Neuroscience (NEUR)

Neuroscience (NEUR) Courses

NEUR 5100 [1.0 credit]
Fundamentals in Neuroscience
A general course covering core neuroscience topics including organization of the nervous system, sensory and motor systems, neuroendocrinology, motivation learning and memory, emotion, attention, and pathology. Course includes attendance of the neuroscience colloquium series.
Also listed as BIOL 5304.
Precludes additional credit for PSYC 5200.

NEUR 5201 [0.5 credit]
Foundations in Statistics for Neuroscience
Extensive use of statistical software to analyze neuroscience data sets to gain practical applied statistical skills. Concepts include data management, statistical modelling through analysis of variance and regression, covariates and hierarchical techniques.
Includes: Experiential Learning Activity

NEUR 5203 [0.5 credit]
Systematic Reviews and Meta-Analysis
Introduces the methodology for conducting systematic reviews and meta-analysis. Topics include: conducting literature searches, extracting relevant literature, assessing quality of studies, and synthesizing findings across studies. Students will be expected to identify a research question, identify relevant literature, and carry out the statistical software.
Prerequisite(s): NEUR 5201.
Also offered at the undergraduate level, with different requirements, as NEUR 4002, for which additional credit is precluded.

NEUR 5800 [0.5 credit]
Special Topics in Neuroscience
An in depth study of current topics in neuroscience and health. Course content varies yearly and has recently included cognitive neuroscience, neuropharmacology, neurodegeneration, neuroimmunology, behavioural medicine, neurobiology of learning and memory, brain mechanisms of ingestive behaviour and energy balance, and molecular neuroscience.
Also listed as BIOL 6203.

NEUR 5801 [0.5 credit]
Knowledge Mobilization
Knowledge mobilization concepts, tools, and frameworks, the challenges and value of translational research, and processes involved in integrated knowledge mobilization. Skills to maximize research impacts will be developed.
Includes: Experiential Learning Activity
Precludes additional credit for HLTH 5300.
Also offered at the undergraduate level, with different requirements, as NEUR 4003, for which additional credit is precluded.

NEUR 5909 [3.0 credits]
M.Sc. Thesis
Includes: Experiential Learning Activity

NEUR 6100 [1.0 credit]
Advanced Seminar in Neuroscience
A comprehensive pro-seminar series, covering issues ranging from cellular and molecular processes through to neural systems and behaviours as well as psychopathology. Students will also be required to attend the Neuroscience colloquia series as part of this course.
Also listed as BIOL 6305.
Precludes additional credit for PSYC 6200, PSYC 6202, PSYC 6203, BIOL 6303, BIOL 6306.
Prerequisite(s): NEUR5100 or equivalent.

NEUR 6200 [1.0 credit]
Comprehensive Examination
The comprehensive examination will consist of both a written thesis proposal and oral candidacy exam. Specific details for both are outlined in the Neuroscience graduate handbook. The comprehensive examination must be completed in its entirety by the end of the 7th semester of PhD study.

NEUR 6301 [0.5 credit]
Techniques in Neuroscience I
Completion of a research project carried out under the supervision of a neuroscience faculty member, normally not the current supervisor. The student will learn a new neuroscience technique and apply it to a research objective. Students must obtain prior approval from the graduate committee.
Precludes additional credit for PSYC 6204.

NEUR 6302 [0.5 credit]
Techniques in Neuroscience II
Completion of a research project carried out under the supervision of a neuroscience faculty member, normally not the current supervisor. The student will learn a new neuroscience technique and apply it to a research objective. Students must obtain prior approval from the graduate committee.
Precludes additional credit for PSYC 6204.
NEUR 6401 [0.5 credit]
Independent Research in Neuroscience I
Permission to register and approval of research plan must be obtained from the graduate committee. A final research report must be filed in the departmental office prior to submission of course grade.
Includes: Experiential Learning Activity
Precludes additional credit for PSYC 5901 and PSYC 6901.

NEUR 6402 [0.5 credit]
Independent Research in Neuroscience II
Permission to register and approval of research plan must be obtained from the graduate committee. A final research report must be filed in the departmental office prior to submission of course grade.
Includes: Experiential Learning Activity
Precludes additional credit for PSYC 5901 and PSYC 6901.

NEUR 6501 [0.5 credit]
Directed Studies in Neuroscience I
In-depth investigation of selected topics in neuroscience by means of directed library research. Registration is restricted, permission to register being granted only by the graduate committee. A final report must be filed in the departmental office prior to submission of course grade.
Precludes additional credit for PSYC 5900 and PSYC 6900.

NEUR 6502 [0.5 credit]
Directed Studies in Neuroscience II
In-depth investigation of selected topics in neuroscience by means of directed library research. Registration is restricted, permission to register being granted only by the graduate committee. A final report must be filed in the departmental office prior to submission of course grade.
Precludes additional credit for PSYC 5900 or PSYC 6900.

NEUR 6909 [0.0 credit]
Ph.D. Thesis
Includes: Experiential Learning Activity