

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]

Statistics for Neuroscience I

Concepts and applications of basic statistical methods.

Power determinations, t-tests, analysis of variance designs, including factorial, within groups, and hierarchical designs, analysis of covariance, and follow-up tests.

Extensive use of statistical software.

Precludes additional credit for PSYC 5410.

NEUR 5202 [0.5 credit]

Statistics for Neuroscience II

Concepts and applications of advanced regression analyses, including multiple regression, hierarchical and polynomial techniques, factor analysis and cluster analysis. Extensive use of statistical software.

Precludes additional credit for PSYC 5411.

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 5909 [3.0 credits]

M.Sc. Thesis

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

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.

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.

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 [7.0 credits]

Ph.D. Thesis

Summer session: some of the courses listed in this Calendar are offered during the summer. Hours and scheduling for summer session courses will differ

significantly from those reported in the fall/winter Calendar. To determine the scheduling and hours for summer session classes, consult the class schedule at central.carleton.ca

Not all courses listed are offered in a given year. For an up-to-date statement of course offerings for the current session and to determine the term of offering, consult the class schedule at central.carleton.ca