E03, 4EE3, 4K03, 4Q03; BIOLOGY 2A03, 2B03, 2D03, 2EE3, 2F03, 2G03, 2I03, 2L03, all Level III and IV Biology and Molecular Biology courses; HTH SCI 3I03, 4BB3, 4II3; LIFE SCI 2B03, 2F03, 3D03; MED PHYS 3T03, 4B03.

PSYCHOLOGY COURSE LIST

KINESIOL 3E03, 4P03; LIFE SCI 3K03; MUSICCOG 2A03 3A03; 3B03, PSYCH 2E03, 2F03, 2H03, 2TT3, all Level III and IV Psychology courses (PSYCH 2AA3, 2AP3, 2B03, 2C03, 2S03, 3AB3, 3AC3, 3AG3, 3BA3, 3CB3, 3CD3 may only be used as elective credit.)

PSYCHOLOGY LAB COURSE LIST

PSYCH 3EE3, 3L03, 3LL3, 3MM3, 3QQ3, 3S03, 3V03, 4QQ3 (All Psychology lab courses have limited enrolment. See *Notes 2 and 3* above.)

REQUIREMENTS: 120 UNITS (LEVELS 1 TO IV)

LEVEL 1: 30 UNITS (*See Admission*)

LEVELS II: 30 UNITS

3 units BIOLOGY 2C03 (Genetics)

3 units from BIOLOGY 2A03 (Animal Physiology), BIOLOGY 2B03 (or LIFE SCI 2B03) (Cell Biology), BIOLOGY 2F03 (or LIFE SCI 2F03) (Ecology)

6 units CHEM 20A3, 2OB3 (Organic Chem I & II)

6 units PSYCH 2RA3, 2RB3 (Research Design & Stats I & II)

6 units from PSYCH 2E03 (Sensory Processes), 2F03 (Neuroscience), 2H03 (Cognition), 2TT3 (Animal Behaviour) (must include 3 units from PSYCH 2F03 or 2TT3)

6 units Electives

LEVEL III: 30 UNITS

3 units BIOCHEM 3G03 (Proteins & Nucleic Acids)

9 units from Biology Course List (with at least 3 units from Level III)

6 units from Psychology Course List (with at least 3 units from Level III-IV)

3 units from Level III or IV Biology or Psychology Course List

3 units from Psychology Lab Course List

6 units Electives

LEVEL IV: 30 UNITS

24 units from Level III or IV Biology or Psychology Course List including at least 9 units from Biology Course List and 9 units from Psychology Course List. One thesis course, BIOLOGY 4C09, 4F06, or PSYCH 4D09, 4DD6 must be included.

6 units Electives

Many Biology & Psychology graduates choose to pursue careers in university or industrial research, genetic counseling, education, ethology, and an array of professions open to professional psychologists. The program is also compatible with pre-medical preparation.