

COMBINED HONOURS & SPECIALIZATIONS PROGRAMS

Honours Biology and Psychology

The Honours degree in Biology and Psychology is designed for students who are interested in biology and psychology from a behavioural and neurobiological perspective. This program gives students the freedom to choose from two departments, so that they may explore genetics, development and the neural basis of behaviour while also learning about evolutionary psychology, cell biology, cognition and sensory physiology. This flexible program culminates in a fourth year research thesis, which may be taken under the supervision of faculty in either the Department of Biology or the Department of Psychology, Neuroscience and Behaviour, and affords an opportunity for first-hand experience in anything from clinical studies of child development to computational neuroscience to molecular biology. This Biology and Psychology program is compatible with pre-medical preparation. Many of our graduates choose to pursue careers in university or industrial research, genetic counseling, education, ethology, and an array of professions open to professional psychologists.

Counsellors: (PNB) Dr. Gillespie (gilles@mcmaster.ca); Biology) Dr. Jacobs (jacobsr@mcmaster.ca)

Honours (BSc & BA) Psychology, Neuroscience and Behaviour (Music Cognition Specialization)

The Honours (BSc & BA) Psychology, Neuroscience and Behaviour with the Music Cognition Specialization is a multidisciplinary program which brings together science and the arts in a unique and innovative way. Students in psychology, neuroscience and behaviour will be able to complete a series of courses in music cognition (MUSICOG 2A03, 3A03, 3B03, 4D06) such that they can graduate with this specialization. Students will study how the auditory and motor systems interact to produce music, how people encode and recognize music, how music induces emotional reactions, how musical experience and training affect brain development, and how musical training/exposure affects language, cognitive, and social abilities in both children and adults.

<http://mimm.mcmaster.ca/index.htm>

Honours (BSc) Psychology, Neuroscience and Behaviour (Origins Research Specialization)

The Honours (BSc) Psychology, Neuroscience and Behaviour program with the Origins Research Specialization is a multidisciplinary program offered in collaboration with the **Origins Institute**. The Origins Institute was initiated to foster interdisciplinary research on origins themes: the origin of our universe; the origin of elements; the origin of structure in our universe; the origin of life; the origins of species, and the origin of humans. The specialization is designed to re-introduce students to the 19th C. ideal 'Natural Science' (i.e., well-rounded comprehension about the world) but from a modern perspective.

<http://origins.mcmaster.ca>.

Combined Honours Psychology & Another Subject (BA)

Students may combine Honours (BA) Psychology with another subject from the Faculty of Social Sciences, the Faculty of Humanities, or with Arts & Science provided they meet the entry requirements for both programs. Students will normally complete 36 units of work beyond Level I in each subject area. Students graduate with a Combined Honours degree. This is particularly appealing to students who have more than one area of interest.

Honours Linguistic Cognitive Science (BA)

Cognitive Science, the scientific study of the mind and its processes from an inherently multidisciplinary perspective, has been one of the most exciting intellectual developments of the last 25 years. Linguistics is usually considered one of the core disciplines in Cognitive Science, being the study of natural language development, organization, and use, both normal and pathological. This program looks at the relationship between language and mind and serves as a forum to study the nature of thought, emotion, perception, creativity, memory, language, and other aspects of cognition. Areas of specialization include Teaching English as a Second Language, and Pre-Speech Pathology.

<http://www.humanities.mcmaster.ca/programmes/lingcogsci.html>