

## What is Psychology, Neuroscience & Behaviour?

Psychology, Neuroscience & Behaviour (PNB) is the scientific study of brain and behaviour. It covers a wide range of topics from perception (how we see objects, process speech sounds, hear music); to cognition (how we think); to emotion and social behaviour (how we feel, how we interact with others); to psychopathology (how and why does behaviour sometimes go wrong); to development and evolution (how does the organism develop in these various domains; what is the role of genetics in development, what is the role of environment); and how the brain develops and how experience influences its development. Students who graduate from our programs are well prepared for pursuing postgraduate training and careers in science, medicine and related health fields, speech pathology, clinical psychology, and the business world.

### HERE'S A QUICK LOOK AT THE PROGRAMS AVAILABLE THROUGH THE DEPARTMENT OF PSYCHOLOGY, NEUROSCIENCE & BEHAVIOUR (PNB)

- Honours B.Sc. Psychology, Neuroscience & Behaviour
- Honours B.A. Psychology, Neuroscience & Behaviour
- Honours B.Sc. Psychology, Neuroscience & Behaviour (Music Cognition Specialization)
- Honours B.A. Psychology, Neuroscience & Behaviour (Music Cognition Specialization)
- Honours B.Sc. Psychology, Neuroscience & Behaviour (Origins Research Specialization)
- Honours B.Sc. Biology and Psychology
- Honours B.A. Psychology and Another Subject (B.A.)
- Honours Arts & Science and Psychology
- Honours iSCI with a concentration in Psychology, Neuroscience & Behaviour
- Honours B.A. Cognitive Science of Language
- B.A. Psychology (3-yr)
- B.A. Psychology & Bachelor of Social Work (B.S.W.)
- Minor in Psychology

### Ontario High School Requirements for 2011 Entry for Students Interested in Psychology, Neuroscience & Behaviour

The PNB Department offers both **Bachelor of Science (B.Sc.)** degrees through the Faculty of Science, and **Bachelor of Arts (B.A.)** degree through the Faculty of Social Sciences. Following are the requirements for both faculties for the (OSS) High School Curriculum.

#### Faculty of Science (Life Sciences I) (B.Sc.)

OSS High School Curriculum Requirements.:

Completion of OSSD

Six Grade 12 U/M courses including:

English U

Advanced Functions U

Biology U

One of Chemistry U, Physics U, or Calculus  
& Vectors U

*Note: Applicants without Calculus & Vectors U will be required to take an equivalent Calculus course in Year I*

Anticipated percentage cut-off mid to high 80's.

#### Faculty of Social Sciences (Social Sciences I) (B.A.)

OSS High School Curriculum Requirements:

Completion of OSSD

Six Grade 12 U/M courses including:

English U

*Note: Biology U and Advanced Functions U are recommended. Applicants without Advanced Functions U or Biology U will be required to take equivalent courses in Year I.*

Anticipated percentage cut-off mid 70's.

English Language Proficiency: TOEFL – IBT: 86 overall with a minimum score of 20 in each of the four components (Reading, Writing, Speaking, Listening).

## What's the Difference between Hons. B.Sc. and Hons B.A. Programs in Psychology, Neuroscience & Behaviour?

The Honours B.Sc. program is for those students interested in the natural sciences, and thinking about a career in health-related fields, or interested in studying the link between the brain and behaviour. The Honours B.A. program is for those students interested in fields that focus less on the biological and more on the psychological aspects of human behaviour. The psychology courses do not differ between the faculties. It is basically the other courses you take along with Psychology that create the difference. And this is particularly true in Year 1. (See Year 1 Programs below).

### Year 1 (Effective 2011)

#### Year 1 - Life Sciences I

Year 1 required courses for admission to the Hons BSc Psychology, Neuroscience & Behaviour (PNB) degree program in Year II

Psych 1X03 – Introduction to PNB

Psych 1XX3 – Foundations of PNB

Math 1A03 – Calculus I or Math 1LS3 - Math for Life Sciences

Biology 1A03 – Cellular & Molecular

Biology 1M03 – Biodiversity, Evolution & Ecology

One of Chemistry 1A03 – Intro I, Physics 1B03 – Mechanics and Waves, Physics 1L03 – Physics of Living Systems (both a Physics and a Chemistry must be completed by the end of Year 2)

*Note: Students without Grade 12 Calculus & Vectors U must complete Math 1F03 – Intro to Calculus & Analytic Geometry*

#### Year 1 – Social Sciences I

Year I required courses for admission to the Hons BA Psychology, Neuroscience & Behaviour (PNB) degree program in Year II

Psych 1X03 – Introduction to PNB

Psych 1XX3 – Foundations of PNB

One of Biology 1A03 – Cellular & Molecular, Biology

1M03 – Biodiversity, Evolution & Ecology,

Biology 1P03 – Introductory Biology, or credit in Grade 12 Bio U

One of Math 1A03 – Calculus I, Math 1LS3 – Math for Life Sciences, Math 1M03 – Calculus for Social Sciences

*Note: Students without Grade 12 Advanced Functions U must complete Math 1K03 – Intro Calculus for Social Sciences - and depending on mark may have to complete Math 1F03 – Intro to Calculus & Analytic Geometry.*

*Note: Students applying to the 3-yr BA Psych program only require Psych 1X03, Math 1K03, and no Biology.*

## PSYCHOLOGY, NEUROSCIENCE & BEHAVIOUR

### Year II Programs – Effective 2011

#### Admission Requirements

#### Hons B.Sc. Psychology, Neuroscience & Behaviour program

Limited Enrollment Program.

Selection is based on academic achievement but requires as a minimum the following:

Completion of Life Sciences I (See Year 1 above)

with an overall average of 6.0 (C+),

a grade of at least B- in each of PSYCH 1X03 & 1XX3

*Note: Students completing any Level I program will be considered if they have the required courses (as listed above in Year 1) and meet the required marks.*

#### Hons B.A. Psychology, Neuroscience & Behaviour program

Limited Enrollment program

Selection is based on academic achievement but requires as a minimum the following:

Completion of Social Sciences I (See Year 1 above)

with an overall average of 6.0 (C+),

a grade of at least B- in each of PSYCH 1X03 & 1XX3,

and credit in Math 1A03, 1LS3, or at least a C- in

Math 1M03.

*Note: Students completing any Level I program will be considered if they have the required courses (as listed above in Year 1) and meet the required marks.*

**B.A. Psychology program (3-yr)**

This is not a limited enrollment program.

Completion of Social Sciences I (See Year 1 above) with an overall average of 3.5 (between C- and D+), and a C- in Psych 1X03.

Note: Students must complete one of the Math courses by the end of Level 2.

*Note: Students completing any Year 1 program will be considered if they have the required courses (as listed above in Year 1) and meet the required marks.*

For students from **other Canadian provinces**, for **International students**, **part-time** students, and **transfer** students, information on Admissions Requirements can be found on the Registrar Office web site under 'Prospective Students' <http://registrar.mcmaster.ca>

View McMaster's Year 1 Handbook for 2011  
<http://registrar.mcmaster.ca/future/publications.html>

Applications are made through the Ontario University Application Centre (OUAC)  
<http://www.ouac.on.ca>