

SYLLABUS

Medical Science extended cardiology 15 credits M0072H

Medicinsk vetenskap kardiologi fördjupningskurs

Course syllabus admitted: Spring 2016 Sp 3 - Spring 2016 Sp 4

**DECISION DATE
2015-02-12**

Medical Science extended cardiology 15 credits M0072H

Medicinsk vetenskap kardiologi fördjupningskurs

First cycle, M0072H

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 and Registered Nurse, registered Radiology nurse, registered Physical therapist, registered Occupational therapist or comparable education in health care and Medical science: Cardiology 15 ects (e.g M0020H).

Selection

The selection is based on 1-165 credits.

Examiner

Ulrica Strömbäck

Course Aim

On completion of the course, the student should:

- Be able to thoroughly describe the anatomy and physiology of the circulatory system
- Be able to describe cardiological pharmacology
- Be able to describe advanced disease theory and diagnostics within cardiology
- Be able to reflect on ethical considerations within cardiology
- Be able to interpret ECG
- Be able to describe common congenital heart defects in adults

Contents

- Anatomy and Physiology
- Advanced disease theory, e.g. diagnostics and treatment of valve defects
- Pharmacology
- Advanced ECG interpretation
- Brief overview of current physiological, radiological and nuclear medical diagnostic methods within cardiology
- Ethical considerations in cardiological healthcare.
- Acid-base homeostasis
- Congenital heart defects - specialisation in adults
- Evidence-based medicine

Realization

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

The course is carried out as flexible learning by distance. The course is completely web-based. The teaching is given as individual literature studies with support from lectures, seminars, study assignments and an advanced assignment. A scientific and evidence-based view permeates the course. The course contains compulsory modules.

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. Written examination, study assignment and seminar advanced assignment. Criteria for pass and pass with distinction are stated in the study guide.

Remarks

A requirement for carrying out the course is an Internet connection. A computer with headset, microphone and web camera is needed. Study supervision is provided in the course room in Fronter.

Literature. Valid from Spring 2016 Sp 3

Hatchett, R. & Thompson, D.R. (eds.) (2007). Cardiac nursing: a comprehensive guide. (2nd., [rev.] ed.) Edinburgh: Churchill Livingstone.

Jonson, B. & Wollmer, P. (eds.) (2011). Klinisk fysiologi: med nuklearmedicin och klinisk neurofysiologi. (3rd., [rev.] ed.) Stockholm: Liber.

Levick, J.R. (2010). An introduction to cardiovascular physiology. (5th. ed.) London: Hodder Arnold.

Lind, Y. & Lind, L. (2010). EKG-boken, bok med eLab. Stockholm: Liber.

Persson, J. & Stagmo, M. (2008). Perssons kardiologi: hjärtsjukdomar hos vuxna. (6th., updated ed.) Lund: Studentlitteratur.

Wallentin, L. & Lindahl, B. (eds.) (2010). Akut kranskärlssjukdom. (4th. ed.) Stockholm: Liber.

Willman, A., Stoltz, P. & Bahtsevani, C. (2011). Evidensbaserad omvårdnad: en bro mellan forskning & klinisk verksamhet. (3rd., [rev.] ed.) Lund: Studentlitteratur.

Scientific articles to be added

Course offered by

Department of Health Sciences

Items/credits

Number	Type	Credits	Grade
0001	Digital examination	6	U G VG
0002	Assignment report	1.5	U G VG
0003	Assignment report including seminar	4	U G VG
0004	Assignment report ECG	1.5	U G#
0005	Assignment report Evidence	2	U G#

Last revised

by 2015-02-12

Syllabus established

by Prefekt vid Inst för hälsovetenskap 2012-06-21