



HL1009 Neuroscience 7.5 credits

Neurovetenskap

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for HL1009 valid from Autumn 2007

Grading scale

A, B, C, D, E, FX, F

Education cycle

First cycle

Main field of study

Electrical Engineering

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

To provide a basic knowledge and understanding of the biology of the nervous system, from the function of the single nerve cell to the integrative control of cognitive and other higher brain functions.

Course contents

The function of the single nerve cell at a molecular and cellular level; the organization of the nervous system and its neuronal networks; neural control of simple and more complex functions. The course comprises lectures, practical exercises, and project tasks.

Specific prerequisites

Mandatory courses for B, Bio, D, E, F, K, M or T at KTH, or equivalent.

Course literature

Purves, Augustine, Fitzpatrick, Hall, LaMantia, McNamara, Williams (Eds) Neuroscience 4th ed. Sinauer Associates inc. publishers 2008 (ISBN 978-0-87893-697-7).

Examination

- LAB1 - Laboratory Work, 1.0 credits, grading scale: P, F
- PRO1 - Project Task, 1.5 credits, grading scale: P, F
- TEN1 - Examination, 5.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Practical exercises, project work and written examination.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.

