Faculty of Social Sciences

PSYN50, Psychology: Advanced Cognitive Neuroscience I, 7.5 credits

Psykologi: Avancerad kognitiv neurovetenskap I, 7,5 högskolepoäng

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by the board of the Department of Psychology on 2022-06-07 and was last revised on 2022-06-07. The revised syllabus applies from 2022-09-14, spring semester 2023.

General Information

The course is offered as an elective course in semester 2 of the Master's Programme in Psychology, 120 credits. The course is also offered as a freestanding course.

Language of instruction: English

Main field of studies	*Depth of study relative to the degree requirements*
Psychology	A1N, Second cycle, has only first-cycle course/s as entry requirements

Learning outcomes

On completion of the course the student shall

Knowledge and understanding

- demonstrate in-depth knowledge and understanding of the principles of cognitive neuroscience methods
- demonstrate in-depth knowledge and understanding of important theories within cognitive neuroscience
- demonstrate in-depth knowledge and understanding of current research questions, methodologies and results in the field of cognitive neuroscience

Competence and skills

- demonstrate in-depth ability to independently evaluate, integrate and communicate scientific information within cognitive neuroscience

- demonstrate in-depth ability to independently apply theories of cognitive neuroscience in a critical manner to the understanding of everyday phenomena

Judgement and approach

- demonstrate in-depth ability to independently and critically assess methods of investigation and independently plan basic investigations in the field of cognitive neuroscience
- demonstrate in-depth ability to independently identify and evaluate scientific information in the field of cognitive neuroscience

Course content

The course covers areas of study within cognitive neuroscience and provides advanced theoretical knowledge of the functional neuroanatomy of the brain, cognitive neuroscience research methods, and core processes. Topical areas covered include sensation and perception, learning and memory, cognitive control, and language.

The understanding of normal functioning is the primary focus of the course, but clinical examples are also used as an important contrast to normal functioning. The interdisciplinary nature of the subject is emphasised throughout the course.

Course design

Teaching is mainly in the form of lectures and seminars. Participation in seminars and lab-assignments is compulsory. Students who have been unable to participate due to circumstances such as accidents or sudden illness will have the opportunity to compensate for a seminar or lab-assignment they missed. This applies also to students who have been absent because of duties as an elected student representative. It is the responsibility of the student to contact the course leader in the case of such absence.

Assessment

Assessment is based on attendance of the compulsory sessions and an individual written examination.

Three opportunities for examination are offered for each sub-course in conjunction with the course. Within a year after a major change or termination of the course, at least two further examination opportunities will be offered on the same course content. After that, students will be offered further examination opportunities but in accordance with the current course syllabus.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, E, D, C, B, A.
The highest grade is A, and the lowest passing grade is E. The grade for a non-passing

result is Fail. The student's performance is assessed with reference to the learning outcomes of the course. For the grade of E the student must show acceptable results. For the grade of D the student must show satisfactory results. For the grade of C the student must show good results. For the grade of B the student must show very good results. For the grade of A the student must show excellent results. For the grade of Fail the student must have shown unacceptable results.

To get a passing grade (at least E) in the course, the student has to have completed the compulsory sessions and acquire at least a grade E on the written exams. At the start of the course students are informed about the learning outcomes stated in the syllabus and about the grading scale and how it is applied in the course.

Entry requirements

To be eligible for the course the student must be admitted to the Master of Science Programme in Psychology, 120 credits, or have completed 150 credits, including a Bachelor's degree project in psychology or the equivalent. Oral and written language proficiency in English equivalent to English 6/B from Swedish upper-secondary school is a requirement. International qualifications will be assessed in accordance with national guidelines.

Subcourses in PSYN50, Psychology: Advanced Cognitive Neuroscience I

Applies from V23

2301 Advanced Cognitive Neuroscience I, 7,5 hp
Grading scale: Fail, E, D, C, B, A
2302 Seminars Advanced Cognitive Neuroscience I, 0,0 hp
Grading scale: Fail, Pass