

Syllabus

for course at advanced level

Governance and Management of Social-Ecological Systems
Styrning och förvaltning av social-ekologiska system

**15.0 Higher Education
Credits**
15.0 ECTS credits

Course code:	BL8050
Valid from:	Autumn 2011
Date of approval:	2010-08-20
Department	Department of Biology Education
Main field:	Social-Ecological Resilience for Sustainable Development
Specialisation:	A1F - Second cycle, has second-cycle course/s as entry requirements

Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University.

Prerequisites and special admittance requirements

For admission to the course, knowledge is required equivalent to Social-ecological systems: challenges and approaches, 15 credits (BL7028) and Systems theory and resilience thinking, 15 credits (BL8049). English 6 or equivalent.

Course structure

Examination code	Name	Higher Education Credits
8050	Governance and management in social-ecological systems	15
8A50	Challenges of environmental decision-making	4
8B50	Drama of commons	3
8C50	Adaptive management	4
8D50	Adaptive governance	4

Course content

a. This course will explore alternative approaches for analyzing how people make choices, use rules, and learn to manage and govern social-ecological systems.

The course will combine economic approaches to uncertainty, approaches to ecological management that enable learning, how institutional choices shape environmental management, and how governance can be designed to adapt to social-ecological change. Students will learn how to apply cost-benefit analysis, decision analysis under uncertainty, and game theory to the analysis of environmental issues. They will explore successful cases of environmental management, and how governance systems have been successfully transformed. Strategies for effecting positive change in environmental management, and barriers impeding such change will be examined. Students will be introduced to theoretical concepts, methods for analysis, and conduct group and individual research projects that utilize these concepts and methods.

b) The course includes the following elements:

I: Challenges of environmental decision-making(4hp)

II: Drama of the commons (3hp)

III: Adaptive management (4 hp)

IV: Adaptive governance (4 hp)

Learning outcomes

It is expected that the student, after taking the course, will be able to:

- apply cost-benefit analysis and decision analysis in simple real world situations
- be familiar with institutional aspects of social-ecological management that can lead to successful and unsuccessful management
- use game theory to analyze the creation of ecological problems
- analyze the ability of different aspects of ecological management to support or impede learning
- explain the challenges and opportunities of adaptive governance.

Education

The education consists of lectures, group exercises and seminars

Participation in group exercises, seminars and group education associated with this is compulsory. An examiner may rule that a student is not obliged to participate in certain compulsory education if there are special grounds for this after consultation with the relevant teacher.

Forms of examination

a. Examination for the course is in the following manner: measurement of knowledge takes place through: Written and/or oral presentations and activity at seminars.

b. Grading is carried out according to a 7-point scale related to learning objectives:

- A = Excellent
- B = Very Good
- C = Good
- D = Satisfactory
- E = Sufficient
- Fx = Fail
- F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course, together with:

- participation in all compulsory education

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term “examination” here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

Limitations

The course can not be included in a degree together with the courses Natural Resource Management, Governance and Globalization 40 p (BI4660) and Natural Resources and Society 15 hp (BL7013) or the equivalents.

Misc

The course is a component of the Master's Programme in Resilience in Social-Ecological Systems, and it can also be taken as an individual course.

Required reading

Course literature is decided by the departmental board and is described in an appendix to the syllabus.