



Faculty of Health, Science and Technology  
Environmental Science

# Syllabus

## Tools of environmental and safety management

<b>Course Code:</b>	MVG310
<b>Course Title:</b>	Tools of environmental and safety management <i>Verktyg i miljö- och säkerhetsarbetet</i>
<b>Credits:</b>	15
<b>Degree Level:</b>	Undergraduate level
<b>Progressive Specialisation:</b>	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 Health, Science and Technology 2019-02-13, and is valid from the Autumn semester 2019 at Karlstad University.

### Prerequisites

Registration on Introduction to Environment and Safety (15 ECTS credits), Natural Science Basis of Risk and Environmental Issues (15 ECTS credits), Societal Strategies for Environment and Safety (15 ECTS credits), Environmental Risk Management (15 ECTS credits), of which at least 45 ECTS credits are completed, or equivalent

### Learning Outcomes

The aim of the course is that students acquire knowledge and understanding of a number of central tools in environmental and safety management, and develop their ability to assess the practical applications of such tools.

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,
4. assess the practical application of the tools on the basis of an analytical model,
5. discuss participatory, interdisciplinary, and intersectoral approaches, and how these can be realised in practice.

### **Content**

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 studied in relation to three themes:

- tools for decision-making (for instance risk analysis, environmental impact assessment, and cost-benefit analysis (CBA)),
- tools for cooperation and communication (for instance project management, participatory methods), and
- tools for governance and control (for instance environment management systems)

In cases where the use of the tools are regulated by law, this legislation is also included in the course. Knowledge of the tools as well as their applications in practice and examples are included. Students review and assess the practical application of the tools with support from an analytical model. The course also introduces participatory, intersectoral, and interdisciplinary approaches.

### **Reading List**

See separate document.

### **Examination**

Assessment is based on mandatory seminars and exercises, an individual 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.

