



**Karolinska
Institutet**

Course syllabus for

Anatomy and physiology 2 - Transport and reproduction, 7 credits

Anatomi och fysiologi 2 - Transport och reproduktion, 7 hp

This course syllabus is valid from autumn 2014.

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

[Autumn2010](#) , [Autumn2011](#) , [Autumn2012](#) , [Autumn2014](#) , [Autumn2015](#) , [Autumn2016](#) , [Autumn2017](#) , [Autumn2018](#)

Course code	1RS041
Course name	Anatomy and physiology 2 - Transport and reproduction
Credits	7 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Not applicable
Level	GX - First cycle
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Clinical Science, Intervention and Technology
Decided by	Programnämnd 6
Decision date	2010-05-12
Revised by	Programme Committee 6
Last revision	2014-04-24
Course syllabus valid from	Autumn 2014

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

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

- identify and describe the respiratory and structure and function of the circulatory system.
- identify and describe the structure and function of the gastrointestinal tract.
- identify and describe the structure and function of the secretory organs.
- account for the basic structure and function of the reproductive organs.
- account for endocrine system's basic structure that is linked to respiratory and circulatory system and digestive, urinary and reproductive system functions describe the position of bodies in

relation to one another and the body as a whole.

Content

The student is trained to understand and apply basic anatomic concepts and terminology. The course also treats adequate medical terminology used in anatomic position and motion descriptions.

In this course, the anatomy and physiology of the different organs are studied based on scientific grounds.

In the theme of the respiratory and circulatory system, the structure and tasks of the airways, the lungs, the heart and the blood vessels, and the composition and properties of the blood, are studied.

One theme treats the gastrointestinal system, the gastrointestinal tract, and the organs participating in the digestion process such as the salivary glands, pancreas, the liver and the gall bladder.

Within the theme secretion, the structure and function of the kidneys and the urinary tract in the removal of waste substances from the blood and the regulation of body fluids, are studied.

Under the theme the reproductive organs, an overview of the male and female genital organs is made.

The endocrine system deals with glands and hormones that are linked to the respiratory and circulatory system and digestive, urinary and reproductive system.

Teaching methods

The course comprises lectures, seminars, group assignments and laboratory sessions.

Examination

For a Pass grade in the course, approved participation in compulsory laboratory sessions and seminars, and an approved individual written examination are required.

In consultation with the examiner of the course, the student may get a complementary assignment in case of absence from a compulsory part.

The student is entitled to a total of six test occasions to get passed.

In connection to the course four occasions will be given. One within the course, three occasions at the following re-examinations. In certain cases, it is required that the student submits an exemption application before he/she gets the results of his/her latest completed examination. Two more opportunities will be provided as described above when the course is run next time.

Transitional provisions

The student may be examined under a previous syllabus within a year after the date when a close-down or major changes of the course was decided.

Other directives

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

Literature and other teaching aids

Feneis, Heinz

Anatomisk bildordbok

Dauber, Wolfgang

4., omarb. uppl. : Stockholm : Liber, 2001 - [8], 447 s.

ISBN:91-47-05077-2 LIBRIS-ID:8354393

[Library search](#)

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](#)

Lännergren, Jan

Fysiologi

4., [uppdaterade] uppl. : : Lund : Studentlitteratur, 2007, - 355 s. : ill.

ISBN:978-91-44-04775-1

[Library search](#)

Vigué, Jordi; Martín Orte, Emilio

Atlas över människokroppen

Dunder, Kristina; Ferrón, Miquel; Ferrón, Myriam

1. uppl. : Stockholm : Liber, 2006 - 164 s.

ISBN:91-47-05303-8 (inb.) LIBRIS-ID:10054018

URL: <http://www2.liber.se/bilder/omslag/100/4705303o.jpg>

[Library search](#)

Sand, olav; et al

Människokroppen : Fysiologi och anatomi

Stockholm : Liber, 2007 - 544s

ISBN:9789147084357

[Library search](#)