

Course syllabus for

# Nervous system: Structure and Function, 7.5 credits

Nervsystemets struktur och funktion, 7.5 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

Please note that the course syllabus is available in the following versions:

Spring2008, <u>Autumn2009</u>, <u>Autumn2010</u>, <u>Autumn2011</u>, <u>Autumn2012</u>, <u>Autumn2013</u>, <u>Autumn2014</u>, Autumn2015

Course code 1AU003

Course name Nervous system: Structure and Function

Credits 7.5 credits

Form of Education Higher Education, study regulation 2007

Main field of study Not applicable Level GX - First cycle

Grading scale Pass, Fail

Department Department of Clinical Science, Intervention and Technology

Decided by Programnämnden för audionomprogrammet

Decision date 2007-10-04 Course syllabus valid from Spring 2008

## **Specific entry requirements**

Specific entry requirements according to the programme syllabus of the Study Programme in Audiology, 180 HE credits.

## **Objectives**

The general aim of the course is that the student should acquire basic knowledge of the structure and function of the nervous system. This is necessary to understand the function and pathology treated in future courses in medical audiology. Learning outcomes of the course On completion of the course, the student should be able to: - describe and understand the development of the central and peripheral nervous system and its cellular structure and function, - identify and define neuro-anatomical structures and describe the functions of the sensory and motor parts of the nervous system - account for and understand how the central and peripheral nervous system is organised and how the different parts of the nervous system interact functionally and cognitively, - account for how neurological disorders affect psychological functions during different phases of the human development - describe at a general level how a basic neuropsychological investigation is carried out and what actions it may lead to.

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## **Content**

The course starts with an introduction in medical terminology and basic anatomic and physiological concepts. The course further treats the systematic and topographic organisation of the nervous system and the structure and function of the neuron. The anatomy and pathology of the brain are illustrated through demonstrations. An overview of the functional organisation of the nervous system is given with an emphasis on the sensory and motor systems. Furthermore, the cellular organisation of the nervous system and the biochemical activity of the brain are illustrated. The course also includes an overview of the brain development with a focus on areas relevant to the linguistic, auditory and visual functions, and teaching of neurological disorders and an investigation of these with a focus on auditory functions, language, memory and executive functions.

# **Teaching methods**

Lectures, workshops and demonstrations.

### **Examination**

Examination takes place through Written examination For a Pass grade in the course, attendance at compulsory parts is also required. In case of absence from a compulsory part, the student gets an individual complementary assignment determined by the course coordinator. Students who have not passed the regular examination are offered two re-examinations in connection with the regular opportunity. After that, an examination opportunity is provided before or during semester 3. All in all, there is a possibility of six examinations, the last two in connection with the next regular course.

# **Transitional provisions**

Examination may take place under the previous reading list during a period of one and a half years after the date of the renewal of the reading list. Examination will be provided during a period of three years after a close-down of the course.

## Other directives

A study guide is distributed, including assessment criteria for examination, specific instructions for certain tasks, a timetable specifying compulsory parts, and a list of responsible teachers. Course evaluation will be carried out in accordance with the guidelines established by the Board of Education. Course evaluation will be carried out both through a written course evaluation at the end of the course, and through an oral course forum at least once in connection with the course, where the students may express their opinions. The course replaces AUO35, Neurology and neuropsychology

# Literature and other teaching aids

Lindskog, Bengt I.

Medicinsk miniordbok

Frank, Urban

6., [omarb. och utvidgade] uppl. : Stockholm : Nordiska bokh., 2003 - 492 s., xvi pl.-s. i färg ISBN:91-516-0090-0 LIBRIS-ID:9362592

Library search

Pinel, John P. J.; Edwards, Maggie

A colorful introduction to the anatomy of the human brain: a brain and psychology coloring book

Course code: 1AU003

Boston, Mass; a London: Allyn and Bacon, cop. 1998 - xiv, 226 s.

ISBN:0-205-16299-1 LIBRIS-ID:4709220

Library search

Stirling, John D.

#### **Introducing neuropsychology**

Hove: Psychology Press, 2002 - xviii, 291 s. ISBN:0-415-22758-5 LIBRIS-ID:4921747

Library search

Stirling, John

#### Neuropsykologi: en introduktion

Wallgren, Gunnel A.

Lund : Studentlitteratur, 2004 - 346 s. ISBN:91-44-02775-3 LIBRIS-ID:9559590

Library search

#### Arbetsbok till Människokroppen: fysiologi och anatomi

Sjaastad, Øystein V.; Toverud, Kari C.; Junker Miranda, Ulrika

1. uppl. : Stockholm : Liber, 2003 - 189 s. ISBN:91-47-05184-1 LIBRIS-ID:8909957

Library search

Bjålie, Jan G.; Junker Miranda, Ulrika; Toverud, Kari C.

#### Människokroppen: fysiologi och anatomi

1. uppl. : Stockholm : Liber, 1998 - 486 s.

ISBN:91-47-04919-7 (inb.) LIBRIS-ID:8354339

Library search

Kahle, Werner; Frotscher, Michael

#### Color atlas and textbook of human anatomy.n Vol. 3p Nervous system and sensory organs

5. rev. ed.: Stuttgart; a New York: Thieme, 2003 - 406 s.

ISBN:3-13-533505-4 LIBRIS-ID:9048029

Library search

Lindskog, Bengt I.; Zetterberg, Bengt L.

# Medicinsk terminologi : lexikon : [A-Ö]

Stockholm: Nordiska bokh., 1981 - 620, [10] s. ISBN:91-516-0030-7 (inb.) LIBRIS-ID:8357820

Library search

Sonesson, Bertil; Sonesson Gun, d 1930-

#### Anatomi och fysiologi

4., bearb. uppl. /b [illustrationer: Urban Frank ...] : Stockholm : Liber, 2006 - 396 s.

ISBN:91-47-05256-2 (inb.) LIBRIS-ID:10120875

URL: http://www2.liber.se/bilder/omslag/100/47049050.jpg

Library search