



Faculty of Health, Science and Technology
Clinical Medicine

Syllabus

Pathology II

Course Code: MDGSJ2

Course Title: Pathology II
Sjukdomslära II

Credits: 7.5

Degree Level: Undergraduate level

Progressive Specialisation: First cycle, has less than 60 credits in first-cycle course/s as entry requirements (G1F)

Major Field of Study:

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2025-08-27, and is valid from the Autumn semester 2026 at Karlstad University.

Prerequisites

Anatomy and physiology, 7.5 ECTS credits, or equivalent

Learning Outcomes

The aim of the course is for students to acquire basic knowledge of pathology and related therapeutic strategies.

Upon completion of the course, students should be able to:

1. describe the principal and basic pathological changes in common diseases in acute or chronic form,
2. demonstrate general knowledge of epidemiology and the underlying causes, that is, etiology, symptoms, treatment, and prognosis for the major somatic diseases in the population,
3. at an overview level, describe pharmacological therapies and other possible treatment forms,

4. give an account of how pathological changes in certain organs can affect other organs and organ systems in the body,
5. describe how various pathophysiological processes can be measured using analyses and diagnostic methods,
6. connect biomedical knowledge to current medical research, and
7. discuss ethical aspects in relation to disease and diagnostics.

Content

Instruction is in the form of lectures and supervision.

The course covers the following:

Blood disorders

Gastrointestinal diseases

Diseases of the kidneys and urinary tract

Diseases of the skeleton, muscles, and joints

Neurological diseases

Diseases of the reproductive organs

Disorders of fluid and electrolyte balance as well as acid-base balance

Treatment, chemical and physiological examinations, and disease prevalence in different population groups will be linked to each disease category.

Reading List

See separate document.

Examination

Assessment is based on a written exam and hand-in assignments discussed in seminars.

Submissions for assessment in seminars must clearly indicate individual contributions.

If students have a decision from Karlstad University entitling them to Targeted Study Support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

Grades

One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.