

SYLLABUS

Medical Science Anatomy/Physiology II in position to Physiotherapy 7.5 credits M0077H

**Medicinsk vetenskap Anatomi/Fysiologi II med inriktning mot
fysioterapi**

Course syllabus admitted: Autumn 2020 Sp 1 - Spring 2021 Sp 4

**DECISION DATE
2020-06-18**

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Medicinsk vetenskap Anatomi/Fysiologi II med inriktning mot fysioterapi

First cycle, M0077H

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 Sport and Health 1, Mathematics 2a/2b/2c, General Science 2, Social Studies 1b/1a1+1a2 (specifik entry A15).

Or:

Swedish upper secondary school courses Sport and health A, Mathematics B, General Science B, Social Studies A (specifik entry 17)

Selection

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

Examiner

Johanna Sundbaum

Course Aim

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

1. Describe how the different organ systems work together
2. Describe the anatomy of the skeletal muscle and physiology
3. Describe physiological pain mechanisms and discuss their relation to physical activity
4. Describe the anatomy and physiology of the respiratory organs and the circulatory organs and describe their importance to human activity
5. Describe for normal work-related physiological functions and nutritional requirements and discuss how they relate to different levels of physical workload
6. Describe physiological differences at different ages and between men and women, and discuss physiological changes during their lifespan
7. Describe the anatomy of the internal organs and nutrition
8. Assess their own knowledge and identify his or her need for knowledge development

The acquired knowledge constitutes a basis for future courses in physiotherapy education

Contents

- Muscle physiology
- Pain physiology
- Respiratory organs
- Circulation organs, including the lymphatic system and immunology
- Exercise physiology
- The anatomy and physiology of the internal organs:
 - The gastrointestinal canal, liver
 - Kidneys, adrenal glands, spleen and urinary tract
 - Nutritional physiology

Realization

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

The instruction is given in the form of literature and hand-outs, lectures, group work and laboratory sessions. Dissection of a pig's heart Laboratory exercises are compulsory components

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. The goals for the course are to be examined through practical exercises, seminars and written individual examination. Examinations request a demonstration of knowledge of the future profession as a physiotherapist . There may be alternative examination forms.

Remarks

The course is given for first-cycle studies. Study Guide can be found in the virtual classroom in Canvas. A pass in this course is required for specific entry requirements for Work Placemen

Overlap

The course M0077H is equal to M0025H, M0113H

The course replaces M0025H.

Literature. Valid from Spring 2020 Sp 4

Abrahamsson, Andersson & Nilsson (red)..(2013). Näringslära för högskolan. Liber AB.

Bojsen-Möller, F (2000 eller senare). Rörelseapparatus anatomi. Liber, Stockholm.

Feneis, H. (2006 eller senare). Anatomisk bildordbok (5:e uppl). Stockholm: Almqvist & Wiksell, Medicin Liber

Lännergren, J., Westerblad, H., Ulfendahl, M. & Lundeberg, T. (2012). Fysiologi. (5., [rev.] uppl.) Lund: Studentlitteratur.

Course offered by

Department of Health, Education and Technology

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Written examination muscle physiology	U G VG *	1	Mandatory	A14	
0002	Written examination in pain physiology	U G VG *	1	Mandatory	A14	
0005	Seminar in nutrition and exercise physiology	U G#	2	Mandatory	A14	
0008	Written exam circulation, respiration and abdominal organs	U G VG *	2.5	Mandatory	A17	
0009	Laboration pulse, blood pressure, palpation	U G#	1	Mandatory	A18	

Last revised

by 2020-06-18

Syllabus established

by Prefekt vid Inst för Hälsovetenskap 2014-06-29