

Forensic Biochemistry

Programme course

6 credits

Forensisk biokemi

TFKI92

Valid from: 2017 Spring semester

Determined by

Board of Studies for Chemistry, Biology
and Biotechnology

Date determined

2017-01-25

Main field of study

Chemical Engineering

Course level

First cycle

Advancement level

G1X

Course offered for

- Chemical Analysis Engineering, B Sc in Engineering

Specific information

This course cannot be included in the same degree as the course TFKI18.

Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Prerequisites

Biochemistry

Intended learning outcomes

The objective of the course is to give comprehensive knowledge in the following areas:

- Describe the methods used in forensic science
- Use and evaluate basic laboratory techniques and interpret experimentally determined data in a written laboratory report

Course content

Basic molecular biology techniques used in forensic science such as PCR and DNA analysis. The laboratory part: Analysis of DNA by PCR techniques.

Teaching and working methods

The theory is mainly presented in lectures. Solving of problems, discussions of theoretical and practical aspects of experiments in the laboratory are performed in lessons. The lecture course is examined in an individual written examination (KTR1). Theoretical and practical aspects of are illustrated in the laboratory course. The results of the experimental work should be presented and discussed in written reports.

Examination

| | | | |
|------|-------------------------|-----------|------|
| KTR1 | Individual written test | 1 credits | U, G |
| LAB1 | Laboratory work | 3 credits | U, G |
| UPG2 | Hand-in assignment | 2 credits | U, G |
| UPG1 | | 0 credits | |

Grades are given as 'Fail' or 'Pass'.

Grades

Two-grade scale, U, G

Department

Institutionen för fysik, kemi och biologi

Director of Studies or equivalent

Magdalena Svensson

Examiner

Lars-Göran Mårtensson

Education components

Preliminary scheduled hours: 54 h

Recommended self-study hours: 106 h

Course literature

Preliminärt Jackson & Jackson Forensic Science. Laborationskompendier från institutionen.

Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.