

Environmental Monitoring

Miljöövervakning

7.5 credits

Programme course

746G29

Valid from: 2024 Autumn semester

Determined by	Main field of study	
The Quality Board at the Faculty of Arts and Sciences	Environmental Science	
Date determined	Course level	Progressive specialisation
2009-08-24	First cycle	G1F
Revised by	Disciplinary domain	
Chairman of the Course and Programme Syllabus Board at the Faculty of Arts and Sciences	Natural sciences	
Revision date	Subject group	
2015-11-16; 2022-10-19; 2024-06-19	Environmental Science	
Offered first time	Offered for the last time	
Autumn semester 2009		
Department	Replaced by	
Institutionen för Tema		

Course offered for

- Bachelor's Programme in Environmental Science
- Bachelor's Programme in Environment, Climate, and Sustainable Development

Entry requirements

- Introduction to Environmental Science and Sustainable Development, basic course, 7.5 credits or equivalent.
- Scientific Theories and Methods in Environmental Science, basic course, 15 credits or equivalent.
- Biogeochemistry and Environmental Analysis, continuation course, 15 credits or equivalent whereof 9.5 credits are laboratory teaching activities.

Intended learning outcomes

On completion of the course, the student should be able to:

- design an environmental monitoring programme that can satisfy the purpose of the monitoring
- perform statistical analyses of environmental data
- use mathematical modelling as a tool for analysis and interpretation of environmental data
- account for strengths and weaknesses of different ways to analyse data

Course content

The course contents consists of adequate design of environmental monitoring programmes for retrieving the factual bases that are needed in environmental work. The course also includes methods to analyse and present the data that comprise the results of the environmental monitoring.

Teaching and working methods

This course utilises work in tutorial groups, lectures, seminars, workshops and laboratory sessions. Additional resource sessions may be organised in the course. The students should also study independently. If necessary, the course may be taught in English.

Examination

The course is examined through individual oral presentations, individual written work, written work carried out in groups, oral group presentations and public discussion on another student's work. A passing grade in the course also requires active participation in tutorial group meetings, seminars, laboratory work and other practical parts.

If special circumstances prevail, and if it is possible with consideration of the nature of the compulsory component, the examiner may decide to replace the compulsory component with another equivalent component.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it.

If the coordinator has recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

An examiner may also decide that an adapted examination or alternative form of examination if the examiner assessed that special circumstances prevail, and the examiner assesses that it is possible while maintaining the objectives of the course.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

Grades

Three-grade scale, U, G, VG

Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is conducted in such a way that there are equal opportunities with regard to sex, transgender identity or expression, ethnicity, religion or other belief, disability, sexual orientation and age.

If special circumstances prevail, the vice-chancellor may in a special decision specify the preconditions for temporary deviations from this course syllabus, and delegate the right to take such decisions.