

Curriculum 2020-2023 – Agricultural, Environmental and Resource economics Master program – 120 ECTS

* Odd years

**Even years

Tba = To be announced later

Advanced Studies - AGERE-302 80-110 ECTS (AGERE – Common studies, method studies and AGERE-310 or AGERE-320)

AGERE - Common studies 35 ECTS	ECTS	Year/Period
AGERE-001 Introduction to the Master program in Agricultural, Environmental and Resource economics	0	1/I
AGERE-030 Master's thesis	30	2/I-IV
AGERE-020 Master's thesis seminar	5	1-2/I-IV
VIKIM-001 Master's Maturity Test	0	2/I-IV

Language studies (Choose at least one course)

Language studies (Choose at least one course)	ECTS	Year/Period
KK-ENG501 Academic Writing 1, Principle and practice (CEFR C1)	2	1/I-II
KK-ENG502 Academic Writing 2, Process and Feedback (CEFR C1)	2	1-2/III
KK-ENG504 Advanced English: Feedback on Writing (CEFR C1)	1	1-2/I-IV
FINN-113 Finnish 1	5	1-2
99231 Swedish for beginners 1	3	1-2

AGERE - Entrance studies (> 5 ECTS)

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AGERE-009 Mathematics for economists III <ul style="list-style-type: none"> Mandatory for all 	5	1/I
AGERE-012 Mathematics for AGERE students IV <ul style="list-style-type: none"> Mandatory for ERE, voluntary for AGE 	5	1-2/II
AGERE-010 Microeconomics for AGERE students intermediate level, mandatory if not in BSc	5	1/I
ECOM-G310 Microeconomics 1 or Aalto microeconomic policy course (31E99906) <ul style="list-style-type: none"> Mandatory for ERE, voluntary for AGE 	5	1-2/I
FOR-006 R-basic course	4	1/I
AGERE-007 Econometrics 2	5	1/III

AGERE - Theories and methods \geq 15-30 ECTS

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AGERE-002 Cost-Benefit Analysis	5	1-2/IV*
AGERE-003 Economic valuation methods	5	1-2/II**
AGERE-004 General Equilibrium Modeling	5	1-2/IV**
AGERE-005 Applied Linear Programming	5	1-2/III
AGERE-011 Socio-cultural valuation methods for Integrated Landscape Management	5	1-2/I
AGERE-013 Qualitative methods in Agricultural, Environmental and Resource economics	5	1-2/I
AGERE-A07 Changing theme course in Agricultural economics	5	tba
AGERE-E07 Changing theme course in Environmental and Resource Economics	5	tba
ECOM-G311 Microeconomics 2	5	1-2/II
ECOM-G314 Econometrics 1	5	1-2/I
ECOM-R320 Advanced econometrics 4: Microeconometrics	5	1-2/IV
ECOM-R321 Advanced econometrics 3: Macroeconometrics	5	1-2/III
FOR-108 Qualitative empirical research methods, approaches and	5	1-2/II

research ethics		
FOR-103 Survey methods in marketing and social sciences	5	1-2/III-IV
FOR-007 Statistical models: Basics in generalized linear models	5	1-2/III
FOR-008 Statistical Prediction and Sampling	5	1-2/IV
FOR-009 Statistical Modelling with R	5	1-2/IV
EKM-122 Ecological economics	5	1-2/I
EKM-126 Changing theme course in sustainable Food and Consumer economics	5	1-2/I

Study track studies

AGERE-310 Agricultural Economics - 30 ECTS

(Choose one AGE-module and other courses or modules 15 ECTS)

AGERE-320 Environmental and resource economics - 45 ECTS

(Choose EREI and EREII and other courses or modules 15 ECTS)

