



**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](http://bilder.panorstedt.se/bilder/omslag/224/13022796_O_1.jpg)

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### **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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