



**Karolinska
Institutet**

Course syllabus for

Anatomy and Physiology, 4.5 credits

Anatomi och fysiologi, 4.5 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:

Autumn2016 , Autumn2017 , Autumn2018 , Spring2024

Course code	1AU051
Course name	Anatomy and Physiology
Credits	4.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Not applicable
Level	G1 - First cycle 1
Grading scale	Pass, Fail
Department	Department of Clinical Science, Intervention and Technology
Participating institutions	<ul style="list-style-type: none">• Department of Physiology and Pharmacology• Department of Neuroscience
Decided by	Education committee Clintec
Decision date	2016-05-04
Revised by	Education committee CLINTEC
Last revision	2017-04-27
Course syllabus valid from	Autumn 2017

Specific entry requirements

Mathematics 2a / 2b / 2c, Natural Sciences 2, Social Sciences 1b / 1a1+1a2 (field specific entry requirements A14). Or: Mathematics B, Natural Sciences B, Social Sciences A (field specific entry requirements 16).

Objectives

The general aim of the course is that the student should acquire basic knowledge of anatomy and physiology. This knowledge is the basis for courses in medical audiology.

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

- describe the basic principles of the structure of the human body including placement of major organ systems

- briefly describe the physiology of the major organ systems
- explain the cell and tissue structure, including sensory organs anatomy with emphasis on the hearing organ
- explain how the central and peripheral nervous system is organized with ascending and descending path-ways, the brain's vascular system and cranial nerves
- identify and define neuroanatomical structures
- describe the function of nerve and muscle cells, sensory physiology, the function of the autonomic nervous system in addition to sensorimotor function
- explain the peripheral and central auditory system's basic function and describe the speech organs basic function.

Content

The course integrates the basic anatomy and physiology. The course content is an prerequisite for further studies on diseases and conditions which have a special connection to the auditory system as well as disorders of voice, speech and language.

The course includes theoretical starting points for the basic anatomy of the human body, the structures of the cells and tissues and the anatomy the sensory organs. This is integrated with the teaching of the auditory system's basic function as the basic function of speech organs.

Further discussed the brain's vascular supply, the twelve cranial nerves, the neuro-anatomy related to linguistic functions and the gross anatomy of the central auditory system. Basic structure and function of the central and peripheral nervous system integrated with teaching about the function of nerve and muscle cells, the function of the autonomic nervous system and the function of the sensory and motor systems

Teaching methods

Lectures, group exercises and workshops. Group exercises and workshops 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

Examination may take place under the previous reading list during a period of one year after the

renewal of the reading list. Examination will be provided during a period of two years after a close-down of the course.

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

Sand, Olav; et al

Människokroppen : Fysiologi och anatomi

Stockholm : Liber, 2007 - 544s

ISBN:9789147084357

[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](#)

Fysiologi

Lännergren, Jan; Westerblad, Håkan; Ulfendahl, Mats; Lundeberg, Thomas

5., [rev.] uppl. : Lund : Studentlitteratur, 2012 - 354 s.

ISBN:978-91-44-07747-5 LIBRIS-ID:13508738

[Library search](#)