



Course syllabus

Faculty Board of Health, Social Work and Behavioral Sciences
School of Health and Caring Sciences

4MC600 Medicinsk vetenskap, 7,5 högskolepoäng
Medical science, 7.5 credits

Main field of study

Medical Science

Subject Group

Medicine

Level of classification

Second Level

Progression

A1N

Date of Ratification

Approved by the Board of the School of Health and Caring Sciences 2009-06-17

Revised 2011-08-31

The course syllabus is valid from autumn semester 2011

Prerequisites

NO VALUE DEFINED

Expected learning outcomes

On completion of the course, students should independently be able to:

- explain and analyse physiological processes related to organ systems and their cooperation
- explain the connection between pathophysiological development and illness
- problematize needs, care and treatment related to the patient's status
- relate pathophysiological development to principles for pharmacological treatment
- analyse pain and reflect over principles for the treatment of pain
- analyse the immune system's various mechanisms

Content

Physiology and pathophysiology concerning:

- the body's different organ systems
- pharmacology, pharmacodynamics and pharmacokinetics
- pain and principles for treatment of pain
- immune system

Type of Instruction

Teaching is built on a problem-oriented method of working with active knowledge-seeking, critical thinking and problem solving. Teaching consists of lectures and seminars.

Obligatory attendance is expected throughout the entire course, or parts of it and this is specified in all schedules or study guidelines.

Examination

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

Course Evaluation

A written evaluation is carried out and compiled in a report, which is archived at the institution. The results, along with possible measures taken, are reported to the students the next time the course is given.

Required Reading and Additional Study Material

Gulbrandsen, T. & Stubberud, D-G. (Latest edition). *Intensivvård- Avancerad omvårdnad och behandling*. Polen: Studentlitteratur, (200 p).

Haljamäe, H. & Hjelmqvist, H. (Latest edition). *Vätsketerapi*. Stockholm: Liber, (150 p).

Persson, J. & Stagmo, M. (Latest edition). *Perssons kardiologi. Hjärtsjukdomar hos vuxna*. Lund: Studentlitteratur, (150 p).

Simonsen, T., Aarbakke, J., Hasselström, J. & Lyså, R. (Latest edition). *Illustrerad farmakologi 2. Sjukdomar och behandling*. Järfälla: Natur och Kultur, (200 p).

Vigué-Martin, J. (Latest edition). *Atlas över människokroppen*. Stockholm: Liber, (100 p).

Werner, M. & Strang, P. (Latest edition). *Smärta och smärtbehandling*. Falköping: Liber, (100 p).

Widmaier, E.P., Raff, H. & Strang, K.T. (Latest edition). *Vander's Human Physiology. The Mechanisms of Body Function*. Boston: Mc Graw Hill, (200 p).

Current regulations, statutes and scientific articles included.