### Course syllabus

**Pathology, symptoms and diagnostics**

Reg no 513-4138

| Name of course          | Pathology, symptoms and diagnostics  
<table>
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<tbody>
<tr>
<td>Credits</td>
<td>30.0</td>
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<tr>
<td>Course code</td>
<td>3ME055</td>
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<tr>
<td>Responsible department</td>
<td>Department of Medical Biosciences</td>
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| Main field of study     | Medicine
    | Subjects included: Pathology, clinical chemistry, clinical physiology, clinical genetics and clinical immunology. |
| Level                   | First cycle (undergraduate)         |
| Disciplinary domain     | Medicine                            |
| Grades                  | The grades given are Pass (G), or Fail (U). |
| Programme affiliation   | The course is included in a Master of Science in Medicine and can be included in a Bachelor's or Master's degree having medicine as its main field of study. |

**Establishment**

This course syllabus is valid as of 1 January 2009 as established by the Programme Council for the Medical Doctor Programme on 17 November 2008.

**Content**

Etiology, pathogenesis and disease symptoms in an integrated morphological, biochemical, pathophysiological, molecular and functional perspective.

Diagnostics of disease through laboratory examinations within clinical pathology, clinical chemistry, clinical physiology, clinical genetics and clinical immunology.

Rules, regulations and procedure for post-mortem examinations.

The concept of disease from a multi-dimensional perspective and research ethics.

**Expected learning outcomes**

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

- Describe the mechanisms of the origin and development of disease and its manifestations in the form of molecular, chemical, physiological and morphological changes
- Apply laboratory diagnostics of relevant states of health
- Explain how symptoms arise
- Explain how illnesses and their manifestations can be diagnosed
- Understand and analyse the concept of disease
- Identify and appraise ethical problems in medical diagnostic practice and research
- Analyse diagnostic situations from a cultural and gender perspective
- Give a general account of the laws and ordinances that govern special features of laboratory medicine and will know the legal regulations that apply to clinical post-mortems.

### Admission requirements
The structure and function of the organ system (3BM013), Attack and defence (3MB021), Professional development terms 2, 3 and 4 (3ME041, 3ME042, 3ME043), or the equivalent.

### Forms of teaching
Teaching is based on student activity in the form of case work, lectures, laboratory lessons, demonstrations, study visits, post-mortem lessons, seminars, student’s own work with accompanying group work/case work. Attendance is compulsory at registration, case/PBL, laboratory lessons, demonstrations, study visits, post-mortem lessons, group meetings and seminars. There may be teaching in English.

### Examination
The student will be examined through written and/or oral examination. Exams may occur throughout the course and/or at the end of the course.

The course examination can be taken at the regular time and at a resit shortly after that. In addition, it is generally possible, after application, to do the exam prior to the start of every course. In the event of a fail, the student will be able to sit the exam the next time the course/item is given.

A student who has failed the exam has the right to sit the exam another five times in order to gain a pass. After failing four times, the student will be given the opportunity to re-do the course. If, after redoing the course, the student fails both the regular examination and yet another examination after that, he/she must discontinue his/her studies.

A student is guaranteed that the resit examination will be based on the same course syllabus as that used for the ordinary examination for at least two years after the student was first registered.

A student who has failed a course or part of a course twice has the right, after applying in writing to the Programme
Council, to have a different examiner, unless there are special reasons not to do so.

### Credit transfer

When credit transfer is possible, a written application must be submitted to the programme coordinator who, in consultation with the course coordinator, takes a decision on credit transfer. The application must state which course is being referred to Certified copies of course certificates or the equivalent, stating seat of learning, date, subject affiliation, level, number of credits and grade, must be attached. Course syllabi including lists of course books for the courses in question and, if applicable, thesis papers, must also be attached.

### Course books

Nilsson-Ehle P (red.): Laurells Klinisk kemi i praktisk medicin, Studentlitteratur, latest edition  
Jonsson B (red.): Klinisk fysiologi, Liber, latest edition  
Alternatives to 1:  
Alternatives to 2:  
Recommended reading:  
S Jern: Klinisk EKG-diagnostik