



## DEPARTMENT OF PSYCHOLOGY

### **PX1161 Neuropsychology, 30 credits**

Neuropsykologi, 30 högskolepoäng

*First Cycle*

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#### **Confirmation**

This course syllabus was confirmed by Department of Psychology on 2016-10-13 and was last revised on 2023-08-23 to be valid from 2023-08-28, autumn semester of 2023.

*Field of education:* Social Sciences 100%

*Department:* Department of Psychology

#### **Position in the educational system**

The course is a single subject course at undergraduate level.

*Main field of studies*

Psychology

*Specialization*

G1N, First cycle, has only upper-secondary level entry requirements

#### **Entry requirements**

General entrance requirements.

#### **Learning outcomes**

Upon successful completion of this course, students will be able to:

*Knowledge and understanding*

- demonstrate basic knowledge about brain organization and function
- demonstrate basic knowledge of brain development and plasticity and the role of genetic factors in behaviour.
- demonstrate knowledge of key theories and concepts regarding the relationship between brain and behavior in areas such as memory, attention, visuospatial function, perception, language, executive function, emotional and social function.
- outline how acquired injuries and altered function can be associated with cognitive,

emotional and social functional limitations.

- demonstrate basic knowledge of the relationship between problems of a neuropsychological nature and neuropsychiatric conditions, neuropathology and psychiatric disorders.

#### *Competence and skills*

- independently search for and compile relevant neuropsychological information from scientific literature
- orally present and discuss information from current scientific literature in the field of neuropsychology

### **Course content**

The course describes the relationship between the brain and behaviour and provides a better understanding of the problems of abnormal brain function. It is aimed at students at the undergraduate level who want to deepen their knowledge of neuropsychology as well as professionals who meet people with brain damage or other forms of abnormal brain function. The course focuses primarily on empirical theory that has a clinical or practical basis and has a focus on adults, but child development and aging are also treated. Both typical and abnormal function are treated

The course consists of four modules:

#### *Sub-courses*

#### **1. Introduction** (*Introduktion*), 7.5 credits

Grading scale: Pass with Distinction (VG), Pass (G) and Fail (U)

The module provides basic information on brain structure and function as well as brain and behaviour in relation to development, plasticity and genetics. It also covers commonly used brain imaging techniques.

#### **2. Neuropsychology, part 1** (*Neuropsykologi del 1*), 7.5 credits

Grading scale: Pass with Distinction (VG), Pass (G) and Fail (U)

The module addresses key aspects of function and dysfunction in cognitive function areas such as visual perception, spatial functions, attention, language, executive functions and memory.

#### **3. Neuropsychology part 2** (*Neuropsykologi del 2*), 7.5 credits

Grading scale: Pass (G) and Fail (U)

The content of this module focuses on different conditions that can lead to neuropsychological functional limitations. The course deals with stroke, traumatic brain injury and other neurological diseases. Furthermore, ADHD, addiction and ageing are described from a neuropsychological perspective. The course also deals

with how physical activity is assumed to affect cognitive function.

#### 4. **Social neuropsychology** (*Social neuropsykologi*), 7.5 credits

Grading scale: Pass with Distinction (VG), Pass (G) and Fail (U)

This module starts with an introduction to different measurement methods in social neuropsychology, followed by a review of different perspectives on emotions and the brain and on emotions and mental health. Mental ill health is described, for example, depression, anxiety, stress and fatigue-related conditions. The rest of the course focuses on social cognition and on functional limitations in this area such as autism and antisocial behaviour.

#### **Form of teaching**

The teaching methods include lectures, seminars, exercises and own in-depth studies with follow-up presentations.

*Language of instruction:* Swedish and English

#### **Assessment**

All teaching, reading list and course materials provided during the course can form the basis for examination. Examination in all four modules is done through individual written assignments/examinations, seminars/exercises and oral presentations. Absence should be compensated according to the instructions of course coordinator.

If a student, who has failed the same examined component twice, wants to change examiner before the next examination, they should submit a written request to the department responsible for the course. The request shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

If the University of Gothenburg has decided that a student is eligible for special study support, the examiner may, provided it is compatible with the aim of the course and it can be done within the scope of available resources, decide to offer the student an adjusted examination or a different examination format.

In cases where a course has been discontinued or has undergone major changes, the student should normally be guaranteed access to at least three opportunities for examination (including the regular examination session) during a period of at least one year, but at the most two years after the course has been discontinued/changed. The above also applies to internships and on-the-job-rainings with the exception that exam is given on only one occasion.

#### **Grades**

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

The grading scale comprises Fail (U), Pass (G) and Pass with Distinction (VG).

To receive a Pass (G) on the whole course, students must:

- get a Pass (G) on all four modules
- actively participate in assessing seminars/exercises and presentations.

To receive a Pass with distinction (VG) on the whole course, students must:

- get a Pass with distinction (VG) on at least two of the modules 1, 2 and 4.
- get a Pass (G) on other modules
- actively participate in assessing seminars/exercises and presentations.

### **Course evaluation**

The course coordinator is responsible for ensuring that students are given the opportunity to provide an anonymous, written course feedback at the end of the course. Upon completion of the course, the course coordinator writes a course report, which includes a summary of students' feedback. The course report is discussed in a relevant course evaluation group and is communicated both to the students, who completed the course evaluation as well as to the students who are starting the course. These reports are available to students.

### **Additional information**

It is the student's responsibility to make sure they have access to digital tools like computer, internet or similar resources.