



INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY

SN00040 Neurobiological underpinnings of psychiatric disorders, 2 credits

Underliggande biologiska mekanismer till psykisk sjukdom, 2 högskolepoäng

Third-cycle level / Forskarnivå

Confirmation

This syllabus was confirmed by the Council for PhD Education at Sahlgrenska Academy on 2020-10-07, and is valid from Spring semester 2021.

Responsible Department

Institute of Neuroscience and Physiology, Sahlgrenska Academy

Entry requirements

The course is open for registered doctoral students.

Learning outcomes

- Learn about neurobiological underpinnings of psychiatric disorders
- Receive information regarding the front line in experimental psychiatry

Knowledge and understanding

- Understand how principal changes in neurochemical processes underlies psychiatric disorders

Competence and skills

- Understand and critically review animal models that are commonly used in psychiatric research
- Receive knowledge that can be used to better interpret results derived from animal models of psychiatric disorders

Judgement and approach

- Critically review research connected to experimental psychiatry
- Understand how we can use pharmacological approaches to treat psychiatric disorders

Course content

The following topics will be covered:

- Biological aspects of psychiatric disorders
- Behavioral Neuroscience
- Methodologies that are used in experimental psychiatry and their validity, precision etc.
- Ethical aspects

The course includes self studies, and one full week of lectures, demonstrations and group discussions.

Types of instruction

Course attendees will receive study material at least three weeks before spending one week of lectures, group discussions, demonstrations and examination on campus.

Language of instruction

The course is given in Swedish but can be given in English if necessary.

Grades

The grade Pass (G) or Fail (U) is given in this course.

Types of assessment

Oral examination based on specific questions that the course attendees receive before the start of the course. The course examiner will make sure that each student can address each question in relation to the received study material and the lectures. 70% attendance is also a requirement for passing the course.

If a student, who has been failed on the same examining course component twice, requests a change of examiner before the next examination session, a request of this kind should be sent in writing to the department responsible for the course, and granted, unless there are special reasons to the contrary (Chapter 6, Section 22, Higher Education Ordinance).

Course evaluation

A written course evaluation will be performed both during the course and directly after the course according to the praxis set by Sahlgrenska Academy. The results of the evaluation will be communicated to the students and will function as a guide for the further development of the course. The result and any changes in the set-up of the course shall be communicated both to the students that carried out the evaluation and to the students who are about to start the course.