



## GRADUATE SCHOOL

### **GM0728 Advanced Environmental and Resource Economics, 7.5 higher education credits**

Avancerad miljö- och resursekonomi, 7,5 högskolepoäng

*Second Cycle*

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#### **Confirmation**

This course syllabus was confirmed by School of Business, Economics and Law on 2014-04-16 and was last revised on 2015-08-13 to be valid from 2015-08-31, autumn semester of 2015.

*Field of education:* Social Sciences 100%

*Department:* Graduate School

#### **Position in the educational system**

The course can be part of the following programmes: 1) Master of Science in Management (S2MAN), 2) Master of Science in Marketing and Consumption (S2MAC), 3) Master of Science in Accounting (S2ACC), 4) Master of Science in Economics (S2ECO), 5) Programme in Environmental Social Science (SMILM), 6) Programme in Business and Economics (S1HEG), 7) Master of Science in Logistics and Transport Management (S2LOG), 8) Programme in Business and Economics (S1HEM), 9) Program in Environmental Social Science (S1SML), 10) Master of Science in Knowledge-based Entrepreneurship (S2KEN), 11) Programme in Logistics management (S1LOM), 12) Master of Science in Finance (S2FIN), 13) Master of Science in International Business and Trade (S2IBT) and 14) Master of Science in Innovation and Industrial Management (S2IFM)

*Main field of studies*

Economics

*Specialization*

A1N, Second cycle, has only first-cycle course/s as entry requirements

#### **Entry requirements**

To be eligible for the course Environmental and Resource Economics the participant must fulfill the entrance qualifications for the Master of Science programme in Economics. For programme specific entrance requirements, see programme syllabus.

Students from the other Master of Science programmes at the Graduate School may also be eligible for the course.

### **Learning outcomes**

After completion of the course, the student shall be able to:

1. understand and discuss basic theories and models in environmental and resource economics pertaining to various sustainability problems. Students should also be able to explain and present these theories, both on a laymen level and an advance level, and to generalize and apply them to specific sustainability problems.
2. understand the limitations of the specific theories and models that are discussed, as well as the limitation of the overall underlying theory, when applied to each specific problem.

### **Course content**

The overall objective of the course is to give the students comprehensive knowledge of economic theory and how to apply it to environmental problems and resource use. A recurring theme will be sustainability, the impact of today's economic activity on the opportunities of future generations.

Economic activities cause a variety of environmental problems and make extensive use of natural resources. Often, there is a large gap in the value economic actors and society place on the environment/the resource. Economic modeling explains these value differences as effects an action has on others that the acting firm or individual does not account for, and suggests a number of policies aimed at aligning the interests of all stakeholders.

The course provides students with tools and methods to be able to analyze real and important problems and to critically understand limitations of the tools and methods discussed. Issues include local air pollution, sustainable management of fish stocks and climate change. We analyze various policies and management approaches like taxes, quotas, joint management and international environmental agreements. Finally, environmental and resource use problems when considered in a general equilibrium setting are studied, including growth and sustainability, trade and the environment, the

problem of leakage, and the potential for a double dividend.

**Form of teaching**

Lectures

*Language of instruction:* English

**Assessment**

Learning outcome 1 is assessed through written policy briefs, and a written exam.

Learning outcome 2 is assessed through written policy briefs, and a written exam.

The policy briefs should be carried out during the semester when the student is first time registered for the course.

If a student, who has failed the same examined component twice, wishes to change examiner before the next examination, a written application shall be sent to the department responsible for the course and shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In cases where a course has been discontinued or has undergone major changes, the student shall normally be guaranteed at least three examination occasions (including the ordinary examination) during a period of at least one year from the last time the course was given.

Examination possibilities will be offered at least five times during the course of each two-year period. Students who have made five unsuccessful attempts to pass an examination have lost the possibility of obtaining a Master of Science Degree from Graduate School.

**Grades**

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

For Pass on the course, Pass is required on both learning outcomes. For Pass with Distinction on the course, Pass with Distinction is required on at least one of the learning outcomes.

The grade achieved on the policy briefs is valid until the next time the course is offered.

**Course evaluation**

The course will be evaluated upon completion.

The results of and possible changes to the course will be shared with students who participated in the evaluation and students who are starting the course.