



LUND
UNIVERSITY

Faculty of Social Sciences

PSYN55, Psychology: Advanced Cognitive Neuroscience II, 7.5 credits

Psykologi: Avancerad kognitiv neurovetenskap II, 7,5 högskolepoäng
Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by the board of the Department of Psychology on 2022-10-18 to be valid from 2023-03-14, autumn semester 2023.

General Information

The course is offered as an elective course in semester 3 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

Psychology

Depth of study relative to the degree requirements

A1F, Second cycle, has second-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 identify and formulate novel

This is a translation of the course syllabus approved in Swedish

- questions related to current research topics in the field of 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
- demonstrate a scholarly approach to criticize or justify current stands within the field of cognitive neuroscience and its application

Course content

This course covers areas of study within cognitive neuroscience such as perception, attention, memory, language, emotion and cognitive control and how these interact in everyday situations, as well as research methods within cognitive neuroscience such as brain-imaging techniques.

Building on the theoretical knowledge and skills acquired in Advanced Cognitive Neuroscience I, the course provides extended knowledge of the neural basis of attention, memory, cognitive control, emotion, and social interaction. The course concerns both theoretical and applied aspects of cognitive neuroscience, such as implications for improving formal learning (education), understanding eyewitness memory distortions and biases (forensic), and assessing and treating memory pathology (clinical). The course gives insight into the current directions of the area.

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, seminars and lab-assignments. 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 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, including Advanced Cognitive Neuroscience I, 7.5, or have completed 150 credits, including a Bachelor's degree project in psychology or equivalent, and Advanced Cognitive Neuroscience I, 7.5 hp or 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 PSYN55, Psychology: Advanced Cognitive Neuroscience II

Applies from H23

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