



Faculty of Arts and Social Sciences
Environmental Science

Syllabus

Tools of environmental and safety management

Course Code:	MVG310
Course Title:	Tools of environmental and safety management <i>Verktyg i miljö- och säkerhetsarbetet</i>
Credits:	15
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has at least 60 credits in first-cycle course/s as entry requirements (G2F)

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 Arts and Social Sciences 2020-02-17, and is valid from the Autumn semester 2020 at Karlstad University.

Prerequisites

At least 45 ECTS credits completed in the courses MVG100 Introduction to Environment and Safety (15 ECTS credits), RHG100 Natural Science Basis of Risk and Environmental Issues (15 ECTS credits), MVG200 Societal Strategies for Environment and Safety (15 ECTS credits), RHG220 Environmental Risk Management (15 ECTS credits), or equivalent

Learning Outcomes

Upon completion of the course, students should be able to:

1. give an account of a number of key tools in environmental and safety management,
2. describe current legislation and its application in cases where the use of tools are regulated by law,
3. explain how the tools can be applied in environmental and safety management,
4. perform calculations to understand and explain the application of quantitative tools,
5. analyse and discuss the practical application of the tools, and
5. discuss participatory, interdisciplinary, and intersectoral approaches to environmental and safety management, and how these can be realised in practice.

Content

The purpose of the course is for students to acquire knowledge and understanding of a number of key tools (methods, approaches, and practices) in environmental and safety management, and develop their ability to assess the practical applications of them.

The course prepares students for a future profession in the area of environment and safety through study of a number of key tools that are used in practice. These tools are used for decision-making, cooperation and communication, and governance and control. Examples of tools covered are risk and vulnerability analysis, environmental impact assessment, cost-benefit analysis, project management, participatory methods, and environmental management systems.

Knowledge of the tools as well as their applications in practice and examples are included. Students also analyse the practical application of the tools. In cases where the use of the tools are regulated by law, or where calculations play an important role, these aspects are also included in the course.

Reading List

See separate document.

Examination

Assessment is based on mandatory seminars and exercises, a written exam, an individual written specialisation assignment, and peer review of other students' specialisation assignments.

If students have a decision from Karlstad University entitling them to special pedagogical support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

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.

