



FOREST SCIENCES OPS 2023-24

Info event for students 24.1.2023



OPS 2023-26

The new OPS/curriculum starts in August 2023

You can transfer to complete your studies according to the new structure by choosing the 2023-24 template in Sisu. In the FEBS study track you also need to fill an e-form.

You can also decide to continue in the old structure until 31.7.2026.

There are some new courses in the OPS 2023-26, and some old courses will not be arranged anymore (see the replacing courses excel).

Forest economics and marketing/Forest bioeconomy, business and policy study track will have a new name: Metsäekonomia, liiketalous ja yhteiskunta/Forest economics, business and society.

The new BSc and MSc degree structures (pdf) and the table of replacing courses can be found in the Student's instructions (Opiskelijan ohjeet) in the web:

https://studies.helsinki.fi/ohjeet/node/323?degree_programme_code=KH80_002#paragraph-1157

https://studies.helsinki.fi/ohjeet/node/323?degree_programme_code=MH80_003#paragraph-1188



CHANGES IN THE BSC DEGREE

New courses in both study tracks:

ME-024 Suomen metsät: historia ja metsäsuhde (1-2. vuosi)

SUST-001 Kestävyysskurssi (2-3. vuosi)

New module for those choosing Forest resource management -specialization:

ME-309 Metsävarojen hallinnan ja käytön menetelmät 15 op



CHANGES IN THE MSc DEGREE

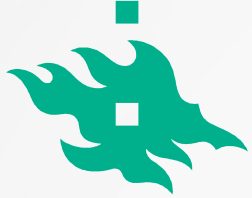
New course in both study tracks: FOR-018 Introduction to MSc programme in Forest Sciences 3 cr

You don't have complete FOR-018 course if you transfer to the new structure and have completed at least 25 cr of master's degree studies by 31.7.2023.

Changes in the Forest economics, business and society study track:

New compulsory course: FOR-113 Forest business economics 5 cr (compulsory also to those who will transfer to the new OPS)

Second foreign language 3 cr: The level of the language is free, it does not have to be level B1 anymore



FEBS SYVENTÄVÄT OPINNOT

• **ADVANCED STUDIES: FOREST ECONOMICS, BUSINESS AND SOCIETY -STUDY TRACK, 73 cr**

- KK-ENG516/KK-ENG501 Academic writing (Language Center)
KK-ESP/KK-ITA/KK-KII/KK-RAN/KK-SAK/KK-VEN/Finnish/Swedish
Language studies, according to PSP (Language Center)
FOR-018 Introduction to MSc programme in forest sciences (Albert Porcar-Castell)
FOR-002 Career portfolio and internship or a special project (Petri Parvinen, Juha Rikala)
FOR-003 Master's thesis seminar (Petri Parvinen)
FOR-004 Master's thesis (Kari Minkkinen)
FOR-101 Responsible business management in
circular and bioeconomy (Angelina Korsunova-Tsaruk)
FOR-103 Quantitative methods and data (Sami Berghäll)
FOR-104 International forest policy, politics and power (Maria Brockhaus)
FOR-113 Forest business economics (Mika Rekola)
FOR-108 Qualitative empirical research methods, approaches and research ethics (Maria Brockhaus)
VIKIM-001 Master's maturity test



FEBS SYVENTÄVÄT OPINNOT

- **ELECTIVE ADVANCED STUDIES**
FOREST ECONOMIS, BUSINESS AND SOCIETY STUDY TRACK, CHOOSE 15 cr
Business studies:
FOR-105 Sales management and business models (Petri Parvinen)
FOR-106 Yrityksen strategia ja yrityspeli (Mika Rekola, Juuso Töyli)
EKM-127 Sustainable Entrepreneurship
AGERE-A10 Sustainable Financing
AGERE-A05 Production and cost theory
- *Policy and responsibility studies:*
YET-214 Climate and energy
FOR-111 Behavioural change and sustainability (Annukka Vainio)
AGFO-310/DENVI-115 Introduction to comparative policy research design (Maria Brockhaus)



