UNIVERSITÄT BONN

landwirtschaftliche fakultät

Modulhandbuch

Course Book

M.Sc. Agricultural and Food Economics (AFECO)

Prüfungsordnungsversion

Examination Regulations

2017

Modul-Übersicht/directory of modules

Abbreviations:

Teaching methods:

V=Vorlesung/lecture; Ü=Übung/assignment; S=Seminar/seminar; P=Praktikum/pracical course; E=Exkursion/excursion; PS=Projektseminar/project seminar; K=Kolloquium

Terms:

SS=Sommersemester/summer term; WS=Wintersemester/winter term

Mode:

P=Pflicht/compulsory; WPF=Wahlpflicht/elective; fWPF=freies Wahlpflichtmodul/optional; PM=Projektmodul/project module

Compulsory modules 1. semester

Methods of Empirical Research

Code: BAS-110 POS: 749101010	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS

Coordinator	Prof. Dr. Monika Hartmann		
Lecturers	Ching-Hua Yeh; Kathrin Meyer		
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften		
Usability	Course program	Mode	Study semester
	M.Sc. Agricultural and Food Economics	P	1.
Learning objectives	Introduction to ontological and epistemological backgrounds of research and basic understanding of the theoretical approaches. Introduction to the use of methods of qualitative empirical social research. Introduction to and overview on econometric methods of quantitative market(ing) research. Earn a broad understanding of the involved methodology, in order to a) use quantitative studies for one's own decision making; b) be able to conduct independently (basic) quantitative analyses		
Key competences	Ability to develop a research design; Usage of qualitative research methods; Data Analysis; Ability to discuss and to present own ideas		
Learning content	Epistemology and Philosophy of Science; Assumptions of Qualitative Research; Theoretical basics of Grounded Theory; Methods of Qualitative Research (Observation, Interview, Focus Groups); Analysis and Presentation of Qualitative Data. Quantitative research: Linear regression analysis, Assumptions of OLS/ Gauss Markov-Theorem, Presentation of analytic results, Use of non-metric (dummy) variables		
Language	English		
Recommended knowledge			
Prerequisites	none		
Maximum number of students			

Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V	Qualitative Methods of Social Research	50	2,0	90
	Ü	Quantitative Research Methods	50	2,0	90

Examination(s)	Code	Type of examination	Duration of examination	
	749101016 749101015	Written exam Assignments (1/2)	60 min during the semester	graded
Prerequisites for admission to the exam	none			not graded
Other				

Microeconomics

Code: BAS-130 | ARTS-AE6 POS: 749101020	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS

Coordinator	Prof. Dr. Thomas Heckelei		
Lecturers	Prof. Dr. Thomas Heckelei;		
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften		
Usability	Course program	Mode	Study semester
	M.Sc. Agricultural and Food Economics M.Sc. Agricultural Science and Resource Management in the Tropics and Subtropics	P WPF	1. 1.
Learning objectives	At the end of the course students will have acquired theoretical and applied competence in the neoclassical theory of supply, demand and markets at a formal mathematical level. Specifically, the students are able to formulate and solve unconstrained and constrained optimization problems and made first steps towards quantitative economic analysis.		
Key competences	Analytical thinking, use of spreadsheet tools for modelling		
Learning content	Choice and demand: utility maximization, expenditure minimization, Slutsky equation, market demand Supply and factor demand: Production functions, cost minimization, profit maximization Coordination of supply and demand through competitive markets Strategic behavior (game theory), monopoly, imperfect competition Labour markets, enterprise-hoursehold models Capital investment Land market, land heterogeneity		
Language	English		
Recommended knowledge			
Prerequisites	none		
Maximum number of students			

Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Microeconomics (ratio V:Ü 3:1)	50	4,0	180

Examination(s)	Code	Type of examination	Duration of examination	
	749101029 749101028	Written exam (1/2) Assignments (1/2)	120 min during the semester	graded
Prerequisites for admission to the exam	none			not graded
Other				

Global Food Markets and Systems					
Code: BAS-140 POS: 749101030		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Dr. Johannes Simons				
Lecturers	Dr. Johannes Simons; Prof. Dr. Monika Hartmann				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			P	1.
Learning objectives	Students obtain a deeper insight into the agricultural and food markets and international marketing. They learn to apply theoretical knowledge to the respective markets.				
Key competences	Understanding of the functioning of agricultural and food markets, ability to explain and evaluate developments on the markets, presentation skills				
Learning content	Price development and price context on food markets, international food marketing, grain markets, meat markets, markets for renewable resources, preparing and presenting results of research on current issues of international markets.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Global Food Markets and Systems (ratio V:Ü 1:1)	50 50	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749101037	Written exam	60 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Compulsory modules 2. Semester