	ECTS	Year/Period
AGE I Agricultural Markets and Policy	15	
AGERE-A01 Price Analysis and Market Structure of the Agrifood Supply Chain I	5	1/II
AGERE-A02 Price Analysis and Market Structure of the Agrifood Supply Chain II	5	1-2/IV*
AGERE-A03 International Agricultural Trade and Trade Theory	5	1-2/III**
AGE II Production Economics and Farm Management	15	
AGERE-A04 Risk Management in Agriculture	5	1-2/II
AGERE-A05 Production and Cost Theory	5	1-2/III
AGERE-A06 Theories and Applications in Strategic Management	5	1-2/IV
AGE III Entrepreneurship	15	
EKM-127 Sustainable entrepreneurship	5	1-2/IV
xxx-xxx Courses in entrepreneurship, marketing, co-operation studies or accounting	10	1-2
ERE I Environmental Economics	15	
AGERE-E01 Environmental Economics I: Theory	5	1/II
AGERE-E02 Environmental Economics II: Mechanisms	5	1/III
AGERE-E03 Climate and Energy	5	1-2/IV*
ERE II Natural Resource Economics	15	
AGERE-E05 Introduction Dynamic Optimization	5	1/II*
AGERE-E04 Advanced Natural Resource Economics	5	1/IV
AGERE-E06 Economics of Aquatic Resources: Numerical Models	5	1-2/I-IV
ERE III Economics of climate change	15	
AGERE-E12 International environmental agreements related to marine areas and resources	5	1-2/III**
ATM302 Climate Now	5	1-2/II
FOR-215 Mitigation of Climate Change in Forestry	5	1-2/III**
FOR-216 Adaptation of forestry to climate change	5	1-2/III**
ECGS-500 Baltic sea studies (ERE IV)		15 or 30
Mandatory courses:		
ECGS-014 Diagnosis of environmental problems in aquatic ecosystems	5	1-2/I
ECGS-501 Management of environmental problems in aquatic ecosystems	5	1-2/II
And choose 5 or 20 ECTS (depending of the module size) from the list:		
ECGS-502 Marine Governance	5	1-2/IV

ECGS-003 Practical application of sustainability science: learning project	5	1-2/IV
AGERE-E12 International environmental agreements related to marine areas and resources	5	1-2/III**
AGERE-E06 Economics of Aquatic Resources: Numerical Models	5	1-2/I-IV
ECGS-151 Introduction to environmental decision analysis with Bayesian networks	5	1-2/IV
ERE V Forestry and forest policy	15	
Mandatory course:		
AGERE-E05 Introduction Dynamic Optimization	5	1/II
And choose 10 or 15 ECTS from the list:		
AGERE-E04 Advanced Natural Resource Economics	5	1-2/IV
ME-211 System analysis in forest sciences	5	1-2/I
FOR-215 Mitigation of Climate Change in Forestry	5	1-2/III**
FOR-216 Adaptation of forestry to climate change	5	1-2/III**
FOR-253 Tropical Forests and Climate Change	5	1-2/IV*
ME-106 Industrial management in the bioeconomy	5	1-2/IV
FOR-110 Economics of climate change in forestry	5	1-2/III

Other studies

Career orientation and professional skills training (Choose at least 5 ECTS of AGERE-027 or AGERE-028)	ECTS	Year/Period
AGERE-027 Career orientation/Internship	5-10	1-2/I-IV
AGERE-028 Career orientation/ Career-related project	5-10	1-2/I-IV
AGERE-026 Leadership and organization	5	1-2/II
<u>Optional</u>		
VIIKM-002 Tutoring	2	1-2/I
VIIKM-005 Participation in Student Organization and University of Helsinki Administrative Bodies	2-5	1-2/I-IV
<u>Studies which are freely chosen 0-29 ECTS</u>		
TOTAL	120	1-2

Research Master track (jointly with Helsinki Graduate School of Economics)

AGERE - Common studies	35 ECTS
AGERE-009 and AGERE-012 (Math III & IV)	10 ECTS
Study track studies ERE / AGE	30 ECTS / 15 ECTS
Research Master courses	45 ECTS
-ECOM-R310 - ECOM-R315 (6 courses)	
-Choose 3 of the following: ECOM-R316 – ECOM – R321	
Total ERE / AGE	120 / 105 (+ internship + 10 ECTS AGERE studies)

Agronomy degree/title <https://guide.student.helsinki.fi/fi/artikkeli/tutkinnon-rakenne-ja-laajuus> (Select Study program- > MSc in Agricultural Sciences)

Tarvittaessa Maataloustieteiden maisteriohjelman johtoryhmä voi pyynnöstä ottaa kantaa täyttääkö hakija agronomian arvolle kohdassa 2) annetut vastaavuusvaatimukset..