



**Karolinska
Institutet**

Course syllabus for

Anatomy and Physiology, 13.5 credits

Anatomi och fysiologi, 13.5 hp

This course syllabus is valid from autumn 2024.

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

Autumn2017 , Autumn2021 , Spring2022 , Autumn2024

Course code	1SJ019
Course name	Anatomy and Physiology
Credits	13.5 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 Laboratory Medicine
Decided by	Utbildningsnämnden NVS
Decision date	2017-04-25
Revised by	Education committee NVS
Last revision	2024-03-28
Course syllabus valid from	Autumn 2024

Specific entry requirements

Admitted to the nursing programme. Specific entry requirements: Ma B, Sh A, Nk B (or Fy A, Ke A and Bi A).

Objectives

The aim of the course is that the student should acquire knowledge of the human anatomy and physiology to be able to plan and implement nursing based on scientific based knowledge of the structure and function of the human body.

Intended learning outcomes module 1 and 2

Knowledge and understanding

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

- Describe the structure of the human body on cell-, organs-, organ system- and organism level
- Account for the function of the human body on organs-, organ system- and organism level
- Explain the relationships between structure and function of the human body
- Explain how the different organ systems interact to maintain homeostasis

- Relate physiological examination methods to the function of the circulatory- and the respiratory organs

Skill and ability

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

- account for spirometry measurements
- use correct anatomic terminology

Judgement ability and approach

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

- identify and discuss carrying on equal terms connected to pulse- and blood pressure measurement and ECG registration
- identify and discuss quality and patient security concerning pulse- and blood pressure measurement and ECG registration
- reflect on recommendations on nutrition and physical activity and their connection to the concept health.

Intended learning outcomes module 3

Skill and ability

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

- carry out cardiopulmonary resuscitation (CPR)
- carry out manual pulse- and blood pressure measurement according to evidence-based guidelines and principles for patient safety
- connect and carry out ECG registration
- register oxygen saturation in the blood with pulse oximeter

Content

,

Anatomy och physiology 1, 6.0 hp

Grading scale: GU

Anatomy och physiology 2, 6.0 hp

Grading scale: GU

Practice-integrated learning - Clinical skills, 1.5 hp

Grading scale: GU

Other directives

Course evaluation takes place in accordance with the guidelines established by the Board of Education.

Literature and other teaching aids

Människokroppen : fysiologi och anatomi

Sand, Olav; Sjaastad, Øystein V.; Haug, Egil; Bjålie, Jan G.; Toverud, Kari C.

Bolinder-Palmér, Inger; Olsson, Kristina

Tredje upplagan : Stockholm : Liber, [2021] - 668 sidor

ISBN:9789147142873 LIBRIS-ID:1f7cddfpz3598w7k

Older versions are also available

[Library search](#)

Vårdhandboken

Inera AB,

URL: [Länk](#)

Atlas över människokroppen

Vigué, Jordi; Martín Orte, Emilio; Ferrón, Miquel; Ferrón, Myriam

Dunder, Kristina

2. uppl. : Stockholm : Liber, 2012 - 164 s.

ISBN:9789147105878 (inb.) LIBRIS-ID:12744910

[Library search](#)

Lindskog, Bengt I.; Frank, Urban

Medicinsk miniordbok

6. uppl. : Stockholm : Norstedts akademiska förlag, 2005 - 508 s.

ISBN:91-7227-440-9 LIBRIS-ID:9863879

[Library search](#)