Excursion in Agricultural and Food Economics					
Code: BAS-120 POS: 749201010		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS/SS
Coordinator	Dr. Manuela Meraner				
Lecturers	Dr. Manuela Meraner; Dr. Johannes Simons; Prof. Dr. Karin Holm-Müller; Prof. Dr. Thomas Heckelei; Prof. Dr. Monika Hartmann; Prof. Dr. Silke Hüttel; Prof. Dr. Stefanie Bröring; Dr. Hermann Trenkel				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			P	1.u.2.
Learning objectives	Transfer from theoretical knowledge into practice; linking information of different perspectives and teaching modules to explain real situations in agriculture, in the food chain and in rural areas.				
Key competences	Ability to structure resp. to chair a discussion and to prepare minutes about it; Preparation and presentations; Ability to learn to work in a team and capacity for team activities and arrangements				
Learning content	Visits to farms, to enterprises along the food chain, to institutions in the rural areas; Preparation of presentations about and background information to contemporary problems and settings. Discussion of topics related to the research programs of the various departments of the ILR. Structuring and hosting discussions. Preparation of minutes and reports about the single items on the program.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	E	Excursions, lasting 1 to 5 days to domestic and international destinations	47	1,5	180
Examination(s)	Code	Type of examination	Duration of examination		
	749201016	none			
Prerequisites for admission to the exam	In total participation in and proof of 8 days of excursion				not graded
Other					

Decision Theory and Risk Management					
Code: BAS-150 POS: 749201020		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Prof. Dr. Silke Hüttel				
Lecturers	Prof. Dr. Silke Hüttel; Dr. Reinhard Uehlke				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			P	2.
Learning objectives	Students are able to analyse decisions under uncertainty and have developed a profound understanding of the most important risk management instruments. They are able to apply this knowledge using mathematical models to address firm level risk management problems.				
Key competences	Analytical thinking in the context of decision analysis and rational choice under uncertainty; knowledge of quantitative techniques and their application to address risk management problems.				
Learning content	Scope and concepts of decision theory; probabilities; utility concepts; stochastic dominance; decision models; concepts of risk management; risk management instruments; risk modelling tools; modelling exercises and case studies.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Decision Theory and Risk Management (ratio V:Ü 1:1)	60	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749201028 749201027	Written exam (3/4) Assignments (1/4)	120 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Electives "Agribusiness (ABS)"

