Linnæus University

Dnr: 2022/3613-3.1.2.2

Course syllabus

Faculty of Health and Life Sciences

Department of Health and Caring Sciences

1MC610 Människans sjukdomar I, 7,5 högskolepoäng
1MC610 Human Illnesses I, 7.5 credits

Main field of study
Medical Science

Subject Group
Medicine

Level of classification
First Level

Progression
G1N

Date of Ratification
Approved 2011-06-15
Revised 2023-02-13 by Faculty of Health and Life Sciences.
The course syllabus is valid from autumn semester 2023

Prerequisites
General entry requirements + Mathematics 2a alt. Mathematics 2b alt. Mathematics 2c, Science studies 2 and Civics 1b alt. Civics 1a1 +1a2.

Objectives

Knowledge and understanding
After completing the course, the student should be able to:

- A.1 explain fundamental pathophysiological processes and changes in cells and tissues that occur in cell damage and cell death, hypersensitivity reactions, and tumor formation
- A.2 explain the relationship between etiology, pathophysiology, symptoms, diagnostics, and treatment of the most common medical conditions
- A.3 explain different types of pain, as well as their origin and treatment
- A.4 describe fundamental concepts in pharmacology
- A5 describe the specific pharmacology of different diagnoses.

Competence and skills
After completing the course, the student should be able to:

- B1 explain the consequences of diseases for individuals in different life situations
- B2 describe and apply fundamental concepts in medical science and show how they can be communicated in professional conversations.

Judgement and approach
After completing the course, the student should be able to:

- C1 analyse the prevalence of complications in different medical diagnoses
- C2 evaluate the importance of prevention in limiting disease progression.

Content

The course is the first of three courses on human diseases. The learning is based on knowledge acquired in the courses in human anatomy and physiology and microbiology.

The course provides fundamental knowledge and understanding of commonly occurring medical conditions. It also includes a brief introduction to drug calculation, which builds upon previously acquired knowledge in the field.

The following areas are included:

- Allergy and hypersensitivity
- General oncology
- General pathology
- Diabetes
- Cardiovascular diseases
- Respiratory diseases
- Prevention
- Pain
- The wound healing process
- Other endocrine disorders
- General pharmacology
- Specific pharmacology
- Introduction to drug calculation.

Type of Instruction

Instruction is delivered in the form of:

- individual work
- lectures
- seminars
- web-based tests.

These forms of instruction allow for students to take an active responsibility for their learning. Instruction will be delivered in part through a learning platform. Participation in seminars and completion of web-based tests on the course learning platform is mandatory.

Examination

The examination of the course is divided as follows:

Code	Designation	Grade	Credits
2301	General and specific pharmacology	U/G/VG	1,50
2302	General pathology	U/G/VG	2,00
2303	Human Illnesses	U/G/VG	4,00

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

The course is examined through three individual written exams.

The grading criteria for the course, i.e., the basis for assessment, consist of seminars and web-based tests, in addition to three individual written exams.

In order to receive the grade of Pass, the student must have received this grade for the three written exams. In order to receive the grade of Pass with Distinction, the student must have received this grade for the three written exams.

The final course grade is issued when the all the examining assignments have been passed and the mandatory parts of the course have been completed. The mandatory parts may be replaced with other assignment, subject to the examiner's decision.

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.

Objectives achievement

The examination elements are linked to the course objectives in the following ways:

Goal	2301	2302	2303

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

Braun, C., & Anderson, C. (2012). *Patofysiologi.* Studentlitteratur, (in selection, 200 pp.). ISBN: 9789144053479.

Ericson, T., & Lind, M. (2020). *Medicinska sjukdomar.* (5th uedppl.). Studentlitteratur, (in selection, 300 pp.). ISBN: 9789144133058.

Thoresen, H., & Simonsen, T. (2021). *Illustrerad farmakologi.* Studentlitteratur, (in selection, 130 pp). ISBN: 9789144139753.

Research articles in medical science, approx. 10–15 pages.