Linnæus University

Dnr: 2022/3051-3.1.2.2

Course syllabus

Faculty of Technology

Department of Forestry and Wood Technology

1TS161 Internationellt Hållbart familjeskogsbruk I, 7,5 högskolepoäng

1TS161 International Sustainable Small-scale Forestry I, 7.5 credits

Main field of study
Forest and Wood Engineering

Subject Group
Forest Science

Level of classification
First Level

Progression
G1N

Date of Ratification
Approved by Faculty of Technology 2022-08-30
The course syllabus is valid from spring semester 2023

Prerequisites
General entry requirements for university studies.

Objectives

After approved course the student should know how to:

Identify/Determine

- domestic tree species
- plants and plant communities according to forest types
- the rock (bedrock), soil deposit and soil
- the forest type from soil moisture and richness
- pros and cons of some common forest operation systems
- adequate competence areas for a forest owner

Describe

- the geological properties of a site
- distribution of phytogeographical regions in own country or assigned
- forest owner demographical data and change over time

Account for

- the concept of sustainability in forest(ry) and other contexts
- the processes of photosynthesis, respiration and withering
- the terms of a forest management plan

Conduct

- a site index assessment
- volume assessment of a stand and a tree and calculate the corresponding monetary values

Suggest

- from the goals of the owner, legislation and site properties suitable silvicultural measures during a rotation

Content

The course consists of three parts:

- Forest ecology (geological conditions, forest vegetation, photosynthesis, site classification, sustainability)
- Forest mensuration (measurements in forests, site classification according to height,
- Silviculture and forest operations (forest owners goal and predispositions and measures during a rotation)

Type of Instruction

The course is conducted in a blended learning way combining excursions in the forest/study visits, in-door education, and web-based combinations there-of. We use an Internet-based learning platform for distribution of tasks, study materiel and assignments.

Examination

The course is assessed with the grades U, 3, 4 or 5.

Evaluation of student achievements are conducted over the length of the course and through a concluding examination. Assignments/tasks, field examinations and final examination constitute the formative examinations.For approval the expected learning outcomes shall be reached. The grade is weighted according the the number of credits per examination task.

- Forest Ecology assignment, 2 hp (U, 3, 4, 5)
- Examination ecology 0,5 hp (U, 3, 4, 5)
- Forest mensuration assignment, 2 hp (U, 3, 4, 5)
- Examination mensuration 0,5 hp (U, 3, 4, 5)
- Silviculture and forest operations assignment, 2 hp (U, 3, 4, 5)
- Final examination 0,5 hp (U, 3, 4, 5)

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University.
If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

Course Evaluation

During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

Credit Overlap

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course: 1TS152/1TS153, 7.5 credits, 1TS151, 7.5 credits and 1TS141, 7.5 credits

Required Reading and Additional Study Material

Mandatory literature to be checked with course responsible

Anon, Skogsstatistisk årsbok, latest edition, 2015 online. 337 pages.
or
other National statistics on forestry

Anon, Skogsvårdslagen, Handbok, latest edition, printed or online. 76 pages.
or
other National publication on Forest legislation

Andersson, Royne (red). 2013. Grundbok för skogsbrukare, Skogsstyrelsen, latest edition. 200 pages. ISBN 978-91-87535-02-4
or
other similar book(s) on silviculture

Andersson, Royne. 2017. Skoglig produktionsekologi: ståndortsanpassning i skogsbruket. Skogsstyrelsen Jönköping: Stibo graphic. 232 pages. ISBN 978-91-87535-11-6. Kap 1, 2, 6, 7, 8, 11, 12.
or
other similar book(s) on forest ecology

Jensen Anna, Malmqvist Cecilia. 2019. Att mäta skog. Studentlitteratur. ISBN: 9789144129075. 169 pages.
or
other book(s) on forest mensuration

Mossberg Bo, Stenberg Lennart. 2018. Svensk fältflora. Bonnier Fakta. ISBN: 9789174249514. 316 pages.
or
other Domestic Flora

Carl Henrik Palmér (red). Skogsägarens mål. En väg till ökad variation i skogen. ISBN tryck 978-91-86573-93-5 digital 978-91-86573-94-2.
or
other publication on forest owner goals

Skogsskötselserien, www.skogsstyrelsen.se
or
other similiar web-based forest literature

Skogsmarksflora. 2021. Skogsstyrelsen. ISBN 9789198629712. 189 pages.
or
other similar book(s) on forest ecology/site classification

Bonitering av skogsmark - anvisningar, diagram och tabeller. 2021. Skogsstyrelsen. ISBN 978-91-986297-2-9. 112 pages.
or
other similar book(s) on forest ecology/site classification

Compendia, films, excursion handouts and materiel provided during the course