Financial Accounting					
Code: ABS-100 POS: 749112030		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Dr. Hermann Trenkel				
Lecturers	Dr. Hermann Trenkel				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	1.
Learning objectives	Students learn about the annual financial statements as required by German commercial law (HGB) and as proposed by the Agricultural Ministry for farms. They will understand the balance sheet and the financial statement of a firm, as well as financial ratios.				
Key competences	Financial Statement Analysis, Financial Ratios				
Learning content	Completing the accounting cycle, annual statement, the balance sheet (HGB), the balance sheet (BMELV), sources of information about companies, objectives of financial account analysis, financial ratios				
Language	German				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Buchführung und Bilanzanalyse Assignements, own studies, discussion in class (ratio V:Ü 1:1)	15 15	2,0 2,0	90 90
Examination(s)	Code	Type of examination	Duration of examination		
	749112039	Written exam	60 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Applied Planning Methods in Agribusiness					
Code: ABS-120 POS: 749112010		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Prof. Dr. Stefanie Bröring				
Lecturers	Prof. Dr. Stefanie Bröring; Dr. Chad Baum				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	3.
Learning objectives	Students will be able to identify and analyze business planning-related problems by using suitable qualitative and quantitative techniques. They will also be able to apply the relevant techniques to selected business problems and identify problem solutions through these approaches.				
Key competences	Knowledge of advanced qualitative and quantitative techniques, related software programmes, potential data sources and their application to specific problem solving in the agri-food sector				
Learning content	Planning processes and planning problems; understanding future scenarios (strategic foresight); group concept mapping (GCM) and survey design to explore public understanding; case studies; design of discrete choice experiments to explore consumer demand; use of mediation and moderation analysis to explore causal relationships; social network analyses (Ucinet) applied to different units of analysis: products, processes, company-level and/or entire supply chains in the larger setting of the agribusiness. Students will become acquainted with relevant software programs and databases to conduct own studies and present them to fellow students.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Applied Planning Methods in Agribusiness (ratio V:Ü 1:1)	25	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749112018 749112017	Written exam (1/2) Assignments (1/2)	60 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Organizational Management					
Code: ABS-140 POS: 749112040	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS	
Coordinator	Prof. Dr. Stefanie Bröring				
Lecturers	Prof. Dr. Stefanie Bröring; Dr. Laura Carraresi;				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics		WPF	1.	
Learning objectives	Participants are able to apply theory concepts of management and organization to the particularities of the agribusiness-related enterprises and chains. Moreover, participants will have to compare, present and discuss different articles stemming from the domains of e.g. Strategic Management (Resource-based view), Organisational Management (e.g. Value Chain analyses) and related areas. These theory concepts will also be applied to case studies drawn from leading international business schools (e.g. Harvard Business School).				
Key competences	Working with original management literature drawn from top level ISI-Journals. Understand theoretical frames of management research and use them to explain challenges in modern agribusiness. Applying theoretical frames to real life business problems and discuss their suitability to explain empirical phenomena.				
Learning content	Broad overview on management and organization of enterprises, value chains and food networks. Academic cases studies for teaching purposes.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V	Organizational Management	25	4,0	90
Examination(s)	Code	Type of examination	Duration of examination		
	749112048 749112047	Written exam (1/2) Presentation (1/2)	120 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Process Based Management					
Code: ABS-150 POS: 749112050	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS	
Coordinator	PD Dr. Ralf Helbig				
Lecturers	PD Dr. Ralf Helbig				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics		WPF	1.	
Learning objectives	Participants learn main principles of business architectures reflecting main business models in the food & agricultural sector with main process and data models.				
Key competences	Students are enabled to build process oriented architectures including the design, optimization, evaluation and implementation of process models and the management of their performance.				
Learning content	Overview on enterprise architecture management, process management concepts, process modelling techniques, process performance indicators, process simulation and optimization, main phases of continuous and disruptive process management.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V	Process Based Management	25	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749112059	Written exam	90 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Agricultural Production Economics					
Code: ABS-210 POS: 749112060		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Prof. Dr. Silke Hüttel				
Lecturers	Prof. Dr. Silke Hüttel; Dr. Reinhard Uehleke				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	1.
Learning objectives	Students acquire knowledge on relevant theories and methods of production economics and are able to apply these methods to problems in agriculture; they can identify core problems in this field and are able to apply various methods for productivity analysis and farm management.				
Key competences	Analytical thinking in the context of agricultural enterprise analysis, identification of farm management and production-related problems and finding solutions for them.				
Learning content	Fundamentals of production economics and management; factors influencing the operational result of farms; efficiency and productivity analysis; management problems related to crop and livestock production; farm management tools; farm growth and development.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Production economics	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749112069	Written exam	120 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Cost Accounting					
Code: ABS-110 POS: 749212010		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Dr. Hermann Trenkel				
Lecturers	Dr. Hermann Trenkel				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Knowledge of the German language terminology of cost accounting; ability to calculate unit costs for agricultural products, analyse the cost structure in production and to identify relevant costs				
Key competences	Cost terminology, cost calculation, cost analysis				
Learning content	Distinction between financial and cost accounting, German language terminology, structure of cost accounting as typical in the German agribusiness, cost behavior analysis, variable costs and fixed costs, marginal costs and total costs, cost-type accounting, cost-center accounting, cost-unit accounting, comparing actual costs and standard costs, planning and control of costs				
Language	German				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Cost accounting Assignements, own studies (ratio V:Ü 1:1)	15 15	2,0 2,0	90 90
Examination(s)	Code	Type of examination	Duration of examination		
	749212019	Written exam	120 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Investment and Financing					
Code: ABS-130 POS: 749212020		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Prof. Dr. Silke Hüttel				
Lecturers	Prof. Dr. Silke Hüttel; Dr. Stefan Seifert; Dr. Gerd Wesselmann				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	3.
