



## Course syllabus

Faculty of Social Sciences

Department of Sport Science

IIV303 Tillämpad träningslära, 15 högskolepoäng

Applied Teaching of Exercise, 15 credits

### **Main field of study**

Sport Science

### **Subject Group**

Sport Science

### **Level of classification**

First Level

### **Progression**

G1N

### **Date of Ratification**

Approved 2009-06-17

Revised 2020-02-27 by Faculty of Social Sciences. Revision of examinations.

The course syllabus is valid from autumn semester 2020

### **Prerequisites**

General entry requirements.

## Objectives

The overall objective of the course is for students to acquire knowledge of the structure and function of the human body with specialisation in sports as well as a general and applied knowledge of the ways in which exercise can be conducted. This basic knowledge should be used to critically examine applied teaching of exercise.

After completing the course, students shall be able to:

- describe the anatomy of the human body
- describe and explain the physiology of the human body
- explain how the human musculoskeletal system functions during different sports
- develop and plan physical activities in relation to an individual's or a group's physical and motor development
- draw up a plan for how physical training can be scheduled and implemented
- describe and evaluate various methods for testing the physical qualities based on target groups
- describe and explain how various sports injuries may be prevented
- evaluate and compare different training methods based on targets and target groups

## Content

The course contains lectures and practical sessions in which the anatomy and physiology of the human musculoskeletal system are discussed, as well as muscle physiology, energy metabolism, the circulatory system and its function, the circulatory system control mechanisms and absorption of oxygen. The impact of heat and body temperature regulation on the practice of sports are also aspects discussed in the course. Functional anatomy and sports mechanisms are used at movement analysis and testing. An overview is also provided of training science/training planning and training science related to the physical qualities: endurance, strength, mobility, fitness, speed and coordination. Studies into sports medicine and preparatory training are included. Parts of the course are focused on young people and their physical training. How the physical qualities can be planned and integrated into a major training schedule is looked into and tested before a major plan is drawn up and presented, which is adapted to an individual and a target group, preferably with creative resources.

## Type of Instruction

Teaching consists of lectures, practical sessions and applications, supervision, literature studies and seminars. A study trip may also be included.

## Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Examination takes place by means of two examinations.

The first examination, comprising 7.5 credits, consists of one written examination and some underlying elements that are part of the examination. These elements consist of two minor written group assignments and one seminar.

The second examination, comprising 7.5 credits, consists of one written group assignment and some underlying elements that are part of the examination. These elements consist of five practical sessions, three minor written group assignments, two seminars and one test.

In order to receive a grade of Pass, the course objectives must be attained.

The test, the seminars and the minor examination assignments are assessed by the grades of Fail or Pass. The written exam and the written group assignment are assessed by the grades of Fail, Pass or Pass with Distinction. To be awarded a grade of Pass with Distinction in the course, the written exam and the written group assignment require the grade of Pass with Distinction, and the other examinations require a grade of Pass.

A retake of the examination is provided in accordance with the Local Regulations for First-Cycle and Second-Cycle Courses and Examination at Linnaeus University.

Should the university determine that a student is entitled to special educational support due to impairment, the examiner may provide the student with an adapted test or the student may carry out the examination in an alternative way.

## Course Evaluation

A course evaluation is carried out either during or at the end of the course. Results and analysis of the evaluation are presented to the students who have completed the course and to the students at the following course date. The course evaluation is conducted anonymously.

## Other

Any additional costs that may arise in connection with the course are paid for by the students themselves.

## Required Reading and Additional Study Material



Expertgrupp från TEAM Danmark (2006). *Talangutveckling*. Farsta: SISU Idrottsböcker, (40 p.) ISBN 91-85433-04-7

Gjerset, Asbjörn et al. (1997). *Idrottens träningslära*. Farsta: SISU Idrottsböcker, (464 p.) ISBN: 9789188940148

Kenney, Larry, Wilmore, Jack & Costill, David. (2012). *Physiology of Sport and Exercise*. Fifth edition. Human Kinetics Publishers, (Selected parts, 300 p.) ISBN-13:978-0-7360-9409-2

Mattsson, Mikael. (2014). *Träningsplanering*. Farsta: SISU Idrottsböcker, (250 p.) ISBN 978-91-87745-00-3

Thomé, Roland, Swärd, Leif & Karlsson, Jon (2011). *Nya motions- och idrottsskador och deras rehabilitering*. Farsta: SISU Idrottsböcker, (344 p.) ISBN: 9789186323097

Tonkonogi, Michail & Bellardini, Helena. (2012). *Åldersanpassad träning för barn och ungdom*. Farsta: SISU Idrottsböcker, (147 p.). ISBN: 9789186323448

Wirhed, Rolf (2007). *Anatomi med rörelselära och styrketräning*. Harpoon publications AB, (150 p.) ISBN13:9789197078115

Scientific articles, app. 300 pages.