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

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)

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

Agrotechnology study track, 120 cr

AGRI-100 Advanced studies in Agrotechnology, 90 cr

				A tentative two-years model teaching programme for 2023-2024 + 2024-2025*										
				2023 - 2024 First year					2024 - 2025* Second year (*a tentative model)					
				I	II	III	IV	summer	I	II	III	IV	summer	Can be completed remotely
Joint studies in the AGRI-programme	**45 cr**													
AGRI-001 Personal Study Plan (PSP)	0 cr	1/I		0										X
AGRI-002 Research Design and Analysis	5 cr	1/III-IV				2,5	2,5							
AGRI-003 Scientific Writing and Seminars, 5 cr														
- AGRI-003A Scientific Writing	4 cr	2/II-III								2	2			X
- AGRI-003B MSc Seminars	1 cr	1-2/any periods		x	x	x	x		x	x	x	x		X
AGRI-004 Literature	5 cr	2/any periods							x	x	x	x		X
AGRI-005 Master's Thesis	30 cr	2/any periods						x	x	x	x	x		
VIIKM-001 Master's Maturity Test	0 cr	2/IV										0		X
Joint studies in the Agrotechnology study track	**30 cr**													
AGRI-101 Energy and Agriculture (lectures in Finnish but can be completed in English)	5 cr	1 or 2/I	even						5					
AGRI-104 Measurement Technology	5 cr	1/I		5										
AGRI-106 Smart Farming (web course)	5 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x		X
FOR-265 Terramechanics and trafficability prediction	5 cr	1 or 2/I	even						5					
ME-204 Geoinformatics 1 (web course)	5 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x		X
Alternative, choose 5 cr														
AGRI-132 Crop Production Technology, literature	5 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x		X
AGFO-311 Research Methods in Agriculture	5 cr	1 or 2/IV	even				5							
Alternative modules in the Agrotechnology study track	**15 cr**													
According to your PSP, choose 1 x 15 cr :														
AGRI-140 Environmental Technology in Agriculture	**15 cr**													
AGRI-141 Environmental Technology in Agriculture, theoretical bases	5 cr	1 or 2/II	odd		5									
AGRI-142 Environmental Technology in Agriculture, exercises	5 cr	1 or 2/II	odd		5									
AGRI-143 Environmental Technology in Agriculture, applications	5 cr	1 or 2/II			(5)					(5)				
AGRI-150 Agricultural Engineering	**15 cr**													
AGRI-151 Agricultural Automation	5 cr	1 or 2/I-II	even						2,5	2,5				
AGRI-152 Design and Simulation of Agricultural Machines	5 cr	1 or 2/II-III	odd		2,5	2,5								
AGRI-153 Agricultural Robotics	5 cr	1 or 2/I-II	even						2,5	2,5				

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.*	15-25 cr													
AGRI-610 Agriculture and Environment (*see the course list below)	15-25 cr													
ECGS-700 Food and Sustainability (*see the course list below)	15 cr													
AGRI-620 Global South (*see the course list below)	15-35 cr													
VIIKM-200 Study Module Accomplished at Another University	15-45 cr													
VIIKM-201 Study Module Completed in a Foreign University	15-25 cr													

