

Environmental Protection and Environmental Impact Assessments

Programme course

9 credits

Miljöskydd och miljökonsekvensbeskrivningar

NBIC48

Valid from: 2017 Spring semester

Determined by

Board of Studies for Chemistry, Biology
and Biotechnology

Date determined

2017-01-25

Main field of study

Biology

Course level

First cycle

Advancement level

G2X

Course offered for

•

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

Past exams in courses comparable to 1.25 years of basal biology at Linköping University. Basic knowledge about current environmental problems,

Intended learning outcomes

The course is focused on current practices for environmental management to move towards a sustainable development. It deals with methods and strategies to decrease the environmental impact of human activities, environmental impact assessments and procedures for permit applications. Having successfully completed this course, the student is expected to:

- know the basic principles of the most commonly used techniques to minimize emissions of environmentally harmful substances to air, water and soil.
- know how to perform an Environmental Impact Assessment (EIA), what the document should contain, and in which circumstances and for which cases an EIA is required
- have a basic knowledge about planning processes that are relevant for a sustainable development, and of strategic environmental assessments, including life cycle analysis
- have developed the ability to evaluate documents used in permit applications and environmental planning processes
- have developed the skills to present arguments in written reports

Course content

(1) In-depth studies of some issues of relevance for sustainable development, e.g. energy supply, and management of solid and liquid waste from the human society; (2) Methods for treatment of gas emissions, wastewater, hazardous waste and solid waste (case studies); (3) Use of life cycle analysis for sustainable development (case study); (4) Analysis of Environmental Impact Assessment documents and procedures, and of e.g. solid waste and energy plans (seminars and case studies)

Teaching and working methods

The course includes lectures, seminars, group tasks, computer exercises and study visits. Students will partly work with short case studies in groups of three - four persons, producing written reports that are also presented orally. Participants may have to cover transport costs for educational visits. Some of the lectures and instructions may be given in English.

Examination

UPG2	At-home examination	3 credits	U, G
UPG1	Written reports and group assignment presentations	6 credits	U, G
UPG 2		0 credits	
UPG 1		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

Agneta Johansson

Examiner

Karin Tonderski

Course website and other links

Education components

Preliminary scheduled hours: 66 h

Recommended self-study hours: 174 h

Course literature

Huvudlitteraturen för kursen meddelas innan kursstart. Artiklar som distribueras som pdf-filer Egenvald litteratur till specifika uppgifter

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.