



Faculty of Arts and Social Sciences  
Environmental Science

# Syllabus

## Climate Change Adaptation and Mitigation

<b>Course Code:</b>	RHG310
<b>Course Title:</b>	Climate Change Adaptation and Mitigation <i>Klimatanpassning och mitigering</i>
<b>Credits:</b>	15
<b>Degree Level:</b>	Undergraduate level
<b>Progressive Specialisation:</b>	First cycle, has only upper-secondary level entry requirements (G1N)

**Major Field of Study:**  
RIM (Risk and Environmental Studies)

### Course Approval

The syllabus was approved by the Faculty of Arts and Social Sciences 2021-06-09, and is valid from the Spring semester 2022 at Karlstad University.

### Prerequisites

General admission requirements

### Learning Outcomes

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

1. give an account of key concepts related to climate change adaptation, mitigation, and sustainable transformation,
2. explain and demonstrate knowledge of different measures and strategies of climate change adaptation used in different parts of the world,
3. give a general account of solutions and strategies used to decrease the effects of climate change from a systems perspective, and
4. critically examine strategies for climate change adaptation and mitigation.

## **Content**

The course comprises the following components:

- a field visit to a Swedish municipality office to learn about their climate change adaptation and mitigation work
- basic and evidence-based knowledge of climate change adaptation and greenhouse gas emissions reduction,
- key concepts in the area, such as for instance systemic risk, vulnerability, exposure, hazard, sustainability, adaptation, and sustainability transformation
- the significance of climate change adaptation, mitigation, and sustainable transition
- the basics of climate change adaptation and case studies from around the world
- gradual and abrupt transformation, regime shift, and (positive) social tipping points
- climate solutions in different sectors of society
- political governance of climate change adaptation and mitigation, at different levels

Instruction is in the form of lectures, seminars, teaching sessions, and group discussions. Paying a study visit to a Swedish municipality offers the students an opportunity to learn about municipal practices, but the aim is also for the students to use and process this knowledge in various ways throughout the course.

## **Reading List**

See separate document.

## **Examination**

Learning outcome 1 is assessed on the basis of individual written hand-in assignments.

Learning outcomes 1, 2, and 3 are assessed on the basis of group discussions in a digital forum.

Learning outcomes 2 and 3 are assessed on the basis of active participation in a study visit, at the group level.

Learning outcomes 2, 3, and 4 are assessed on the basis of an individual written report and oral presentation.

If students have a decision from Karlstad University entitling them to Targeted Study 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.

Students are responsible for the cost of room, board, and travel, if applicable, in connection with study visits away from the University.