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	5 cr	1/III				5							
MAAT-028 Tieteellinen kirjoittaminen	3 cr	1/I-II		1,5	1,5								
Advanced programming courses according to PSP													
Other methodological courses according to PSP													
Career orientation and professional skills studies (examples)													
AGRI-102 Agroteknologian sidosryhmät	5 cr	1 or 2/III	even			5							
AGRI-017 Advanced Training in a Research Group	5-10 cr	1 or 2/any periods											
AGRI-018 Practical Training	5-10 cr	1 or 2/any periods											
AGRI-019 Supervision of Younger Students in Agricultural Sciences	1-5 cr	1 or 2/any periods											
AGRI-020 Study Group in Agricultural Sciences	1-3 cr	1 or 2/any periods											
AGRI-021 Project work	5 cr	1 /III-IV				2,5	2,5						
AGRI-007 Other studies	1-15 cr	1 or 2/any periods											
VIIKM-002 Tutoring	5 cr	1/IV and 2/orientation week					5		0				
VIIKM-005 Demanding participation in administrative bodies and student organisations	2-5 cr	1 or 2/any periods											
Other optional studies (examples)													
Optional study units from student's own programme or from other programmes (examples):													
MAAT-402 Maan rakenne	5 cr	1 or 2/I		(5)					(5)				
VIIKM-003 Orientation Week	1 cr	1/I		1									
MAAT-009 Maaseudun kehittäminen	5 cr	1 or 2/III				(5)					(5)		
SUST-001 Sustainability course (web course)	3 cr	1 or 2 / II or IV			(3)		(3)			(3)		(3)	X
PED590 Towards better well-being and studying (web course)	3 cr	1/II or III			(3)	(3)							X
FAF-101A Biodiversity.now (MOOC)	2 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x	X
FAF-101B Biodiversity.now (Project work)	3 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x	
KK-ENG501, Academic Writing 1: Principles and Practice (Master's Students) (CEFR C1)	2 cr	1/I-II		1	1								
KK-ENG502, Academic Writing 2: Process and Feedback (Master's Students) (CEFR C1)	2 cr	2/I							2				
Una Europa Micro-Credential in Sustainability -online courses													X
Climate University -online courses													X
Biodiversity network -online courses													X
Sustainability Studies KESTO-network -online courses													X
Open University courses from Aalto University in Leadership and Industrial Engineering													
Courses from the MSc programme in Environmental Change and Global Sustainability													
**Course list of optional modules (examples):*													
AGRI-610 Agriculture and Environment	**15-25 cr**												
AGRI-211 Wildlife in the Farming Environment	5 cr	1 or 2/I											
AGRI-212 Ecological Farming Methods	5 cr	1 or 2/II	even										
Alternative, choose 5 cr													
AGRI-213 Literature in Farmland Ecology	5 cr	1 or 2/any periods											
AGRI-113 Environmental Technology in Crop Production, literature	5 cr	1 or 2/any periods											
Optional, choose 15 cr													
Study units agreed in the PSP	15 cr												
ECGS-700 Food and Sustainability	**15 cr**												

AGRI-222 Sustainable Food System	5 cr	1 or 2/II	odd									
EDUM504 Sustainable Culinary Culture	5 cr	1 or 2/May or II or IV	odd									
Alternative, choose 5 cr (one course below or an other relevant course according to PSP)												
Economics :												
EKM-103 Managing Innovation in Agri-Food Value Chains for Sustainability	5 cr	1 or 2/IV										
Agroecology and Plant Production :												
AGRI-221 Agroecology: Working with the Complexity of Farming Systems	5 cr	1/III										
AGRI-223 Literature in Agroecology of Food Systems	5 cr	1 or 2/any periods										
Food Sciences :												
FOOD-401 European Food Safety	5 cr	1 or 2/III	even									
AGRI-620 Global South	**15-35 cr**											
Optional, choose 15-35 cr												
Study units agreed in the PSP, more information in the HUGS pages	15-35 cr											

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

updated 3.1.2024 (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)

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

Plant Production Sciences study track, 120 cr

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

				A tentative two-years model teaching programme for 2023-2024 + 2024-2025*										
				2023 - 2024 First year					2024 - 2025* Second year (*a tentative model)					
				I	II	III	IV	summer	I	II	III	IV	summer	Can be completed remotely
Joint studies in the AGRI-programme	**45 cr**													
AGRI-001 Personal Study Plan (PSP)	0 cr	1/I		0										X
AGRI-002 Research Design and Analysis	5 cr	1/III-IV				2,5	2,5							
AGRI-003 Scientific Writing and Seminars, 5 cr														
- AGRI-003A Scientific Writing	4 cr	2/II-III								2	2			X
- AGRI-003B MSc Seminars	1 cr	1-2/any periods		x	x	x	x		x	x	x	x		X
AGRI-004 Literature	5 cr	2/any periods							x	x	x	x		X
AGRI-005 Master's Thesis	30 cr	2/any periods						x	x	x	x	x		
VIIKM-001 Master's Maturity Test	0 cr	2/IV										0		X
Joint studies in the Plant Production Sciences study track	**15 cr**													
IPS-002 Plants in Changing World	5 cr	1/I		5										
IPS-113 Advanced Plant Physiology	5 cr	1 or 2/I		(5)					(5)					
Optional, choose 5 cr														
An optional course according to PSP	5 cr													
Alternative modules in the Plant Production Sciences study track	**30 cr**													
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		(5)					(5)					
AGRI-212 Ecological Farming Methods	5 cr	1 /II			5									X
AGRI-221 Agroecology: Working with the Complexity of Farming Systems (web course)	5 cr	1/III				5								X
AGRI-222 Sustainable Food Systems	5 cr	1 or 2/II	odd		5									X
ECGS-001 Introduction to Sustainability Science 5 cr	5 cr	1 or 2/I		(5)					(5)					
Alternative, choose 5 cr														
ECGS-081 Analytical approaches to human environmental interaction, 5 cr	5 cr	1/IV					5							
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	odd	5										
FOR-278 Forest Tree Breeding and Genetic Resources	5 cr	1 or 2/III	even			5								
Alternative, choose 5 cr														
IPS-125 Plant Genetics and Environmental Responses	5 cr	1/IV					5							
AGRI-285 Translational Plant Biology	5 cr	1/III				5								
AGRI-236 Plant Biotechnology and Molecular Biology	**15 cr**													
IPS-121 Plant Biochemistry	5 cr	1 or 2/II	odd		5									
IPS-122 Plant Biotechnology and Molecular Biology	5 cr	1/II			5									
IPS-123 Laboratory Course in Plant Biotechnology	5 cr	1/III-IV				2,5	2,5							

