

## Majoring in Neuroscience

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Neuroscience encompasses a diverse range of disciplines that cross traditional subject boundaries. The study of neuroscience ranges from anatomy to neuronal function; the cellular and molecular biology of the neuron to the complex phenomena of perception, emotion and memory, from the regulation of breathing and blood pressure to movement, development to ageing, normal cognition to neurodegeneration.

A major in Neuroscience is designed to provide a foundation in the basic biology of the brain as well as the fundamentals of cognition. Students are able to focus their cross-disciplinary studies with a molecular, cellular, anatomical and behavioural concentration.

### **For a major in Neuroscience, students are required to complete:**

A cross-disciplinary major requires careful selection of subjects to fulfill the requirements of the major.

#### **Junior units of study**

- (i) 12 credit points from Junior Units of Study from the Science Subject Area of Mathematics; and
- (ii) 24 credit points from Junior Units of Study from the Science Subject Areas of Biology, Chemistry, Computer Science, Physics, Psychology and Molecular Biology. MBLG 1001 is strongly recommended.

#### **Intermediate elective units of study**

It is recommended that intermediate units be chosen from the following Units of Study. ANAT2010, MBLG2771 (or MBLG2001/2101), MBLG 2871, PCOL2011, PCOL 2012, PHSI2005 (2905), PHSI2006 (2906), PSYC2011, PSYC2012, PSYC 2013.

#### **Senior elective units of study**

At least 24 credit points from the following Units of Study:

- PCOL3022 (3922)
- NEUR3001 (3901), NEUR3002 (3902), NEUR3003 (3903), NEUR3004 (3904)
- PSYC 3011, PSYC 3013, PSYC 3014, PSYC 3018

Credit points for **senior electives** must be selected from *at least two (2)* of the subject areas: NEUR, PCOL and PSYC

#### **Honours and post-graduate research:**

Research in neuroscience is vibrant and an international priority area. There are many opportunities for high-achieving students to undertake honours study within the field of neuroscience. Honours projects are typically undertaken within individual disciplines: physiology, anatomy, pharmacology, psychology, pathology and associated institutes. Students should canvass respective departments during their senior studies for details of projects, admission criteria and enrollment details.