



Elective programme elements 2016-2018

**Bachelor in Agricultural and Environmental
Management**

Professionsbachelor i Jordbrugsvirksomhed

Learning objectives and subject descriptions

-First semester for study programme biology and economy

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1. General

The following learning objectives and subject descriptions for the elective programme elements are a supplement to the joint national curriculum and the institutional curriculum. The elective elements' catalogue/Part III. There is not a free choice between all the subjects, the choice is made implicitly through the student's choice of study line/speciality on the programme.

1.1 Subjects/learning objectives for biology (Study line/speciality: Environmental and Nature Management)

1.1.1 Ecology	
Timing	1st semester
Scope	56 lessons / 5 ECTS (approximately 110 study hours)
Examination	The subject is examined according to the institutional part of the curriculum
Content	Definition of ecology, evolution, physical conditions and resources, life cycles, distribution and migration, competition, predation and disease, mutualism, populations and communities, species' richness, energy and matter, sustainability and habitat degradation, conservation of species and habitats.
Portfolio	One to several smaller tasks during the course.
Curriculum list	Essentials of Ecology, Michael Begon, Robert W. Howarth & Colin R. Townsend Wiley, 4th edition, 2014. (ISBN: 9780470909133)
Learning objectives	<p>Knowledge and understanding The student will gain knowledge about:</p> <ul style="list-style-type: none"> • populations, communities and ecosystems • and understand the theory regarding the physical and biological regulation of ecosystems, energy flows and nutrient cycles as well as species' richness and habitat degradation • and understand the practical and applied theory and method as well as reflect on the application of theory and method within ecology. <p>Skills The student will get the skills to:</p> <ul style="list-style-type: none"> • be able to apply knowledge about the species and communities' conservation status • analyse problems and apply relevant management tools in the planning and administration of the environment • assess and analyse the consequences of nutrient cycles and energy flows in relation to the environment and nature. <p>Competencies The student will learn to:</p> <ul style="list-style-type: none"> • develop, individually and together with others, practical and theoretically well-founded solution models for the utilisation of biological resources

	<ul style="list-style-type: none">• independently engage in academic and interdisciplinary collaboration and assume responsibility within the framework of a professional ethics• independently and developmentally carry out analyses of the environmental consequences of land use and production and provide qualified solutions• identify their own learning needs and develop their own knowledge, skills and competencies in relation to ecology.
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