AGRI-310 Animal Breeding Theory												
AGRI-311 Animal Data Analysis	5 cr	1 or 2/I	odd	5								
AGRI-312 BLUP and Variance Components	5 cr	1 or 2/II	odd		5							
AGRI-313 Selection Theory	5 cr	1 or 2/III	even			5						
Crop Science module, 1x30 cr:												
AGRI-240 Crop Science	**30 cr**											
AGRI-241 Field Crop Quality	5 cr	1 or 2/I	even						5			
AGRI-242 Field Crop Quality Laboratory Course	5 cr	1 or 2/II	(even)		5					5		
AGRI-243 Herbicides and Weed Management	5 cr	1 or 2/III	even			5						
AGRI-248 Cropping Systems Ecology (new course, first time 2025-2026)	5 cr	1 or 2 /II-III	odd									
AGRI-249 Crop Ecological Physiology	5 cr	1 or 2/III	odd								5	
AGRI-245 Crop Science and Horticulture Practicals	5 cr	1/III-IV				2,5	2,5					
Plant Pathology modules, 2x15 cr:												
AGRI-250 Plant Pathology	**15 cr**											
AGRI-251 Fungal Plant Pathogens	5 cr	1 or 2/I	odd	5								
AGRI-252 Plant Pathogenic Bacteria	5 cr	1 or 2/III	even			5						
AGRI-253 Plant Virology	5 cr	1 or 2/III	odd								5	
AGRI-260 Epidemiology and Control of Plant Diseases	**15 cr**											
AGRI-261 Epidemiology and Ecology of Plant Pathogens	5 cr	1 or 2/I	even						5			
AGRI-262 Advanced Training in a Plant Pathology Research Group	5 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x
AGRI-263 Plant-Microbe Interactions	5 cr	1/II			5							
Agricultural Entomology module, 1x15 cr:												
AGRI-270 Agricultural Entomology	**15 cr**											
AGRI-271 Biological Control	5 cr	1 or 2/IV	odd								5	
AGRI-272 Integrated Plant Protection	5 cr	1 or 2/II	even							5		
AGRI-273 Extended Insect Identification	5 cr	1 or 2/I										
Horticulture modules, 1x30 cr and 1x15 cr:												
AGRI-280 Horticulture	**30 cr**											
AGRI-281 Postharvest Physiology and Technology	5 cr	1 or 2/II	odd		5							
AGRI-282 Greenhouse Production and Management	5 cr	1 or 2/III	even			5						
AGRI-283 Berry and Fruit Crop Physiology	5 cr	1 or 2/II	even							5		
AGRI-245 Crop Science and Horticulture Practicals	5 cr	1/III-IV				2,5	2,5					
IPS-122 Plant Biotechnology and Molecular Biology	5 cr	1/II			5							
Alternative, choose 5 cr												
IPS-123 Laboratory Course in Plant Biotechnology	5 cr	1/III-IV				2,5	2,5					
AGRI-285 Translational Plant Biology	5 cr	1/III				5						
AGRI-290 Viherala	**15 cr**											
AGRI-291 Viheralueiden kasvit	5 cr	1 or 2/I	even						5			
Alternative, choose 10 cr												
AGRI-292 Taajamien viheralueet	5 cr	1 or 2/II	even							5		
AGRI-293 Kaupunkibiotoopit	5 cr	1 or 2/I	odd	5								
AGRI-294 Horticulture for Well-being and Green Care	5 cr	1 or 2/IV	odd								5	
AGRI-296 Kaupunkiviljely	5 cr	1 or 2/in May	odd									5 (in May)

