

Course syllabus for

Anatomy and Physiology, 13.5 credits

Anatomi och fysiologi, 13.5 hp

This course syllabus is valid from autumn 2017.

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 of Laboratory Medicine

Decided by Education committee NVS

Decision date 2017-04-25 Course syllabus valid from Autumn 2017

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

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

Course code: 1SJ019

Skill and ability

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

- carry out cardiopulmonary resuscitation (CPR)
- carry out pulse- and blood pressure measurement
- connect and carry out ECG registration
- register oxygen saturation in the blood with pulse oximeter
- 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 the above described skills
- identify and discuss quality and patient security of the above described skills
- reflect on recomendations on nutrition and physical activity and their connection to the concept health.

Content

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Anatomy and Physiology 1, 6 hp In this module, the structure and function of the human body is studied, including changes over the life cycle.. In the module, evidence-based medicine and a scientific approach is introduced as a basis to understand the nursing need of people and to be able to plan and carry out nursing.

Basic cell biology, biochemistry and genetics. Structure, function and cooperation between the organ of the body:

- the nervous system
- the sensory organs
- The circulatory system
- The respiratory system

Anatomy and Physiology 2, 6 hp In this part, the normal structure and function of the human body is studied, including changes over the life cycle. In the course, evidence-based medicine and a scientific approach is introduced as a basis to understand the nursing need of people and to be able to plan and carry out nursing.

Structure, function and cooperation between the organ of the body:

- The endocrine system
- gastrointestinal system
- kidneys and urinary tract
- the musculoskeletal system
- the skin
- the reproduction
- cooperation between organ systems to maintain homeostasis

Clinical skills, 1.5 hp In this module, CPR and physiological examination methods are trained such as ECG, oxygen saturation, pulse- and blood pressure measurement and spirometry.

Examination

Course code: 1SJ019

Other directives

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

Literature and other teaching aids

Sand, Olav

Människokroppen: fysiologi och anatomi

2. uppl. : Stockholm : Liber, 2007 - 544 s.

ISBN:9147084359 (inb.) LIBRIS-ID:10455726

Library search

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