



**Karolinska
Institutet**

Course syllabus for

Physiology - an introductory course, 7.5 credits

Fysiologi - en introduktion, 7.5 hp

This course syllabus is valid from autumn 2017.

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

Autumn2010 , Spring2012 , Autumn2017

Course code	1QA049
Course name	Physiology - an introductory course
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Medicine
Level	First cycle, has only upper-secondary level entry requirements
Grading scale	Pass, Fail
Department	Department of Physiology and Pharmacology
Decided by	Styrelsen för utbildning
Decision date	2010-03-22
Revised by	Education committee FyFa
Last revision	2016-12-20
Course syllabus valid from	Autumn 2017

Specific entry requirements

General admission requirements.

Objectives

The course aim is to introduce the subject physiology with a focus on the healthy human body functions. The course also aims at stimulating a scientific attitude.

Learning outcomes:

Knowledge and understanding

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

- describe basic anatomic structures and use anatomic terminology in the major organ systems
- understand and describe the general functions in:
 - the single cell, the tissues and the musculoskeletal system
 - the nervous system and the sensory organs
 - the heart and the blood circulation
 - the respiratory system
 - the kidneys

- the hormone system
- the digestive tract
- the reproduction system
- the immune system
- the body at work and changes in the surrounding environment

Skills and ability

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

- carry out pulse - and blood pressure measurement
- account for spirometry measurements
- orally and in writing account for a chosen assignment and relate the contents to a physiological context

Assessment ability and attitudes

The student should after the overview be able to:

- identify appropriate scientific literature for a chosen subject, know what is meant with scientific approach.

Content

The course gives an overview of the anatomy and physiology of the human body. The following topics are covered:

- the independent cell, the tissues and the musculoskeletal system
- the nervous system and the sensory organs
- the heart and the blood circulation
- the respiratory system
- the kidneys
- the hormone system
- the digestive tract
- the reproduction
- the immune system
- the body at work and changes in the surrounding environment

Teaching methods

Lectures, practical laboratory sessions, group assignment with oral and written presentation.

Examination

Individual written assignment and group assignment that is presented orally and in writing.

In case of absence from or failed at oral presentation, a complementary assignment will be given.

A student who has failed in the regular examination, is entitled to participate in five more examination sessions. If the student has failed six examinations/tests, no more examination session is offered.

Transitional provisions

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

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

Other directives

Course evaluation will be carried out in accordance with the guidelines established by the Board of Education.

Language of instruction: Swedish.

Literature and other teaching aids

Fysiologi och anatomi : den levande människan

Fasting, Ulla; Hougaard, Jørgen; Ruthman Edström, Mia

1. uppl. : Stockholm : Norstedts, 2009 - 559 s.

ISBN:978-91-1-302279-6 LIBRIS-ID:11378577

URL: http://bilder.panorstedt.se/bilder/omslag/224/13022796_O_1.jpg

[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

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