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)	15-25 cr														
ECGS-700 Food and Sustainability (*see the course list below)	15 cr														
AGRI-620 Global South (*see the course list below)	15-35 cr														
VIIKM-200 Study Module Accomplished at Another University	15-45 cr														
VIIKM-201 Study Module Completed in a Foreign University	15-25 cr														
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	5 cr	1/III				5									
MAAT-028 Tieteellinen kirjoittaminen	3 cr	1/I-II		1,5	1,5										
ETK-501 Kemian työt	5 cr	1/IV					5								
MOLE-212 Molekyylibiotieteiden harjoitustyöt, 5 cr															
- MOLE-212B Biokemia	2 cr	1/III				2									
- MOLE-212D Mikrobiologia	3 cr	1/III				3									
MOLE-213 Geenitekniikka, 7 cr															
- MOLE-213A Geenitekniikan luennot	2 cr	1/III				2									
- MOLE-213C Geenitekniikan harjoitustyöt	5 cr	1/IV					5								
FYS2034 Klimatologian perusteet	2 cr	1/III				2									
Programming courses according to PSP															
Bioinformatics courses according to PSP															
Computer Science courses according to PSP															
GIS courses according to PSP															
Other methodological courses according to PSP															
Career orientation and professional skills studies (examples)															
AGRI-017 Advanced Training in a Research Group	5-10 cr	1 or 2/any periods													
AGRI-018 Practical Training	5-10 cr	1 or 2/any periods													
AGRI-019 Supervision of Younger Students in Agricultural Sciences	1-5 cr	1 or 2/any periods													
AGRI-020 Study Group in Agricultural Sciences	1-3 cr	1 or 2/any periods													
AGRI-021 Project work	5 cr	1/III-IV				2,5	2,5								
AGRI-295 Puutarhatieteen projektityö	5-15 cr	1 or 2/any periods													
AGRI-007 Other studies	1-15 cr	1 or 2/any periods													
VIIKM-002 Tutoring	5 cr	1/IV and 2/orientation week					5		0						
VIIKM-005 Demanding participation in administrative bodies and student organisations	2-5 cr	1 or 2/any periods													
Other optional studies (examples)															
Optional study units from student's own programme or from other programmes (examples):															
ME-242 Agriculture, Agroforestry and Forestry in the Tropics	5 cr	1 or 2/I	odd?	(5)					(5)						
AGRI-247 Tropical Plants of Economic Importance (web course)	3 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x			X
AGRI-247 Tropical Plants of Economic Importance (web course+contact sessions)	5 cr	1 or 2/I-II		(2,5)	(2,5)				(2,5)	(2,5)					
AGRI-202 Extended Plant Identification	2-5 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x			X
IPS-121 Plant Biochemistry	5 cr	1 or 2/II	odd		5										
IPS-111 Plant Developmental Biology	5 cr	1 or 2/II	even							5					
VIIKM-003 Orientation Week	1 cr	1/I		1											
MAAT-009 Maaseudun kehittäminen	5 cr	1 or 2/III				(5)					(5)				
SUST-001 Sustainability course (web course)	3 cr	1 or 2 / II or IV			(3)		(3)			(3)		(3)			X
PED590 Towards better well-being and studying (web course)	3 cr	1/II or III			(3)	(3)									X
FAF-101A Biodiversity.now (MOOC)	2 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x			X
FAF-101B Biodiversity.now (Project work)	3 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x			

