

Course syllabus for

Physiology 2, 7.5 credits

Fysiologi 2, 7.5 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

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

Autumn2007, Autumn2008

Course code 1SY009

Course name Physiology 2
Credits 7.5 credits

Form of Education Higher Education, study regulation 2007

Main field of study Not applicable
Level GX - First cycle

Grading scale Pass with distinction, Pass, Fail

Department Department of Physiology and Pharmacology
Decided by Programnämnden för sjukgymnastprogrammet

Decision date 2007-05-23

Revised by Programnämnden för sjukgymnastprogrammet

Last revision 2008-05-28 Course syllabus valid from Autumn 2008

Specific entry requirements

Standardised admission requirements F.1.2.

Objectives

The aim of the course is to introduce the subject physiology with a specialisation in the physiology of the internal organ systems, environmental physiology, exercise physiology, aging physiology, pharmacology and to provide the students an opportunity to develop basic theoretical knowledge in physiology to be able to become part of an integrated clinical thinking. The course also aims at stimulating a scientific attitude. Learning outcomes At the end of the course, the student should: be able to describe and understand - physiological functions in the internal organ systems, i. e. how the body can regulate functions concerning circulation, respiration, digestion, nutrition, fluid regulation and hormonal release; basic parts of pharmacology, be able to describe/account for/explain concepts in the different component parts and relate them to a physiological context, have developed an understanding of how functions in the different internal organ systems can be adapted in connection with various external demands, work and stress; the functions of the body are influenced by the normal aging; the body is influenced by pharmacological intervention

Page 1 of 3

Course code: 1SY009

Content

Physiology 2 may be summarised to include teaching of the function of the internal organ systems and introduction to pharmacology which includes: Blood - the components of the blood, hemostasis Heart and circulation - the conduction system and pumping of the heart, valvular diseases of the heart, methods to examine heart function, hemo-dynamics, blood pressure and blood pressure regulation, the lymphatic system, circulatory adaptation Respiration - respiratory mechanics, lung volumes, gas exchange, gas transport, respiratory regulation Work and environmental physiology - adaptation to various temperatures, high height, diving, submaximal and maximum work Introduction to exercise physiology - the energy system of the muscle, fitness training, strength training Endocrinology Digestion and nutrition Immunology Kidney function and fluid balance Pharmacological basic principles Stress The physiology of aging The course is given in direct connection to the course Anatomy - Theme, man in motion, 7.5 HE credits.

Teaching methods

Teaching is based on lectures, own work with study questions and laboratory sessions. The laboratory sessions in respiration, circulation, submaximal and maximal test of oxygen, absorption ability, lactate-based training and test, and blood glucose regulation in work, aim at carrying out practical experiments based on theoretical parts just treated during the lectures. As a support for the implementation of the laboratory programme, a laboratory compendium is used. In addition to this, the student is expected to acquire a large part of the knowledge through theoretical self-study.

Examination

The course is examined according to the following: written examination. Grading scale: Pass with distinction/Pass/Fail Compulsory participation for a pass grade on a course is: participation in laboratory session Information about complementary assignment is given by the course co-ordinator if attendance at a regular and replacement session is not possible. In case of failure in the regular examination, the student is given the opportunity to return to a make-up examination during the same semester. After that, the student has the possibility to be examined on two occasions each semester in the following semesters. The student may sit, all in all, six examinations in the subject.

Transitional provisions

Examination will be provided during one year after a close-down of the course or a new syllabus.

Other directives

Course evaluation Course evaluation is conducted according to the guidelines established by the Board of Education at KI, and based on established evaluation routines within the programme. During the course, the students are encouraged to communicate their views on the course contents etc Furthermore an opportunity for an oral course council meeting is provided, where a representative from each study group is able to present views to the course director or module coordinator.

Literature and other teaching aids

Lännergren, Jan

Fysiologi

4., [uppdaterade] uppl. : : Lund : Studentlitteratur, 2007, - 355 s. : ill.

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<u>Library search</u>