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AGRI degree structure 2023-2026 and a 2-years' model study schedule 2023-2024 and 2024-2025

updated 30.5.2023 (Changes possible. Please check the latest information in SisU)

MSc Programme in Agricultural Sciences (AGRI), 120 cr

AGRI degree structure and a two-years' model teaching programme for the students, who start in the autumn 2023 (in an odd year)

Plant Production Sciences study track, 120 cr

AGRI-200 Advanced studies in Plant Production Sciences, 90 cr

Joint studies in the AGRI-programme

AGRI-001 Personal Study Plan (PSP)	0 cr	1/I
AGRI-002 Research Design and Analysis	5 cr	1/III-IV
AGRI-003 Scientific Writing and Seminars, 5 cr		
- AGRI-003A Scientific Writing	4 cr	2/II-III
- AGRI-003B MSc Seminars	1 cr	1-2/any periods
AGRI-004 Literature	5 cr	2/any periods
AGRI-005 Master's Thesis	30 cr	2/any periods
VIIKM-001 Master's Maturity Test	0 cr	2/IV

Joint studies in the Plant Production Sciences study track

IPS-002 Plants in Changing World	5 cr	1/I
IPS-113 Advanced Plant Physiology	5 cr	1 or 2/I
Optional, choose 5 cr		
An optional course according to PSP	5 cr	

Alternative modules in the Plant Production Sciences study track

According to your PSP, choose 2 x 15 cr modules or 1 x 30 cr module :

Agroecology modules, 1x30 cr:

AGRI-225 Agroecology	30 cr	
AGRI-211 Wildlife in the Farming Environment	5 cr	1 or 2/I
AGRI-212 Ecological Farming Methods	5 cr	1/II
AGRI-221 Agroecology: Working with the Complexity of Farming Systems (web course)	5 cr	1/III
AGRI-222 Sustainable Food Systems	5 cr	1 or 2/II
ECGS-001 Introduction to Sustainability Science 5 cr	5 cr	1 or 2/I
Alternative, choose 5 cr		
ECGS-081 Analytical approaches to human environmental interaction, 5 cr	5 cr	1/IV
or an other ECGS course according to PSP	5 cr	

Plant Breeding modules, 3x15 cr:

AGRI-230 Plant Breeding	15 cr	
AGRI-232 Crop Breeding and Genetic Resources	5 cr	1 or 2/I
FOR-278 Forest Tree Breeding and Genetic Resources	5 cr	1 or 2/III
Alternative, choose 5 cr		
IPS-125 Plant Genetics and Environmental Responses	5 cr	1/IV
AGRI-285 Translational Plant Biology	5 cr	1/III
AGRI-236 Plant Biotechnology and Molecular Biology	15 cr	
IPS-121 Plant Biochemistry	5 cr	1 or 2/II
IPS-122 Plant Biotechnology and Molecular Biology	5 cr	1/II
IPS-123 Laboratory Course in Plant Biotechnology	5 cr	1/III-IV

X = can be completed at any time, no fixed periods and in some cases no fixed years

() = can be completed either in the first or second year of MSc studies

A tentative two-years model teaching programme for 2023-2024 + 2024-2025*									
2023 - 2024					2024 - 2025*				
First year					Second year (*a tentative model)				
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		2,5	2,5						
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AGRI-311 Animal Data Analysis
AGRI-312 BLUP and Variance Components
AGRI-313 Selection Theory

AGRI-240 Crop Science

AGRI-241 Field Crop Quality
AGRI-242 Field Crop Quality Laboratory Course
AGRI-243 Herbicides and Weed Management
AGRI-248 Cropping Systems Ecology (new course, first time 2025-2026)
AGRI-249 Crop Ecological Physiology
AGRI-245 Crop Science and Horticulture Practicals

AGRI-250 Plant Pathology

AGRI-251 Fungal Plant Pathogens
AGRI-252 Plant Pathogenic Bacteria
AGRI-253 Plant Virology

AGRI-261 Epidemiology and Ecology of Plant Pathogens
AGRI-262 Advanced Training in a Plant Pathology Research Group
AGRI-263 Plant-Microbe Interactions

AGRI-270 Agricultural Entomology

AGRI-271 Biological Control
AGRI-272 Integrated Plant Protection
AGRI-273 Extended Insect Identification

AGRI-280 Horticulture

AGRI-281 Postharvest Physiology and Technology
AGRI-282 Greenhouse Production and Management
AGRI-283 Berry and Fruit Crop Physiology
AGRI-245 Crop Science and Horticulture Practicals
IPS-122 Plant Biotechnology and Molecular Biology

