



Faculty of Medicine

## LÄKB52, Pathobiology 2, 12 credits

*Patobiologi 2, 12 högskolepoäng*

First Cycle / Grundnivå

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### Details of approval

The syllabus was approved by The Medical Degree Programme Board on 2017-10-11 to be valid from 2017-10-11, spring semester 2018.

### General Information

The course is included in semester 5 of the Master of Science programme in Medicine. It is compulsory.

*Language of instruction:* Swedish  
English-language literature is used.

*Main field of studies*

Medicine

*Depth of study relative to the degree requirements*

G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements

### Learning outcomes

#### Knowledge and understanding

On completion of the course, the students shall be able to

- describe and explain functional changes and pathological conditions in the gastrointestinal tract and liver, kidneys and urinary tract, endocrine organs, mammary glands and genitals, skin, soft tissues and skeleton
- account for the etiology, pathogenesis, natural course, complications and prognosis of diseases discussed, integrating morphological, functional and

- biochemical aspects
- provide a general description of the incidence and prevalence of the most important pathological conditions
- provide a general account of the fundamental principles of the diagnosis of pathological conditions in the different organ systems, using physiological, morphological and biochemical methods

### **Competence and skills**

On completion of the course, the students shall be able to

- interpret examination findings and opinions from chemical, physiological and morphological examinations, including post-mortem examinations
- use a medical history. description of symptoms or abnormal examination findings to identify possible explanations or pathological causes, and propose further laboratory tests
- present and critically review research articles within the subject areas of the course

### **Judgement and approach**

On completion of the course, the students shall be able to

- assess their need of knowledge and take responsibility for their own knowledge development
- reflect on the value and integrity of people, and on ethical aspects of post-mortem examinations

### **Course content**

The course follows on directly from Pathobiology I and comprises diseases of the gastrointestinal tract, kidneys and urinary tract, endocrine organs, genitals and mammary glands, skin, muscles and skeleton. The course provides the basic knowledge and skills in pathobiology and laboratory medicine diagnosis that are required for future clinical training and for the medical profession.

The course learning outcomes comprise some of the basic scientific skills of subsequent clinical and laboratory situations: abdominal pain, blood in vomit, nausea and vomiting, diarrhoea, painful and/or swollen joint, blood in faeces/dicoloured faeces, blood in urine/proteinuria, fatigue, swollen extremities, swollen abdomen, dependency and abuse, changed fluid and electrolyte balance, changed skin colour, pain on defecation, heartburn/acid reflux, loss of appetite, weight loss, long-term pain.

## Course design

The course is based on PBL cases, laboratory sessions, seminars and demonstrations, outline lectures and interdisciplinary themes with participants from preclinical and clinical subjects. All scheduled tuition, except lectures, is compulsory.

## Assessment

Written exam based on the learning outcomes stated for the course (6 credits)

Course portfolio (6 credits) consisting of:

- passed PBL work
- self-assessment of PBL work
- documentation of active participation in post-mortem examinations, laboratory sessions and microscopy seminars
- documentation of attendance at demonstrations

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

*Subcourses that are part of this course can be found in an appendix at the end of this document.*

## Grades

Marking scale: Fail, Pass.

## Entry requirements

To be admitted to the course, students must have passed courses (all assessed components) up to and including semester 3 of the Master of Science programme in Medicine and completed the courses of semester 4.

## Further information

The course has the same content as Pathobiology 2 (LÄMA52 and LÄLA52).

It includes parts of the previous course in Special Pathobiology (LÄL556 and LÄM556). It is taught alongside 3 credits of the professional development component of the medical degree programme.

## Subcourses in LÄKB52, Pathobiology 2

Applies from V18

- 1701 Written Test, 6,0 hp  
Grading scale: Fail, Pass
- 1702 Portfolio, 6,0 hp  
Grading scale: Fail, Pass