KK-ENG501, Academic Writing 1: Principles and Practice (Master's Students) (CEFR C1)	2 cr	1/I-II		1	1										
KK-ENG502, Academic Writing 2: Process and Feedback (Master's Students) (CEFR C1)	2 cr	2/I							2						
Una Europa Micro-Credential in Sustainability -online courses															X
Climate University -online courses															X
Biodiversity network -online courses															X
Sustainability Studies KESTO-network -online courses															X
Courses or modules from the MSc programme in Integrative Plant Sciences															
Courses or modules from the MSc programme in Forest Sciences															
Courses or modules from the MSc programme in Food Sciences															
Courses or modules from the MSc programme in Environmental Change and Global Sustainability															
Courses or modules from the MSc programme in Ecology and Evolutionary Biology															
Courses or modules from the joint Virology teaching in Viikki															
Courses or modules from the joint Mycology teaching in Viikki															
**Course list of optional modules (examples):*															
AGRI-610 Agriculture and Environment	**15-25** cr														
AGRI-211 Wildlife in the Farming Environment	5 cr	1 or 2/I													
AGRI-212 Ecological Farming Methods	5 cr	1 or 2/II	even												
Alternative, choose 5 cr															
AGRI-213 Literature in Farmland Ecology	5 cr	1 or 2/any periods													
AGRI-113 Environmental Technology in Crop Production, literature	5 cr	1 or 2/any periods													
Optional, choose 15 cr															
Study units agreed in the PSP	15 cr														
ECGS-700 Food and Sustainability	**15 cr**														
AGRI-222 Sustainable Food System	5 cr	1 or 2/II	odd												
EDUM504 Sustainable Culinary Culture	5 cr	1 or 2/May or II or IV	odd												
Alternative, choose 5 cr (one course below or an other relevant course according to PSP)															
Economics :															
EKM-103 Managing Innovation in Agri-Food Value Chains for Sustainability	5 cr	1 or 2/IV													
Agroecology and Plant Production :															
AGRI-221 Agroecology: Working with the Complexity of Farming Systems	5 cr	1/III													
AGRI-223 Literature in Agroecology of Food Systems	5 cr	1 or 2/any periods													
Food Sciences :															
FOOD-401 European Food Safety	5 cr	1 or 2/III	even												
AGRI-620 Global South	**15-35 cr**														
Optional, choose 15-35 cr															
Study units agreed in the PSP, more information in the HUGS pages	15-35 cr														

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

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Animal Science study track, 120 cr

AGRI-300 Advanced studies in Animal Science, 90 cr

				A tentative two-years model teaching programme for 2023-2024 + 2024-2025*										
				2023 - 2024 First year					2024 - 2025* Second year (*a tentative model)					
				I	II	III	IV	summer	I	II	III	IV	summer	Can be completed remotely
Joint studies in the AGRI-programme	**45 cr**													
AGRI-001 Personal Study Plan (PSP)	0 cr	1/I		0										X
AGRI-002 Research Design and Analysis	5 cr	1/III-IV				2,5	2,5							
AGRI-003 Scientific Writing and Seminars, 5 cr														
- AGRI-003A Scientific Writing	4 cr	2/II-III								2	2			X
- AGRI-003B MSc Seminars	1 cr	1-2/any periods		x	x	x	x		x	x	x	x		X
AGRI-004 Literature	5 cr	2/any periods							x	x	x	x		X
AGRI-005 Master's Thesis	30 cr	2/any periods						x	x	x	x	x		
VIIKM-001 Master's Maturity Test	0 cr	2/IV										0		X
Joint studies in the Animal Science study track	**15 cr**													
AGRI-301 Animal Genomics and Nutrition	5 cr	1/III				5								
AGRI-303 Farm Animal Behaviour and Welfare	5 cr	1 or 2/I		(5)					(5)					
Optional, choose 5 cr														
An optional course according to PSP	5 cr													
Alternative modules in the Animal Science study track	**30 cr**													
*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	**15 cr**													
AGRI-311 Animal Data Analysis	5 cr	1 or 2/I	odd	5										
AGRI-312 BLUP and Variance Components	5 cr	1 or 2/II	odd		5									
AGRI-313 Selection Theory	5 cr	1 or 2/III	even			5								
Animal Nutrition modules, 2x15 cr:														
AGRI-330 Animal Physiology	**15 cr**													
AGRI-331 Ruminant Nutrition Physiology	5 cr	1 or 2/II	odd		5									
AGRI-332 Production Physiology of Farm Animals	5 cr	1 or 2/III	odd								5			
AGRI-333 Farm Animal Endocrinology	5 cr	1 or 2/I	even						5					
AGRI-340 Feed Science	**15 cr**													
AGRI-341 Feed Evaluation and Diet Formulation	5 cr	1 or 2/I-II	even						2,5	2,5				
AGRI-342 Feed Science and Technology	5 cr	1 or 2/III	even			5								
AGRI-343 Modelling and Data Analysis in Animal Nutrition	5 cr	1 or 2/IV	even				5							
Animal Welfare and Health module, 15 cr:														
AGRI-350 Animal Welfare and Health	**15 cr**													
AGRI-351 Animal Health in Production Animals and Disease Prevention	5 cr	1 or 2/II	odd		5									
AGRI-352 Welfare of Domestic Species	5 cr	1 or 2/III	even			5								
AGRI-353 Societal Aspects of Animal Welfare	5 cr	1 or 2/IV	even				5							

