



Course syllabus

Faculty of Health and Life Sciences

Department of Chemistry and Biomedical Sciences

1BK014 Sjukdomslära, 7,5 högskolepoäng

1BK014 Pathophysiology and Internal Medicine, 7.5 credits

Main field of study

Biomedical Science

Subject Group

Medicine

Level of classification

First Level

Progression

G1F

Date of Ratification

Approved 2009-12-09

Revised 2022-02-28 by Faculty of Health and Life Sciences.

The course syllabus is valid from autumn semester 2022

Prerequisites

1KE007 Pathophysiology and Internal Medicine 7.5 credits, 1BL008 Cell- and molecular biology with laboratory methodology 15 credits, 1VÅ087 Knowledge of the biomedical scientist profession 7.5 credits, 1BK009 Anatomy and Physiology with Fundamental Clinical Laboratory Methodology 15 credits, 1BK013 Clinical Immunology with Laboratory Methodology 7.5 credits, or the equivalent.

Objectives

After completing the course, the student should be able to:

- explain the aetiology, symptoms, course, and prognosis for diseases where laboratory diagnostic parameters are relevant
- provide an overview of how relevant clinical parameters and laboratory analyses interact in establishing a diagnosis for, understanding the clinical picture of, and determining treatment for the diseases covered in the course
- plan and deliver a slideshow/presentation in a reflective, presentation-oriented, and communicative manner
- critically review, concretise, and analyse a clinical scientific study.

Content

The course discusses the significance of the concepts of disease, health, and ill-health. Additionally, it addresses specific diseases in children and adults, with or without infectious aetiology, in the following areas:

- cardiovascular diseases, including cerebrovascular diseases, atherosclerosis, and hyperlipidemia
- thromboembolic diseases and bleeding disorders
- blood disorders, including lymphatic diseases (malignant, benign)
- neurological diseases
- neuropsychiatric diseases
- respiratory organ diseases (ear, nose, throat, lungs), including asthma, COPD, tuberculosis
- kidney and urinary tract diseases
- digestive system diseases, including liver diseases
- endocrine diseases, including diabetes mellitus
- dermatological and venereal diseases
- presentation techniques in theory and practice in an area of relevance to the course
- analysis and summary of a published scientific clinical study.

Type of Instruction

Instruction is delivered in the form of lectures and a mandatory group exercise. The group exercise includes problem-based learning, where the students create case studies that are shared and discussed with the other groups in the course, with the help of supervision and the course reading and additional study material.

Examination

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

The course is examined through a written exam (5.5 credits; Fail–Pass with Distinction), written and oral presentation of a scientific clinical study (0.5 credits; Fail–Pass with Distinction), and an oral presentation of, and a written reflection on, preparatory work, supported by images (1.5 credits; Fail–Pass with Distinction).

In order to receive the grade of Pass for the course as a whole, the student must have received this grade for all the examination elements and participated in the mandatory group exercise. In order to receive the grade of Pass with Distinction, they must furthermore have received this grade for the written exam.

Resit examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to adapt the exam or to let the student conduct the exam in an alternative way.

Course Evaluation

During or shortly after the course, a course evaluation should be conducted. The result and analysis of the course evaluation should be promptly communicated to the students who have taken the course. Students who are taking the course when it is offered the next time should be informed of the result at the course introduction. The course evaluation is anonymous.

Required Reading and Additional Study Material

Ericson, T., Lind, M. (eds). *Medicinska sjukdomar*. Studentlitteratur, Lund. The latest edition. 792 pp.

Fällman, B. *Tala och engagera. Populär presentationsteknik*. Studentlitteratur, Lund. The latest edition. 98 pp.

Scientific articles, approx. 15–20 pp.

Lindgren, S., EngströmLaurent, A., Karason, K., Tiensuujanson, E. *Medicin*. Studentlitteratur, Lund. The latest edition. 800 pp.

Brauner, A., Castor, B., Falk, K., Kärre, K., Sjöling, Å. *Medicinsk mikrobiologi*. Studentlitteratur, Lund. The latest edition. 892 pp.

Widmaier, E.P., Raff, H. & Strang, K.T. Vanders Human *Physiology, The Mechanism of Body Function*. MacGrawHill Publishing Company. New York. The latest edition. 802 pp.

Saladin, K.S. *Human Anatomy*. McGrawHill Publishing Comp. NY. The latest edition. 816 pp.