

SYLLABUS

Medical science Anatomy and Physiology in position to Occupational Therapy 15 credits M0031H

**Medicinsk vetenskap: Anatomi och fysiologi med inriktning mot
arbetsterapi**

Course syllabus admitted: Autumn 2019 Sp 1 - Spring 2020 Sp 4

**DECISION DATE
2019-02-26**

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Medicinsk vetenskap: Anatomi och fysiologi med inriktning mot arbetsterapi

First cycle, M0031H

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G VG *	Medicinsk vetenskap	Medicine

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language +

Swedish upper secondary school courses Mathematics 2a/2b/2c , General Science 2, Social Studies 1b/1a1 +1a2 (specifik entry A14).

Or:

Swedish upper secondary school courses Mathematics B, General Science B, Social Studies A (specifik entry 16)

Selection

The selection is based on final school grades or Swedish Scholastic Aptitude Test.

Examiner

Anders Eriksson

Course Aim

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

- Describe how the different organ systems interact.
- Describe basic anatomic concepts, cells and their function as well as tissues, their maturity and aging.
- Describe the anatomy of the human musculoskeletal system, the anatomy and physiology of the skeletal muscle
- Carry out movement analyses and make movement assessments in activity
- Describe the neuron and the anatomy and physiology of the nervous system
- Describe physiological pain mechanisms and their relation to activity
- Describe the anatomy and physiology of the respiratory organs and the circulatory organs and their importance for human activity and different activity requirements
- Describe normal working of physiological functions and nutritional requirements and how they relate to various types of activity and activity requirements
- Describe physiological differences at different ages and between men and women and physiological changes during the life span
- Describe the anatomy and physiology of the internal organs and nutrient management
- Evaluate his/her own knowledge and identify needs for knowledge development

The acquired knowledge constitutes a basis for coming courses in the occupational therapist education

Contents

- Latin nomenclature
- The anatomy of the musculoskeletal system
- Laboratory session on the musculoskeletal system
- Cells and tissue anatomy and physiology
- The anatomy and physiology of the nervous system
- Muscle physiology
- Pain physiology
- The respiratory organs
- The circulatory organs including the lymphatic system
- Exercise physiology

The anatomy-physiology of the internal organs:

- the gastrointestinal canal, liver
- kidneys, adrenal glands, spleen and urinary tract
- nutrition

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

Teaching and learning takes place through own studies, study assignments, group discussions, laboratory work and seminars with oral presentation. Lectures are given within selected course sections. Participation in laboratory work and seminars is compulsory.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. A three-grade scale is used; pass with credit (VG), pass (G) or failed (U). The course objectives are examined through an individual written exam. and seminar, In order to pass the whole course, students must pass all parts and the mandatory components must be completed.

Remarks

This is a first-cycle course. Passing this course constitutes specific entry requirements for placement courses. Study supervision is provided in the course room in Canvas.

Overlap

The course M0031H is equal to M0104H

Literature. Valid from Spring 2018 Sp 4

Compulsory

Bojsen-Møller, F. (2000 or later). Rörelseapparatens anatomi. (1st ed.) Stockholm: Liber.

Henriksson, O., Rasmusson, M. (2013 or later). Fysiologi med relevant anatomi. Studentlitteratur.

Reference literature

Skolin, I. (2010 or later). Näringslära för sjuksköterskor: teori och praktik. (1st ed..) Stockholm: Norstedt.

Working material to be added.

Course offered by

Department of Health Sciences

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0018	Written examination in neuroanatomy and neurophysiology	U G VG *	4.5	Mandatory	A14	
0021	Seminar in nutrition and exercise physiology	U G#	2	Mandatory	A14	
0023	Written examination in the musculoskeletal system	U G VG *	4	Mandatory	A17	
0024	Laboration in palpation	U G#	0.5	Mandatory	A17	
0027	On-Line examination in cells, tissues	U G#	1	Mandatory	A17	
0028	Seminar in circulation, respiration and internal organs	U G#	1.5	Mandatory	A19	
0029	On-line exam in circulation, respiration and internal organs	U G#	1.5	Mandatory	A19	

Last revised

by 2019-02-26

Syllabus established

by Prefekt vid institutionen för Hälsovetenskap 2007-05-15