CHANGES IN THE MSc DEGREE – MEK (FOREST ECOLOGY AND MANAGEMENT)

Changes in the contents of the specialization modules

A new module: FOR-314 Tropical forestry, agroforestry and land use

Altogether 7 modules:

1. Ecosystem function and biogeochemistry
2. Production ecology, silviculture and land use management
3. Biodiversity, evolution and interactions in forests
4. Tropical forestry, agroforestry and land use
5. Forest resource management and geoinformatics
6. Forest operations and wood supply management
7. Wood material science



MEK MODULE 1

FOR-309 Ecosystem function and biogeochemistry/Metsäekosysteemien toiminta ja biogeokemia 25 cr

Choose at least 25 cr of following

FOR-211 Tree ecophysiology (Albert Porcar Castell)

FOR-217 Forests and peatlands as modifiers of atmospheric composition (Jaana Bäck)

FOR-218 Basics of biometeorology (Teemu Hölttä)

FOR-223 Ecology of peatlands (Kari Minkkinen)

FOR-227 Methods to study forest soils/Basic methods in terrestrial biogeochemistry (Kristiina Karhu) (prerequisite for FOR-275 ja FOR-230 courses)

FOR-228 Forest ecosystem biogeochemistry (Jussi Heinonsalo)

FOR-230 Forest soil and root ecology (Jussi Heinonsalo)

FOR-275 Soils and Climate Change (Kristiina Karhu)

FOR-284 Methods in ecophysiology (Albert Porcar-Castell)

AGRI-414 Pedogenesis and Soil Classification



MEK MODULE 2

FOR-310 Production ecology, silviculture and land use management/Tuotosekologia, metsänhoito ja maankäytön suunnittelu 25 cr

Compulsory courses 10 cr

FOR-212 Forest production, growth and yield

FOR-221 Advanced silviculture

Choose at least 15 cr of following

FOR-214 Simulation of forest growth with ecological models (Marjo Palviainen)

FOR-285 Climate change mitigation and adaptation in forestry (Jaana Bäck)

FOR-219 Sustainable forest ecosystem management (Marjo Palviainen)

FOR-220 Monitavoitteisen metsänhoidon menetelmät (Marjo Palviainen)

FOR-224 Soiden luonnonvarasuunnittelun kenttäkurssi (Kari Minkkinen)

FOR-225 Turpeen käyttö Suomessa - tavoitteet ja ristiriidat (Kari Minkkinen)

FOR-226 Restoration of degraded ecosystems: theory and practice (Marjo Palviainen)



MEK MODULE 3

FOR-311 Biodiversity, evolution and interactions in forests/Metsien biodiversiteetti, evoluutio ja vuorovaikutukset 25 cr

Choose at least 25 cr of the following

FOR-233 Advanced forest mycology & pathology (Fred Asiegbu)

FOR-232 Forest microbiology (Fred Asiegbu)

FOR-231 Basic biotechnology applications in forestry (Fred Asiegbu)

FOR-238 Alien species (Petri Nummi, Eshetu Yirdaw)

FOR-272 Herbivory and trophic interactions in a changing world (Carita Lindstedt-Kareksela)

FOR-235 Multidisciplinary view on insect outbreaks and host-pathogen dynamics (Carita Lindstedt-Kareksela)

FOR-242 Riistaeläintieteen syventävä lajintuntemus (V-M Väänänen)

FOR-246 Riistaeläintieteen ajankohtaiskysymykset (Petri Nummi, V-M Väänänen)

EEB-104 Nisäkäsekologian kenttäkurssi (Janne Sundell)

FOR-243 Riistatalouden suunnittelu (V-M Väänänen)

FOR-244 Riista ja yhteiskunta (Petri Nummi)

FOR-245 Riistatarhaus (Petri Nummi, V-M Väänänen)

FOR-278 Forest tree breeding and genetic resources (Tanja Pyhäjärvi)

FOR-279 Forest tree genomics, evolution and adaptation (Tanja Pyhäjärvi)



