

Syllabus for Frontiers in Ecology 7.5 ECTS credits

1. Course details

Approved by the Education Committee of the Faculty of Science 01-03-2007. The syllabus is valid from 01-07-2007. The course is at the Second cycle.

2. General information

The course is part of the main field of study in Biology at the Faculty of Science. The course is optional in a Master's degree in Science, with a major in Biology. The course is also offered as a single subject course. The language of instruction is English if necessary.

3. Learning outcomes

On completion of the course, the students shall have acquired the following knowledge and understanding:

- be able to describe some research areas of ecology and participate in the scientific discussion of these,
- be able to link together different ecological research fields and understand how they may inspire each other,
- be able to describe the development of ecology and its influence on other disciplines,
- be able to give an account of how different forces, within and outside the scientific community, affect research directions and extent,
- be aware of how basic and applied ecology affect each other,
- be able to search and evaluate scientific knowledge.

4. Course contents

Different areas of ecology which are subject to intensive research and/or development for practical use, e.g. landscape ecology, sensory ecology, speciation, climate change and between-ecosystems processes, will be treated. The historical developments of ecology and its sub-disciplines. Identification of factors affecting research directions and extent. Practice on information search.

5. Teaching and assessment

Teaching consists of lectures, seminars, group exercises and own works. Seminars, exercises, and the course elements associated with these are compulsory.

Examination is made continuously during the course and takes into account the student's understanding, motivation and maturity, and her/his own works.

6. Grades

Students are awarded one of the following grades: Distinction, Pass or Fail.

To be awarded a Pass on the whole course the student shall have actively participated in the compulsory parts of the course, and approved own works are required.

The final grade for the course is determined by the aggregated results of the own projects and oral presentations.

7. Admission requirements

To be eligible for the course requires: Bachelor's Degree in Biology, or corresponding.

8. Literature

According to a list established by the department, available at least five weeks before the start of the course, <http://www.lu.se/biology-education>.