

Specialiseringsutbildning inom bioekonomi 30 sp

Beskrivning av kurser som erbjuds vid Yrkeshögskolan Novia, Campus Raseborg

Natural Resource Economics, 5 sp

The student:

- has a deep understanding of the importance of natural resources for human welfare as well as why sustainable use of natural resources is necessary for economic growth and welfare
- understands the role of market mechanisms in resource allocation and how market failures affects environmental quality and human welfare
- can apply, within his/her own field, economic reasoning in analysis of environmental problems as well as efficient resource allocation and how these problems can be solved by implementation market-based and administrative instruments
- is familiar with methods evaluating social net benefits of environmental protection as well as cost efficiency and what sorts of methods are used for economic valuation of environmental benefits
- understands importance of EU:s and national policies and strategies to promote efficient resource allocation and sustainable development

Contents:

- The effects of sustainable use of natural resources for economic growth and welfare
- Market mechanisms in resource allocation
- How do market failures effect on human welfare
- Economic aspects in analysis of environmental problems
- Methods for evaluating social net benefits of environmental protection
- Methods for economic valuation of environmental benefits
- EU:s and national policies and strategies for promoting efficient recourse allocation and sustainable development

Methods:

- Lectures. Literature seminars. Projects with virtual presentations.

Bioeconomy Innovation, 3 sp + 3 sp

The Student:

- Knows the principles for developing sustainable innovation in a responsible manner
- Understands the concept of Bioeconomy and how it relates to the forestry, agriculture and other Bioeconomy sectors
- Is knowledgeable of working with innovation in a sustainable manner
- Is familiar with the main companies in Finland working with Bioeconomy

Contents:

- Introduction to Bioeconomy

- Practical implements in agriculture and forestry
- Study visits to companies working with Bioeconomy innovation

3 sp bioeconomy innovation project

Methods:

- Lectures, study visits, exercises and reporting writing. Project presentation.

GIS, 3 sp

The Student:

- is able to handle geographic data in a GIS program
- knows how to capture data using the Global Navigation Satellite System (GNSS)
- can analyze geographical environmental data using different data sources and methods
- can effectively visualize geographic information for different purposes

Contents:

- Basic understanding of Geographic Information Systems (GIS)
- Practical use of GIS in bioeconomy
- Editing geographic data in ArcGIS or QGIS
- Methods for analyzing GIS data using various data sources
- Methods for visualizing geographic information for different purposes

Methods:

- Introduction in a computer classroom, exercises

Naturturism och viltbruk, 5 sp

Studerande:

- har en god kännedom i viltbrukets potential
- känner till principerna för en förvaltning av viltstammen
- har insikt i olika intressegruppers syn på viltbruk
- har en fördjupad förståelse för planering av jord- och skogsbruk med hänsyn till viltets livsmiljöer
- Har kännedom om potentialen för naturturism i den egna regionen

Innehåll om viltbruk:

- Viltbrukets potential
- Adaptiv förvaltning av viltstammen
- Hur är viltförvaltningen organiserad
- Hänsyn till viltets livsmiljöer inom jord- och skogsbruk
- Intressekonflikter kring viltstammens storlek

Kan utveckla en turismidé till lönsam naturturism med beaktande av:

- Naturens och kulturens hållbarhet
- Säsongsberoende
- Behov av guidning och uthyrning av utrustning
- Behov av övernattningar och matarrangemang

- Behov av nätverk med andra företagare
- Marknadsföringsmetoder

Innehåll:

- Casestudier kring naturbruksföretag med olika inriktning
- Projektarbete med att utveckla en företagside för ett naturbruksföretag
- En affärsplan görs upp och presenteras

Arbetsformer:

Flerformsstudier. Föreläsningar kvällstid i Ekenäs. Självtudier med inlämningsuppgifter. Exkursioner. Affärsplan görs upp och presenteras

Cirkulär Ekonomi, 3 + 2 sp

Studerande:

- känner till begreppen i vägkartan för Finlands cirkulära ekonomi (Sitra)
- förstår bioekonomins cirkulära system inom lant- och skogsbruk
- kan beskriva cirkulära system och förutsättningarna för en cirkulär ekonomi
- känner till och kan beskriva olika framtids-scenarier för cirkulär ekonomi

2 sp projekt

- beskrivning av en vägkarta till cirkulär ekonomi i ett företag, på en gård, för en skogsfastighet eller för ett företag inom förädlingen av råvarorna.

Innehåll:

- Introduktion till cirkulär ekonomi
- Hållbar matproduktion
- Skogsråvarans förädlingsprocesser med utökade möjligheter till nya produkter från cellulosa, hemicellulosa, lignin och övriga ämnen från trä.

Undervisningsformer:

- Introduktion i form av närstudier. Litteraturstudier med rapportering. Projektarbeten med presentationer.

Sustainable Coastal Management, 6 sp

The Student:

- knows the concept of Integrated Coastal Zone Management
- has basic knowledge of challenges in cross sectorial management of coastal areas
- can identify stakeholders and how to involve them in the management process
- understands how Maritime Spatial Planning can be used in sustainable coastal management
- is familiar with relevant policies and legislation

Contents:

- Management process of coastal communities and ecosystems
- Relevant legislation
- Possibilities and challenges of cross sectorial management and international cooperation

- Identification of different stakeholders and their influence on the management process

Methods:

- Lectures, project work, literature seminars, guest speakers

Participatory Processes and Conflict Management, 5 sp

The student:

- has skills to plan, manage and realize participation in processes
- understands how conflicts begin and is able to discuss values and attitudes with different groups of people
- is able to handle conflicts which arise in natural resource management in a professional and constructive manner

Contents:

- Introduction to participation in processes
- Different types of conflicts
- Values and attitudes in conflicts
- Constructive and professional methods for handling conflicts connected to resource management

Methods:

- Lectures, case-studies, literature seminars

International Agriculture, 3 sp

The Student:

- Is familiar with development models in agriculture like Agroforestry and model farms
- Is aware of the challenges of sustainability in a global perspective related to agriculture and climate change
- Is familiar with international Agribusiness and food production and trade
- Is knowledgeable in international agreements and trade barriers and their effect on agriculture

Contents:

- Agroforestry and model farms
- Sustainability in a global perspective
- International Agribusiness, food production and trade
- International agreements and trade barriers

Methods:

- Lectures, exercises and reporting writing

International Forestry, 3 sp

The Student:

- Can describe the circumstances for forestry in different countries
- Can describe the principles of plantation forestry
- Is aware of different forms of forest ownership
- Is aware of the challenges of sustainability in a global perspective related to forestry

- Is familiar with international wood trade and raw material flows

Contents:

- Introduction to international forestry with starting point in Finland
- International forest agreements
- International forest trade
- Silvicultural methods
- Plantation forestry
- Forest ownership

Methods:

- Lectures, exercises and reporting writing