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)	15-25 cr											
ECGS-700 Food and Sustainability (*see the course list below)	15 cr											
AGRI-620 Global South (*see the course list below)	15-35 cr											
VIIKM-200 Study Module Accomplished at Another University	15-45 cr											
VIIKM-201 Study Module Completed in a Foreign University	15-25 cr											
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	5 cr	1/III			5							
MAAT-028 Tieteellinen kirjoittaminen	3 cr	1/I-II	1,5	1,5								
ETK-501 Kemian työt	5 cr	1/IV				5						
MOLE-212 Molekyylibiotieteiden harjoitustyöt, 5 cr												
- MOLE-212B Biokemia	2 cr	1/III			2							
- MOLE-212D Mikrobiologia	3 cr	1/III			3							
MOLE-213 Geenitekniikka, 7 cr												
- MOLE-213A Geenitekniikan luennot	2 cr	1/III			2							
- MOLE-213C Geenitekniikan harjoitustyöt	5 cr	1/IV				5						
Programming courses according to PSP												
Bioinformatics courses according to PSP												
Computer Science courses according to PSP												
Matematiikan jatkokursseja HOPS:in mukaan												
Tilastotieteen jatkokursseja HOPS:in mukaan												
Other methodological courses according to PSP												

Career orientation and professional skills studies (examples)

AGRI-017 Advanced Training in a Research Group	5-10 cr	1 or 2/any periods										
AGRI-018 Practical Training	5-10 cr	1 or 2/any periods										
AGRI-019 Supervision of Younger Students in Agricultural Sciences	1-5 cr	1 or 2/any periods										
AGRI-020 Study Group in Agricultural Sciences	1-3 cr	1 or 2/any periods										
AGRI-021 Project work	5 cr	1/III-IV			2,5	2,5						
AGRI-007 Other studies	1-15 cr	1 or 2/any periods										
VIIKM-002 Tutoring	5 cr	1/IV and 2/orientation week				5		0				
VIIKM-005 Demanding participation in administrative bodies and student organisations	2-5 cr	1 or 2/any periods										

Other optional studies (examples)

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

VIIKM-003 Orientation Week	1 cr	1/I	1										
MAAT-009 Maaseudun kehittäminen	5 cr	1 or 2/III			(5)					(5)			
SUST-001 Sustainability course (web course)	3 cr	1 or 2 / II or IV		(3)		(3)			(3)		(3)		X
PED590 Towards better well-being and studying (web course)	3 cr	1/II or III		(3)	(3)								X
FAF-101A Biodiversity.now (MOOC)	2 cr	1 or 2/any periods	x	x	x	x	x	x	x	x	x		X
FAF-101B Biodiversity.now (Project work)	3 cr	1 or 2/any periods	x	x	x	x	x	x	x	x	x		
KK-ENG501, Academic Writing 1: Principles and Practice (Master's Students) (CEFR C1)	2 cr	1/I-II	1	1									
KK-ENG502, Academic Writing 2: Process and Feedback (Master's Students) (CEFR C1)	2 cr	2/I						2					
Una Europa Micro-Credential in Sustainability -online courses													X
Climate University -online courses													X