Alternative, choose 5 cr

IPS-123 Laboratory Course in Plant Biotechnology
AGRI-285 Translational Plant Biology

AGRI-291 Viheralueiden kasvit

Alternative, choose 10 cr
AGRI-292 Taajamien viheralueet
AGRI-293 Kaupunkibiotoopit
AGRI-294 Horticulture for Well-being and Green Care
AGRI-296 Kaupunkivijely

Modules from your own MSc programme or from other MSc programmes. Please note that you don't have to take any **optional study modules** in your Master's Degree, if you don't want, but instead, you can take individual **optional study units** in the Other studies section in order to get 120 credits in your Master's Degree.

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Methodological studies according to the PSP (examples)

FOR-007 Tilastollisia malleja: Yleistettyjen lineaaristen mallien perusteet

MAAT-028 Tieteellinen kirjoittaminen

ETK-501 Kemian työt

MOLE-212 Molekyylibiotieteiden harjoitustyöt, 5 cr

- MOLE-212B Biokemia

- MOLE-212D Mikrobiologia

MOLE-213 Geenitekniikka, 7 cr

- MOLE-213A Geenitekniikan luennot

- MOLE-213C Geenitekniikan harjoitustyöt

FYS2034 Klimatologian perusteet

Programming courses according to PSP

Bioinformatics courses according to PSP

Computer Science courses ad

GIS courses according to PSP

Other methodological courses according to PSP

AGRI-017 Advanced Training in a Research Group

AGRI-018 Practical Training

AGRI-019 Supervision of Younger Students in Agricultural Sciences

AGRI-020 Study Group in Agricultural Sciences

AGRI-021 Project work

AGRI-295 Puutarhatieteen projektityö

AGRI-007 Other studies

VIKM-002 Tutoring

VIKKM-005 Demanding participation in administrative bodies and student organisations

Optional study units from student's own programme or from other programmes (examples):

ME-242 Agriculture, Agroforestry and Forestry in the Tropics

AGRI-247 Tropical Plants of Economic Importance (web course)

AGRI-247 Tropical Plants of Economic Importance (web course+contact sessions)

AGRI-202 Extended Plant Identification

IPS-121 Plant Biochemistry

IPS-111 Plant Developmental Biology

VIKM-003 Orientation Week

MAAT-009 Maaseudun kehittäminen

SUST-001 Sustainability course (web course)

PED590 Towards better well-being and studying (web course)

FAF-101A Biodiversity.now (MOOC)

FAF-101B Biodiversity.now (Project work)

5 cr	1/III
3 cr	1/I-II
5 cr	1/IV
2 cr	1/III
3 cr	1/III
2 cr	1/III
5 cr	1/IV
2 cr	1/III
5-10 cr	1 or 2/any periods
5-10 cr	1 or 2/any periods
1-5 cr	1 or 2/any periods
1-3 cr	1 or 2/any periods
5 cr	1/III-IV
5-15 cr	1 or 2/any periods
1-15 cr	1 or 2/any periods
5 cr	1/IV and 2/orientation week
2-5 cr	1 or 2/any periods

5 cr	1 or 2/I	odd?
3 cr	1 or 2/any periods	
5 cr	1 or 2/I-II	
2-5 cr	1 or 2/any periods	
5 cr	1 or 2/II	odd
5 cr	1 or 2/II	even
1 cr	1/I	
5 cr	1 or 2/III	
3 cr	1 or 2 / II or IV	
3 cr	1/II or III	
2 cr	1 or 2/any periods	
3 cr	1 or 2/any periods	

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updated 1.3.2023 (Changes possible. Please check the latest information in Sisu)

MSc Programme in Agricultural Sciences (AGRI), 120 cr

AGRI degree structure and a two-years' model teaching programme for the students, who start in the autumn 2023 (in an odd year)

Animal Science study track, 120 cr

AGRI-300 Advanced studies in Animal Science, 90 cr

Joint studies in the AGRI-programme

AGRI-001 Personal Study Plan (PSP)	0 cr	1/I
AGRI-002 Research Design and Analysis	5 cr	1/III-IV
AGRI-003 Scientific Writing and Seminars, 5 cr		
- AGRI-003A Scientific Writing	4 cr	2/II-III
- AGRI-003B MSc Seminars	1 cr	1-2/any periods
AGRI-004 Literature	5 cr	2/any periods
AGRI-005 Master's Thesis	30 cr	2/any periods
VIIKM-001 Master's Maturity Test	0 cr	2/IV

