Linnæus University

Dnr: LNU-2025/1783

Course syllabus

Faculty of Health and Life Sciences
Department of Health and Caring Sciences

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

Main field of study
Medical Science

Subject
Medicine

Level
First cycle

Progression
G1N

Date of Ratification
Approved 2011-06-15.
Revised 2025-05-19. Seminars and web-based tests have previously been mandatory components of the course, but are now converted into examination components and receive 1.0 and 0.5 credits.

The course syllabus is valid from autumn semester 2025.

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.

Examination

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, as well as seminars and web-based tests.
In order to receive the grade, pass the student must achieve this grade on all three written exams, seminars, and web-based tests. In order to receive the grade Pass with Distinction, the student must achieve this grade on all three written exams, as well as a Pass grade on the seminars and web-based tests.
The final grade for the course is issued only when all examination components have been successfully completed.
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 of the course is divided as follows:
Module 2501 General and specific pharmacology 1.0 credits with the grading system UV
Module 2502 General pathology 1.5 credits with the grading system UV
Module 2503 Human Illnesses 3.5 credits with the grading system UV
Module 2504 Seminars 1.0 credits with the grading system UG
Module 2505 Webbtest 0.5 credits with the grading system UG

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

Module 2501 links to the course objectives: A.3, A.4, A.5
Module 2502 links to the course objectives: A.1, A.3, B.2
Module 2503 links to the course objectives: A.2, B.1, B.2, C.1, C.2
Module 2504 links to the course objectives: B.1, B.2, C.1, C.2
Module 2505 links to the course objectives: A.1, A.2, A.3, A.4, A.5

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.