

Honours Psychology, Neuroscience & Behaviour (B.Sc.) (Origins Research Specialization)

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ADMISSION NOTES

1. One of ASTRON 1F03, PHYSICS 1B03, 1BA3, 1BB3, 1F03 must be completed by the end of Level II. Concepts from PHYSICS 1BB3 are particularly useful for understanding neuroscience, mathematical modelling, and perception. Students interested in these areas are encouraged to take PHYSICS 1B03 followed by PHYSICS 1BB3. From the Origins perspective, ASTRON 1F03 (or PHYSICS 1F03) is strongly recommended.
2. One of CHEM 1AA3, ENVIR SCI 1G03 must be completed by the end of Level II.
3. MATH 1B03 is strongly recommended for students intending to pursue graduate work in psychology or neuroscience. COMP SCI 1MA3 or PHYSICS 2G03 is highly recommended for students interested in neuroscience, cognition and perception, and for students intending to pursue graduate work in psychology.

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 PSYCH 1X03 (or 1AA3), 1XX3 (or 1A03) with a grade of at least B- in each
- 3 units from MATH 1A03, 1LS3
- 6 units BIOLOGY 1A03, 1M03 (or 1AA3)
- 3 units CHEM 1A03
- 3 units from PHYSICS 1B03, 1L03 (See *Admission Note 1*)
- 3 units from Life Sciences I Course List (See *Admission Notes 1, 2 & 3*)

PROGRAM NOTES

1. A maximum of six units from PSYCH 3AB3, 3AC3, 3AG3, 3BA3, 3CB3, 3CD3 may be used as electives.
2. The Department of Psychology, Neuroscience & Behaviour pre-registration ballot will be done in two phases. The first phase will include the thesis courses (PSYCH 4D06, 4D09), 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**. Students will be informed of the outcome of the first phase by **mid March**. 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**. Specific dates will be announced during the fall term. Ballots can be obtained from the Department of Psychology, Neuroscience & Behaviour web site at <http://www.mcmaster.ca/psychology>.
3. PSYCH 3Q03 or 4QQ3 may fulfill the Level III Lab requirement only if taken under the supervision or co-supervision of a faculty member in the Department of Psychology, Neuroscience & Behaviour.
4. ORIGINS 2B03, 2LU3 (or 2FF3) and 3SS3 (or 2S03) must be completed by the end of Level III.
5. Effective 2012-2013, students who fail to meet the prerequisites for ORIGINS 4A09 will not be permitted to continue in the Origins Research Specialization, however, if requirements have been met, may apply to graduate with the Minor in Origins Research.

LAB COURSE LIST

PSYCH 3EE3, 3L03, 3LL3, 3MM3, 3QQ3, 3S03, 3V03, 4QQ3

ORIGINS COURSE LIST

ORIGINS 3A03, 3B03, 3C03, 3D03, 3E03, 3F03

PSYCHOLOGY COURSE LIST

BIOLOGY 3P03, 4T03; HTH SCI 4BB3; KINESIOL 3E03, 4P03; LIFE SCI 3K03; MUSICCOG 2A03, 3A03, 3B03; all Level III and IV Psychology courses except PSYCH 3AB3, 3AC3, 3AG3, 3BA3, 3CB3, 3CD3

REQUIREMENTS

120 units total (Levels I to IV), of which no more than 48 units may be Level I

LEVEL I

30 units (See *Admission*)

LEVEL II: 30 UNITS

- 6 units PSYCH 2RA3, 2RB3
- 3 units from PSYCH 2D03, 2F03, 2N03
- 6 units PSYCH 2E03, 2H03, 2TT3
- 6 units ORIGINS 2B03, 2LU3 (or 2FF3) (*See Program Note 4*)
- 0-3 units from ASTRON 1F03, PHYSICS 1B03, 1BA3, 1BB3, 1F03 if not completed in Level I (*See Admission Note 1*)
- 0-3 units from CHEM 1AA3, ENVIR SC 1G03 if not completed in Level I (*See Admission Note 2*)
- 3-9 units Electives

LEVEL III: 30 UNITS

- 3 units from PSYCH 2E03, 2H03, 2TT3
- 6 units from Psychology Course List
- 3 units from Lab Course List (*See Program Notes 2 & 3*)
- 6 units from Origins Course List
- 3 units ORIGINS 3SS3 (or 2S03) (*See Program Note 4*)
- 9 units Electives (*See Program Note 1*)

LEVEL IV: 30 UNITS

- 12 units from Psychology Course List
- 3 units ORIGINS 4RS3 (or 3S03)
- 9 units ORIGINS 4A09 (*See Program Note 5*)
- 9 units Electives (*See Program Note 1*)

Some of the Courses Listed in the Program:

- Origins 2B03 – Big Questions
- Origins 2LU3 – Life in the Universe
- Origins 3SS3 – Origins Senior Seminar
- Origins 4RS3 – Origins Research Seminar

- Psych 2RA3 & 2RB3 – Research Design & Statistics for Behavioural Sciences I & II
- Psych 2D03/2F03/2N03 – Neuroscience/Neuropsychology
- Psych 2E03 – Sensory Processes
- Psych 2H03 – Human Learning & Cognition
- Psych 2TT3 – Animal Behaviour

The Honours (BSc) Psychology, Neuroscience & Behaviour program with the Origins Research Specialization is a transdisciplinary program offered in collaboration with the **Origins Institute**. This specialization addresses the most-interesting and most-important questions in science: How did the universe begin? How did elements form? How did stars, galaxies and planets form? How did life emerge on Earth, and has it also emerged on other planets? What processes account for the diversity and disparity among organisms? How did intelligent beings arise and evolve on Earth? Students graduating from the specialization will possess familiarity with a wide variety of ideas and techniques, which will prepare them well for entry into modern graduate programs, professions, technology, or industry.

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