

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:

<u>Spring2008</u>, <u>Autumn2019</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

Revised by Education committee CLINTEC

Last revision 2017-04-02 Course syllabus valid from Autumn 2015

Specific entry requirements

Specific eligibility according to the programme syllabus of the Study Programme in Audiology 180 HE credits.

Objectives

The general aims of the course are that the student should acquire basic knowledge about the structure of the nervous system and function. This is necessary to understand the function and pathology that is treated in a later course in medical audiology of the auditory system.

The expected learning outcomes of the course

On completion of the course, the student should be able to:

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• explain and understand how the central and peripheral nervous system is organised and its cellular structure and function

- identify and define neuro-anatomical structures
- describe and understand development of the central nervous system
- describe the functions of the sensory and motor parts of the nervous system
- describe and understand how the different parts of the nervous system interact in the higher cognitive functions
- explain how neurological disturbances and illnesses can influence sensory, motor, cognitive and executive functions
- know how a neuropsychological investigation is done and which measures it can lead to

Content

The course begins with an introduction to medical terminology and basic anatomical and physiological concepts. The course further treats the systematic and topographic organisation of the nervous system and the cellular organisation and biochemical activity of the nervous system. An overview of the functional organisation of the nervous system with an emphasis on the sensory and motor the system and the higher cognitive functions is given. The course also contains an overview of the development of the brain and teaching of how neurological disturbances can develop. The anatomy and pathology of the brain are also clarified through a demonstration. At the end of the course there is a seminar where students acquire knowledge about how a neuropsychological investigation is done and which measures it can lead to.

Teaching methods

Lectures, exercises, seminars and demonstrations.

Exercises, seminars and demonstrations are compulsory. In case of absence from a compulsory part, the student is responsible for contacting the course coordinator for complementary assignment.

The course coordinator decides how absence from compulsory course elements can be made up. Study results cannot be reported until the student has participated in compulsory course elements or compensated for any absence in accordance with instructions from the course coordinator. Absence from a compulsory course element could mean that the student can not retake the element until the next time the course is offered.

Examination

Written examination

For a Pass grade in the course, attendance and active participation in compulsory parts are also required. Students who do not pass a regular examination are entitled to re-sit the examination on five more occasions. Each time the course is offered, one regular examination and two additional examinations are given. Each occasion the student participates in the same test counts as an examination. Supplementary addition to a written assignment is counted as an examination. Submission of a blank exam paper is regarded as an In case a student is registered for an examination but does not attend, this is not regarded as an examination.

Transitional provisions

The course has been cancelled and was offered for the last time in the fall semester of 2014. Examination will be provided until the spring of 2018 for students who have not completed the course.

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Other directives

The course evaluation will be carried out according to the guidelines that are established by the Board of education. The 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, during which the students can state their opinions.

Literature and other teaching aids

Mandatory literature

Pinel, John P. J.

Biopsychology

Ninth edition. : - xxii, 552 pages

ISBN:9780205915576 (alk. paper) LIBRIS-ID:16015641

Library search

Pinel, John P. J.; Edwards, Maggie

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

2 ed.: Boston, Mass: Allyn and Bacon, c2008 - xiv, 231 p.

ISBN:978-0-205-54874-3 LIBRIS-ID:11439884

Library search

Scientific papers and other relevant materials may be added.

Recommended literature

Medicinsk miniordbok

Lindskog, Bengt I.; Lindskog, Stefan; Nilsson-Ehle, Peter; Wahlberg, Peter

8. uppl. : Lund : Studentlitteratur, 2014 - 508 s.

ISBN:9789144102306 LIBRIS-ID:15408018

Library search

Kahle, Werner; Frotscher, Michael

Color atlas of human anatomy. : Volume 3 Nervous system and sensory organs

6th rev. ed. : Stuttgart : Thieme, cop. 2010. - 412 p.

ISBN:9781604061215 (eISBN) LIBRIS-ID:12040454

Library search

http://ebooks.thieme.com/pdfreader/nervous-systems-sensory-organs-color-atlas-human-anatomy-vol-iii

Color Atlas of Human anatomy Vol 3 Nervous system and Sensory Organs

Other relevant e-books are also available for download from the library of Karolinska Institutet