SWEDISH UNIVERSITY OF AGRICULTURAL SCIENCES

Department of Forest ecology and Management

Syllabus

Sustainable Forestry and Land-use Management in the Tropics
Hållbar skogsskötsel och markanvändning i tropikerna

15.0 Credits

Code: SV0056

Finalized by: Ordföranden för programnämnden för utbildning inom skog (PN-S), 2023-12-22

Valid from: Autumn semester 2024 (2024-09-02)

Level within study regulation: Second cycle

Grading scale: TH Four-grade scale, digits

Main field of study with advanced study: SBV Forestry Science - A1F Second cycle, has second-cycle course/s as entry requirements
BIA Biology - A1F Second cycle, has second-cycle course/s as entry requirements

Language

English

Biology specialisation

Ecology

Forestry science sub-area

Objectives, planning and policy 6,5 credits, Natural Processes, 5 credits, Work processes, 3,5 credits

Entry requirements

Knowledge equivalent to 120 credits at basic level and

15 credits at advanced level in one of the following subjects/fields of study:

- Forestry science
- Forest science
- Forest management
- Agricultural science

The 15 credits in in biology with specialization in ecology

English 6

Content

Content
The course deals with the conditions in nature and society for the development and use of forests in subtropical and tropical regions and provides an overall understanding of how variations in system ecology, community structure and forestry practices differ from northern systems. The course also deals with important silvicultural methods and way of working and use of land with trees and forests, as well as current issues that will be the main drivers for the development of land use and forestry practices in subtropical and tropical regions in the future.

Implementation
The course utilizes different teaching methods to promote student learning and discussion through lectures, assignments, literature studies and discussions. The students get to apply their knowledge to real-life case studies. The course also provides the opportunity for individual in depth studies within a specific area based on the student's own interests, and to take part in a study trip to one of our tropical research areas.

The course focuses on the following generic competencies:

- Critical thinking
- Digital competence
- Oral and written communication
- Team work
- Ability to work independently
- Creativity
- Plan and manage time

The following sections are mandatory

Participation during the course call (the first day), seminars, and oral exercises and presentations.

Cooperation with the surrounding society takes place through course assignments and lectures with international guests from various organizations.

Objectives

The course prepares students for tasks and challenges when working with sustainable management in tropical and sub-tropical regions.

Upon successful completion of the course, students will be able to:

- Describe and analyze how biophysical (e.g., ecology, soils, climate), social, policy, and economic conditions interact and drive the choice of current and future forest and land-use management decisions
- Evaluate the potential benefits and weaknesses of prevalent management systems (natural forest, plantation forestry, agroforestry, and restoration) within the local context (eg economy, livelihoods, ecosystem services, etc.)
- Synthesize the importance of tropical forests in a global context and the global policy agenda

- Assess and interpret how local, context-specific demands, dynamics, values, and complexities affect forest management, land use, and methods applied
- Review, analyze, evaluate, and communicate current forestry issues and research in tropical and subtropical areas.
- In a given context, identify knowledge gaps and propose new solutions.

Examination formats

- Approved written assignments
- Completed mandatory elements