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://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.