Biodiversity network -online courses												X
Sustainability Studies KESTO-network -online courses												X
Courses or modules from the MSc programme in Food Sciences												
Courses or modules from the MSc programme in Human Nutrition and Food Behaviour												
Courses or modules from the MSc programme in Life Science Informatics												
**Course list of optional modules (examples):*												
AGRI-610 Agriculture and Environment	**15-25** cr											
AGRI-211 Wildlife in the Farming Environment	5 cr	1 or 2/I										
AGRI-212 Ecological Farming Methods	5 cr	1 or 2/II	even									
Alternative, choose 5 cr												
AGRI-213 Literature in Farmland Ecology	**5** cr	1 or 2/any periods										
AGRI-113 Environmental Technology in Crop Production, literature	5 cr	1 or 2/any periods										
Optional, choose 15 cr												
Study units agreed in the PSP	15 cr											
ECGS-700 Food and Sustainability	**15 cr**											
AGRI-222 Sustainable Food System	5 cr	1 or 2/II	odd									
EDUM504 Sustainable Culinary Culture	5 cr	1 or 2/May or II or IV	odd									
Alternative, choose 5 cr (one course below or an other relevant course according to PSP)												
Economics :												
EKM-103 Managing Innovation in Agri-Food Value Chains for Sustainability	5 cr	1 or 2/IV										
Agroecology and Plant Production :												
AGRI-221 Agroecology: Working with the Complexity of Farming Systems	5 cr	1/III										
AGRI-223 Literature in Agroecology of Food Systems	5 cr	1 or 2/any periods										
Food Sciences :												
FOOD-401 European Food Safety	5 cr	1 or 2/III	even									
AGRI-620 Global South	**15-35 cr**											
Optional, choose 15-35 cr												
Study units agreed in the PSP, more information in the HUGS pages	15-35 cr											

*** In Animal Science you need to select two alternative modules out of four modules.**

1. If you aim to complete your MSc thesis in animal breeding, please select the module AGRI-310 Animal Breeding Theory (15 cr). Please agree with your supervising PSP teacher what you should select as the other alternative module. You can include any alternative animal science module in optional modules (0-30 cr) as well.

2. If you aim to complete your MSc thesis in animal nutrition, please select at least either AGRI-330 Animal Physiology (15 cr) and AGRI-340 Feed Science (15 cr). It is recommended that you select both animal nutrition modules. If you select only one module of animal nutrition, please agree with your supervising PSP teacher, if you need to complement your animal nutrition studies with single selected courses from the other module of animal nutrition. You can include any alternative animal science module in optional modules (0-30 cr) as well.

3. If you aim to complete your MSc thesis in animal welfare and health, please select the module Animal Welfare and Health (15 cr). Please agree with your supervising PSP teacher what you should select as the other alternative module. You can include any alternative animal science module in optional modules (0-30 cr) as well.

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

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)

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

Environmental Soil Science study track, 120 cr

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

				A tentative two-years model teaching programme for 2023-2024 + 2024-2025*											
				2023 - 2024 First year					2024 - 2025* Second year (*a tentative model)						
				I	II	III	IV	summer	I	II	III	IV	summer		Can be completed remotely
Joint studies in the AGRI-programme	**45 cr**														
AGRI-001 Personal Study Plan (PSP)	0 cr	1/I		0											X
AGRI-002 Research Design and Analysis	5 cr	1/III-IV				2,5	2,5								
AGRI-003 Scientific Writing and Seminars, 5 cr															
- AGRI-003A Scientific Writing	4 cr	2/II-III								2	2				X
- AGRI-003B MSc Seminars	1 cr	1-2/any periods		x	x	x	x		x	x	x	x			X
AGRI-004 Literature	5 cr	2/any periods							x	x	x	x			X
AGRI-005 Master's Thesis	30 cr	2/any periods						x	x	x	x	x			
VIIKM-001 Master's Maturity Test	0 cr	2/IV										0			X
Joint studies in the Environmental Soil Science study track	**15 cr**														
Study units agreed in the PSP	15 cr														
Compulsory module in the Environmental Soil Science study track	**30 cr**														
Choose 1 x 30 cr module:															
Environmental Soil Science module, 1x30 cr:															
AGRI-410 Environmental Soil Science	**30 cr**														
AGRI-411 Soil Hydrology	5 cr	1 or 2/III	odd								5				
AGRI-412 Environmental Soil Science Readings II	5 cr	1 or 2/any periods		x	x	x	x		x	x	x	x			X
AGRI-413 Advanced Soil Science	5 cr	1 or 2/III	even			5									
AGRI-414 Pedogenesis and Soil Classification	5 cr	1 or 2/I	odd	5											
AGRI-415 Soil Science Laboratory III	10 cr	1 or 2/I		(10)					(10)						

