Faculty of Health, Science and Technology
Environmental Science

Syllabus

Environmental risk management

Course Code:	RHG220
Course Title:	Environmental risk management *Hantering av komplexa miljörisker*
Credits:	15
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has less than 60 credits in first-cycle course/s as entry requirements (G1F)

Major Field of Study:
MXA (Environmental Science)
RHA (Risk Management)
RIM (Risk and Environmental Studies)

Course Approval
The syllabus was approved by the Faculty of Health, Science and Technology 2019-02-13, and is valid from the Autumn semester 2019 at Karlstad University.

Prerequisites
Registered for 30 ECTS credits in Environmental Science or Risk and Environmental Studies, including 20 ECTS credits completed, or equivalent

Learning Outcomes
The aim of the course is that students acquire further knowledge in natural science, social sciences, humanities, and technology and apply this knowledge to produce a comprehensive survey of current environmental risks, from causes to measures and strategies. Students have the opportunity to work with authentic tasks and to practise working on a project from problem formulation to a completed report.

Upon completion of the course, students should be able to
- adopt an interdisciplinary perspective,
- collect and assess information on complex environmental risks,
- explain and discuss complex causal relations of environmental risks,
- describe and explain relevant measures,
- outline and discuss strategies for handling environmental risks in relation to given societal goals, and
- discuss and critically reflect on a current issue in the area of complex environmental risks with the help of a chosen analytic framework and make a synthesis.

Students should also be able to
- present results orally and in writing,
- defend their own project and review other projects constructively, and
- plan and lead an excursion component.

Content
Instruction is in the form of lectures, seminars, exercises, and group work in which students address current issues in the environmental risk area from problem formulation to finished report under supervision, thus preparing for the take-home exam. An excursion provides an overview and current examples of causal relations as well as the management of environmental risks.

The course comprises the following components:
- further study of causal relations of current environmental risks in the perspectives of natural science, social sciences, and the humanities,
- further study of technical measures and societal strategies for managing complex environmental risks,
- a method for addressing current issues in the field, and
- introduction to analytic frameworks in environmental studies and risk management.

Reading List
See separate document.

Examination
Assessment is based on written individual and group hand-in assignments, an individual take-home exam, and student performance in planning and leading excursion components in groups. All examination submissions are presented and discussed in seminars. Seminars and excursions are mandatory.

Grades
One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

Quality Assurance
Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate
A course certificate will be provided upon request.

Additional information
The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.

Students have to meet the cost of board, lodging, and travel for off-campus excursions.

Required course for the Environment and Safety Bachelor programme.