MEK MODULE 4

FOR-314 Tropical forestry, agroforestry and land use/Trooppinen metsätalous, agrometsätalous ja maan käyttö 25 cr

Compulsory courses 10 cr

FOR-247 Methods and tools in tropical forestry (Edward Webb)

FOR-248 Field course: Tropical forests and agroforests (Edward Webb)

Choose at least 15 cr of following

FOR-276 Sustainable forestry and agroforestry in the tropics (Edward Webb)

FOR-281 Tropical landscape change (Edward Webb)

FOR-282 Tropical forest landscape restoration (Eshetu Yirdaw)

FOR-104 International forest policy, politics and power (Maria Brockhaus)

FOR-108 Qualitative empirical research methods, approaches and research ethic (Maria Brockhaus)

GEOG-341 Geography of megatrends, environmental change and development in the Global South

IPS-174 Tropical flora of East Africa /AGRI-247 Tropical plants of economic importance



MEK MODULE 5

FOR-208 Forest Resource Management and Geoinformatics/Metsävarojen hallinta ja geoinformatiikka 25 cr

Choose at least 25 cr of following

FOR-254 Metsävarojen inventointi- ja suunnitteluprojekti (Ilkka Korpela) (Can be completed in English)

FOR-255 Metsien kehityksen simulointi (Markus Holopainen) (odd years)

FOR-256 Metsävarojen hallinnan ja geoinformatiikan vaihtuvaisältöiset erikoistumisopinnot (Markus Holopainen)

FOR-258 GIS-analyysi ja mallinnus (Markus Holopainen)

FOR-260 Advanced 3D remote sensing of forests (Markus Holopainen)

FOR-263 Operations research in forest resource management (V-P Kivinen)

FOR-283 Open GIS (Markus Holopainen)

Recommended courses in Forest resource management and geoinformatics:

FOR-007 Tilastollisia malleja: Yleistettyjen lineaaristen mallien perusteet (Teppo Mattsson) 5 cr

FOR-008 Tilastollinen ennustaminen ja otanta (Teppo Mattsson) 5 cr

FOR-009 Statistical modelling with R (Teppo Mattsson) 5 cr



MEK MODULES 6 AND 7

FOR-209 Forest operations and wood supply management /Metsäteknologia ja logistiikka 25 cr

Compulsory courses 20 cr

FOR-261 Environmental effects of forest operations (Jori Uusitalo)

FOR-280 Precision harvesting (Jori Uusitalo)

FOR-265 Terramechanics and trafficability prediction (Jori Uusitalo)

FOR-266 Wood supply chain management (Jori Uusitalo)

Choose one of the following

FOR-263 Operations research in forest resource management(V-P Kivinen)

AGRI-104 Measurement technology

FOR-210 Wood material science/ Puumateriaalitiede 25 cr

Compulsory courses 20 cr

FOR-267 Wood science (Juha Rikala)

FOR-268 Metsäteollisuuden laboratoriotyöt (Juha Rikala)

FOR-269 Puu rakennus- ja huonekalumateriaalina (Juha Rikala)

FOR-270 Wood as fibre raw material (Juha Rikala)

Choose at least 5 cr of following

FOR-101 Responsible business management in circular and bioeconomy (Angelina Korsunova-Tsaruk)

FOR-106 Yrityksen strategia ja yrityspeli (Mika Rekola, Juuso Töyli)

AGERE-A10 Sustainable financing



WHAT NOW: DO I TRANSFER TO THE NEW OPS?

- **BSc student:**

Under 60 cr completed or 1. year going on - > recommended to transfer

If you transfer

- MEK-students do not need to inform about, choose the new hops/psp template in Sisu in August 2023.
- MEM-students (2-n.year) inform with e-form (available later) and choose the new hops/psp template in Sisu in August 2023.

- **MSc student:**

It's up to you if you want to transfer and it depends on the modules

- FEBS student, notice the new language requirements

If you transfer

- MEK-students do not need to inform about, choose the new hops/psp template in Sisu in August 2023.
- MEM-students (2-n.year) inform with e-form (available later) and choose the new hops/psp template in Sisu in August 2023.