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)	15-25 cr														
ECGS-700 Food and Sustainability (*see the course list below)	15 cr														
AGRI-620 Global South (*see the course list below)	15-35 cr														
VIIKM-200 Study Module Accomplished at Another University	15-45 cr														
VIIKM-201 Study Module Completed in a Foreign University	15-25 cr														
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	5 cr	1/III				5									

MAAT-028 Tieteellinen kirjoittaminen	3 cr	1/I-II		1,5	1,5									
ETK-510 Fysikaalinen kemia	5 cr	1/III-IV				2,5	2,5							
ETK-501 Kemian työt	5 cr	1/IV					5							
MOLE-101 Biokemia	5 cr	1/I		5										
Mathematics courses according to PSP														
Statistics courses according to PSP														
Physics courses according to PSP														
GIS courses according to PSP														
Other methodological courses according to PSP														
Career orientation and professional skills studies (examples)														
AGRI-017 Advanced Training in a Research Group	5-10 cr	1 or 2/any periods												
AGRI-018 Practical Training	5-10 cr	1 or 2/any periods												
AGRI-019 Supervision of Younger Students in Agricultural Sciences	1-5 cr	1 or 2/any periods												
AGRI-020 Study Group in Agricultural Sciences	1-3 cr	1 or 2/any periods												
AGRI-021 Project work	5 cr	1/III-IV				2,5	2,5							
AGRI-007 Other studies	1-15 cr	1 or 2/any periods												
VIIKM-002 Tutoring	5 cr	1/IV and 2/orientation week					5		0					
VIIKM-005 Demanding participation in administrative bodies and student organisations	2-5 cr	1 or 2/any periods												
Other optional studies (examples)														
Optional study units from student's own programme or from other programmes (examples):														
VIIKM-003 Orientation Week	1 cr	1/I		1										
MAAT-009 Maaseudun kehittäminen	5 cr	1 or 2/III				(5)					(5)			
SUST-001 Sustainability course (web course)	3 cr	1 or 2 / II or IV			(3)		(3)			(3)		(3)		X
PED590 Towards better well-being and studying (web course)	3 cr	1/II or III			(3)	(3)								X
FAF-101A Biodiversity.now (MOOC)	2 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x		X
FAF-101B Biodiversity.now (Project work)	3 cr	1 or 2/any periods		x	x	x	x	x	x	x	x	x		
KK-ENG501, Academic Writing 1: Principles and Practice (Master's Students) (CEFR C1)	2 cr	1/I-II		1	1									
KK-ENG502, Academic Writing 2: Process and Feedback (Master's Students) (CEFR C1)	2 cr	2/I							2					
Una Europa Micro-Credential in Sustainability -online courses														X
Climate University -online courses														X
Biodiversity network -online courses														X
Sustainability Studies KESTO-network -online courses														X
Courses or modules from the MSc programme in Environmental Change and Global Sustainability														
**Course list of optional modules (examples):*														
AGRI-610 Agriculture and Environment	**15-25** cr													
AGRI-211 Wildlife in the Farming Environment	5 cr	1 or 2/I												
AGRI-212 Ecological Farming Methods	5 cr	1 or 2/II	even											
Alternative, choose 5 cr														
AGRI-213 Literature in Farmland Ecology	**5** cr	1 or 2/any periods												
AGRI-113 Environmental Technology in Crop Production, literature	5 cr	1 or 2/any periods												
Optional, choose 15 cr														
Study units agreed in the PSP	15 cr													
ECGS-700 Food and Sustainability	**15 cr**													
AGRI-222 Sustainable Food System	5 cr	1 or 2/II	odd											
EDUM504 Sustainable Culinary Culture	5 cr	1 or 2/May or II or IV	odd											
Alternative, choose 5 cr (one course below or an other relevant course according to PSP)														

Economics :			
EKM-103 Managing Innovation in Agri-Food Value Chains for Sustainability	5 cr	1 or 2/IV	
Agroecology and Plant Production :			
AGRI-221 Agroecology: Working with the Complexity of Farming Systems	5 cr	1/III	
AGRI-223 Literature in Agroecology of Food Systems	5 cr	1 or 2/any periods	
Food Sciences :			
FOOD-401 European Food Safety	5 cr	1 or 2/III	even
AGRI-620 Global South	**15-35 cr**		
Optional, choose 15-35 cr			
Study units agreed in the PSP, more information in the HUGS pages	15-35 cr		