Joint studies in the Animal Science study track

AGRI-301 Animal Genomics and Nutrition	5 cr	1/III
AGRI-303 Farm Animal Behaviour and Welfare	5 cr	1 or 2/I
<i>Optional, choose 5 cr</i>		
An optional course according to PSP	5 cr	

Alternative modules in the Animal Science study track

According to your PSP, choose 2 x 15 cr modules (**please see additional information below***):

Animal Breeding modules, 15 cr:

AGRI-310 Animal Breeding Theory

AGRI-311 Animal Data Analysis	5 cr	1 or 2/I	odd
AGRI-312 BLUP and Variance Components	5 cr	1 or 2/II	odd
AGRI-313 Selection Theory	5 cr	1 or 2/III	even

Animal Nutrition modules, 2x15 cr:

AGRI-330 Animal Physiology

AGRI-331 Ruminant Nutrition Physiology	5 cr	1 or 2/II	odd
AGRI-332 Production Physiology of Farm Animals	5 cr	1 or 2/III	odd
AGRI-333 Farm Animal Endocrinology	5 cr	1 or 2/I	even

AGRI-340 Feed Science

AGRI-341 Feed Evaluation and Diet Formulation	5 cr	1 or 2/I-II	even
AGRI-342 Feed Science and Technology	5 cr	1 or 2/III	even
AGRI-343 Modelling and Data Analysis in Animal Nutrition	5 cr	1 or 2/IV	even

Animal Welfare and Health module, 15 cr:

AGRI-350 Animal Welfare and Health

AGRI-351 Animal Health in Production Animals and Disease Prevention	5 cr	1 or 2/II	odd
AGRI-352 Welfare of Domestic Species	5 cr	1 or 2/III	even
AGRI-353 Societal Aspects of Animal Welfare	5 cr	1 or 2/IV	even

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updated 1.3.2023 (Changes possible. Please check the latest information in Sisu)

MSc Programme in Agricultural Sciences (AGRI), 120 cr

AGRI degree structure and a two-years' model teaching programme for the students, who start in the autumn 2023 (in an odd year)

Environmental Soil Science study track, 120 cr

AGRI-400 Advanced studies in Environmental Soil Science, 90 cr

Joint studies in the AGRI-programme

AGRI-001 Personal Study Plan (PSP)

AGRI-002 Research Design and Analysis

AGRI-003 Scientific Writing and Seminars, 5 cr

- AGRI-003A Scientific Writing

- AGRI-003B MSc Seminars

AGRI-004 Literature

AGRI-005 Master's Thesis

VIKM-001 Master's Maturity Test

Joint studies in the Environmental Soil Science study track

Study units agreed in the PSP

Compulsory module in the Environmental Soil Science study track

Choose 1 x 30 cr module:

Environmental Soil Science module, 1x30 cr:

AGRI-410 Environmental Soil Science

AGRI-411 Soil Hydrology

AGRI-412 Environmental Soil Science Readings II

AGRI-413 Advanced Soil Science

AGRI-414 Pedogenesis and Soil Classification

AGRI-415 Soil Science Laboratory III

Optional modules, 0-30 cr (examples)

Modules from your own MSc programme or from other MSc programmes. Please note that you don't have to take any **optional study modules** in your Master's Degree, if you don't want, but instead, you can take individual **optional study units** in the Other studies section in order to get 120 credits in your Master's Degree.

AGRI-610 Agriculture and Environment (*see the course list below)

ECGS-700 Food and Sustainability (*see the course list below)

AGRI-620 Global South (*see the course list below)

VIIKM-200 Study Module Accomplished at Another University

VIKM-201 Study Module Completed in a Foreign University

or any other optional module from AGRI or from other MSc programmes

Other studies in Master's Degree, 0-30 cr (examples)

Study units from your own MSc programme or from other MSc programmes.

Methodological studies according to the PSP (examples)

FOR-007 Tilastollisia malleja: Yleistettyjen lineaaristen mallien perusteet

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Economics :

EKM-103 Managing Innovation in Agri-Food Value Chains for Sustainability

Agroecology and Plant Production :

AGRI-221 Agroecology: Working with the Complexity of Farming Systems

AGRI-223 Literature in Agroecology of Food Systems

Food Sciences :

FOOD-401 European Food Safety

AGRI-620 Global South

Optional, choose 15-35 cr

[Study units agreed in the PSP, more information in the HUGS pages](#)

5 cr 1 or 2/IV

5 cr 1/III

5 cr 1 or 2/any periods

5 cr	1 or 2/III	even
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15-35 cr

15-35 cr

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