



Faculty of Social and Life Sciences

Biology

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Social and Life Sciences on 30 May 2007, and is valid from the Autumn semester of 2007 at Karlstad University.

Course Code: BIAD03

Ecological Resource Management, 15.0 ECTS Credits

(Ekologisk miljövård, 15.0 Swedish credit points)

Degree Level: Master

Progressive Specialisation: A1N (Second cycle, has only first-cycle course/s as entry requirements)

Language of Instruction

Swedish

Prerequisites

75 ECTS Biology cr., including 15 ECTS cr. of Aquatic Ecology, or 15 ECTS cr. of Environmental Conservation Biology, or equivalent

Major Field of Study

BIA (Biology)

Learning Outcomes

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

- demonstrate insight into how to manage resources and handle preservation problems in terrestrial and aquatic systems on a global, regional, and local level, as exemplified in the following areas:
 - preservation strategies
 - biological diversity
 - issues of energy production, especially hydropower
 - eutrophication issues and restoration strategies for aquatic environments
 - issues of acidification, hazardous waste, and water purification
 - the environmental effects of various infrastructures
 - issues related to agriculture (forest exploitation, hunting, fishing, legal right of access to private land)
 - issues related to global warming
 - issues related to alien species
- insight into legal frameworks and international conventions regarding different levels of preservation
- demonstrate insight into the implementation of environmental work
- plan an exploratory project tied to environmental problems in terrestrial and aquatic systems
- integrate knowledge as well as analyse, evaluate, and present data from complex analyses
- lead and summarise seminary discussions on environmental management
- present the results of investigations in oral as well as written form to various target audiences
- communicate theories, complex problems, and research results to specialists and non-specialists regarding materials within the scope of this course
- understand the value of a scientific approach to investigative work in the field of environmental conservation,

along with its limitations

Content and Form of Instruction

The course covers eight different subtopics, each of which contains:

- theory instruction in the form of lectures and/or prepared seminars or group exercises for review and discussion of the theoretical content of the course. Attendance at these instructional activities is mandatory.
- one practical assignment given individually or in groups to give in-depth, hands-on experience with the topic
- written and/or oral presentation of the practical task

The course will include one study trip.

Each component is mandatory as necessary to achieve the stated goals of the course. Study trips and seminars are mandatory.

Reading List

See separate document.

Examination

A written examination is arranged at the conclusion of the course and at one additional point during the term.

- Knowledge and understanding of the theoretical material is tested by written examination and/or by the student taking an active part in the discussion seminars of the course.
- The ability to apply the theoretical knowledge is tested by the student's active participation in the presentations and discussion seminars of the course.
- The ability to express the knowledge gained is tested by submission of assignment materials and by oral presentations.
- The ability to keep a scientific approach to collected facts is tested by written reports, assigned as individual or group tasks, and by discussion seminars.

Examination according to this syllabus can be completed up to one year after its replacement by another syllabus. There will be an opportunity to take the exams of discontinued course materials, twice in the first academic year that the course is not offered and once again in the second academic year.

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 assessment is based on student views and experiences as reported in written course evaluations and/or group discussions. Students will be informed of the result of the evaluation and of the measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional Information

Students who enrolled before 1 July 2007 will complete their studies in accordance with the requirements of the earlier admission. Upon completion students may request degree and course certificates to be issued under the current ordinance if they meet its requirements.

The local regulations for studies at the Bachelor's and Master's levels at Karlstad University stipulate the obligations and rights of students and staff.

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