Mittuniversitetet
MID SWEDEN UNIVERSITY

Programme Syllabus:

Ecotechnology

General data

Code	NEKOG
Cycle	First cycle
Ref no	MIUN 2006/1395
Credits	180
Answerable department	Department of Ecotechnology and Sustainable Building Engineering
Answerable faculty	Faculty of Science, Technology and Media
Established	2007-05-15
Date of change	2015-03-04
Version valid from	2015-08-15

Aim

The purpose with the Bachelor's Programme in Ecotechnology is that the student shall develop relevant knowledge about sustainable development of society. Of central importance is that the education should provide knowledge about the use of natural resources in a systems perspective and give good insight into global, regional and local environmental problems and their solutions.

Programme objectives

OUTCOMES ACCORDING TO THE HIGHER EDUCATION ORDINANCE

Knowledge and understanding
For a Degree of Bachelor the student shall
- demonstrate knowledge and understanding in the main field of study, including knowledge of the disciplinary foundation of the field, understanding of applicable methodologies in the field, specialised study in some aspect of the field as well as awareness of current research issues.

Competence and skills
For a Degree of Bachelor the student shall
- demonstrate the ability to search for, gather, evaluate and critically interpret the relevant information for a formulated problem and also discuss phenomena, issues and situations critically
- demonstrate the ability to identify, formulate and solve problems autonomously and to complete tasks within predetermined time frames
- demonstrate the ability to present and discuss information, problems and solutions in speech and writing and in dialogue with different audiences, and
- demonstrate the skills required to work autonomously in the main field of study.

Judgement and approach
For a Degree of Bachelor the student shall
- demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues
- demonstrate insight into the role of knowledge in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the need for further knowledge and ongoing learning.

Content

Environmental Science BA (A), Sustainable Development - an Introduction, 7.5 Credits
Environmental Science BA (A), Environment and Natural Resources, 15 Credits
Environmental Science BA (A), Environment and Mankind, 15 Credits
Environmental Science BA (B), Instruments for Sustainable Development, 7.5 Credits
Environmental Science BA (B), Ecosystem Services, 15 Credits
Environmental Science BA (C), Sustainable Development – Theory and Practice, 15 Credits
Environmental Science BA (C), Individual Assignment, 15 Credits

Environmental Engineering BA (A), Environmental Engineering EkoT1, 7.5 Credits
Environmental Engineering BA (A), Environmental Engineering EkoT2, 7.5 Credits
Environmental Engineering BA (A), Environmental Innovation, 15 Credits
Environmental Engineering BA (B), Society and Technology, 15 Credits

Other Programme Courses:
Business Administration BA (A), Industrial Economy, 7.5 Credits
Mathematics BA (A), Applied Mathematics and Statistics, 7.5 Credits

Optional courses, 30 Credits

Entry requirements

GENERAL ENTRY REQUIREMENTS
Graduation from a complete upper secondary education in Sweden or abroad with exemption from basic proficiency in Swedish. Basic proficiency in English equivalent to English course A/English 5 (proficiency in English can also be proven by for example the international tests TOEFL or IELTS). From July 1st 2013 the lower level of English (English course A/English 5) will no longer give applicants eligibility. The new requirement will be English course B/English 6. For applicants who completed their upper secondary education January 1st, 2010 or later, there is an additional entry requirement for mathematics. These applicants must have successfully completed courses in Mathematics to reach the level of the Swedish course Mathematics A (approximately 10 years of Mathematics studies).

SPECIFIC ENTRY REQUIREMENTS
The following course levels from Swedish Upper Secondary School (Gymnasium) or equivalent: Chemistry course A, Mathematics course C, or Chemistry course 1, Mathematics course 3b/3c.

Description of programme

The Ecotechnology Programme is a three-year education leading to a Bachelor's degree in Environmental Science. The programme provides relevant knowledge about the use of natural resources in an international sustainability perspective. The programme integrates environmental issues with entrepreneurship and other skills to provide relevant knowledge for working in the world's fastest growing sector – Ecotechnology and green business.

Selection rules and procedures

The selectionprocess is in accordance with the Higher Education Ordinance and the local order of admission.

Programme with restricted admissions

Specific prerequisites for the courses within the programme are specified in the syllabus.

Teaching and examination

The education is based on full time studies including field studies, laboratory practice, project work, excursions and study visits, seminars and lectures. Part of the education is carried out in thematic projects. The student is trained to systematically solve problems of increasing complexity. Examination is carried out orally or by written exams. The educational languages are English and Swedish. There is always an option in English for non Swedish speaking students.

The examination procedures are stated in the syllabus of each course.

Title of qualification

Degree of Bachelor of Arts/Science

Filosofie kandidatexamen med huvudområdet miljövetenskap translated into Degree of Bachelor of Science with a major in Environmental Science.

Other information

During the programme course names, contents, credit units and schedules may change.