

## 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 B.A. Linguistic Cognitive Science
- B.A. Psychology (3-yr)
- B.A. Psychology & Bachelor of Social Work (B.S.W.)

## Ontario High School Requirements for 2008-2009 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.)** degrees through the Faculty of Social Sciences. Following are the requirements for both faculties for the (OSS) High School Curriculum.

### Faculty of Science (B.Sc.)

#### OSS High School Curriculum Reqmts.:

Completion of OSSD

Six Grade 12 U or 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 Level I*

Anticipated cut-off average 80-85%

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

#### OSS High School Curriculum Reqmts:

Completion of OSSD

Six Grade 12 U or U/M courses including:

English U

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

Anticipated cut-off average 75-77%

English as a Second Language: TOEFL – 237 or better on computer-based test.

# 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).

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- Honours B.A. Psychology, Neuroscience & Behaviour
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- Honours B.Sc. Psychology, Neuroscience & Behaviour (Origins Research Specialization)
- Honours B.Sc. Biology and Psychology
- Honours B.A. Psychology and Another Subject (B.A.)
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### Year 1 (Effective 2008-2009)

#### Year 1 - Life Sciences I

Level 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

Level 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  
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.*

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

# PSYCHOLOGY, NEUROSCIENCE & BEHAVIOUR

## Level II Honours Programs – Effective 2009-2010

### 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 Level I 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 2008

<http://registrar.mcmaster.ca/EXTERNAL/HANDBOOK/index.htm>

Applications are made through the Ontario University Application Centre (OUAC)

<http://www.ouac.on.ca>