Learning objectives	Students will acquire the knowledge and skills necessary for investment planning and investment appraisal				
Key competences	Analytical thinking in the context of economics and medium to long term management				
Learning content	Planning of single investments; simultaneous planning of investment and finance programs; financial management of the firm; investment and financing decisions under uncertainty				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Investment and Financing (ratio V:Ü 1:1)	30 30	2,0 2,0	90 90
Examination(s)	Code	Type of examination	Duration of examination		
	749212029	Written exam	120 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Strategy and Innovation Management in Agribusiness					
Code: ABS-230 POS: 749212100	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS	
Coordinator	Prof. Dr. Stefanie Bröring				
Lecturers	Dr. Michael Wustmans; Dr. Chad Baum				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics		WPF	2.	
Learning objectives	Participants are able to utilize strategical as well as innovation management tools for the systematic design of competitive strategies as well as innovation concepts for enterprises and institutions in Agribusiness. Moreover, the participants are able to prepare the basis for a successful implementation of an innovation-oriented management system.				
Key competences	Understanding and applying theories; using analytical skills to solve problems				
Learning content	Overview of strategic and innovation management tools that could support management in creating an innovation-oriented and innovation-supporting organizational environment as well as developing innovation strategies and implementing new product development processes. Discussion of an appropriate utilization of the tools in the development and implementation of strategic innovation concepts in particular business environments.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V	Strategy and Innovation Management in Agribusiness	25	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749212109	Oral exam	20-30 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Project Analysis					
Code: ABS-240 | ARTS-C3 POS: 749212040	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS	
Coordinator	Dr. Udo Bremer				
Lecturers	Dr. Udo Bremer				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics M.Sc. Agricultural Science and Resource Management in the Tropics and Subtropics		WPF P	2. 3.	
Learning objectives	To become acquainted with and exercise various methods of project planning, to look on projects from an entity's and a society's viewpoint, to exercise the "soft skills" required for project management, to develop a project from its inception to the final report				
Key competences	Ability to plan and to manage projects				
Learning content	Project planning and implementation, SWOT and Log-frame approach; budget planning and management, Quantitative techniques for planning under consideration of with- and without-project situations Planning of projects with tangible products - with regard to an entity's standpoint (Financial analysis) - with regard to the society's standpoint (Economic analysis) Planning of a fictional project in the context of development co-operation (group work)				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Project Analysis Lectures with integrated exercises at a ratio of 2:1	20	4,0	150 30
Examination(s)	Code	Type of examination	Duration of examination		
	749212049	Written exam	90 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Seminar Production Economics and Farm Management					
Code: ABS-300 POS: 749212080		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Prof. Dr. Silke Hüttel				
Lecturers	Prof. Dr. Silke Hüttel				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Students are able to apply the relevant theories and methods in the field of production economics, productivity and efficiency analysis to agricultural production and food processing problems. They practice research techniques such as structuring a planning problem, data acquisition and the application of quantitative methods. Furthermore, they will gain hands-on experience in presentation of scientific results and the moderation of a discussion.				
Key competences	Knowledge on efficiency and productivity analysis, presentation and writing skills				
Learning content	Case studies related to agri-business and productivity analysis and planning problems.				
Language	English				
Recommended knowledge	Quantitative methods, econometrics				
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	S	Production Economics and Farm Management	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749212089 749212088	Term paper (2/3) Presentation (1/3)	during the semester during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Seminar Quality and Innovation Management in Agribusiness					
Code: ABS-310 POS: 749212090		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Dr. Laura Carraresi				
Lecturers	Dr. Laura Carraresi				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Participants learn how to lead and moderate discussions and prepare presentations related to the specific topics of the research to be able to conceptualize a management system for problem support in enterprises, institutions and other organizations in the future. They learn how to select an appropriate theoretical framework on the specific research topic and how to deliver a consistent report on it				
Key competences	Presentation, communication, analytical and writing skills				
Learning content	The seminar strives to analyze different food chains from different perspectives like e.g.,: Innovation and quality management in agribusiness sector, convergence of value chains and networks or acceptance of technology-induced innovations across the food chain. According to that, the seminar is divided into three mini-symposium sessions where students present their individual findings with respect to the selected area of research.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	S	Seminar Quality and Innovation Management in Agribusiness	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749212099 749212098	Term paper (2/3) Presentation (1/3)	during the semester during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Special Project in Technology and Innovation Management					
Code: ABS-320 POS: 749112070		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS+SS
Coordinator	Prof. Dr. Stefanie Bröring				
Lecturers	Prof. Dr. Stefanie Bröring				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.-3.
Learning objectives	This module allows for special research projects mutually agreed upon between student and coordinator. A clearly defined project "deliverable" will be submitted.				
Key competences	Scientific research and writing				
Learning content	Topic from the field of "Technology and Innovation Management in Agribusiness". Specific topic and form of deliverable (paper, report, poster, documentation,...) to be agreed upon between student and coordinator.				
Language	Englisch				
Recommended knowledge					
Prerequisites	Modul ABS-140 or ABS-230 with 1.3 or better have to be completed at the start of this module.				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	PS*	Special project	3	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749112079	Term paper	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Special Project in Production Economics					
Code: ABS-340 POS: 749112080		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS+SS
Coordinator	Prof. Dr. Silke Hüttel				
Lecturers	Prof. Dr. Silke Hüttel				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.-3.
Learning objectives	This module is for special research projects mutually agreed upon between student and coordinator. A clearly defined project "deliverable" will be submitted.				
Key competences	Scientific research and writing				
Learning content	Topic from the field of "Production Economics". Specific topic and form to deliverable (paper, report, poster, documentation,...) to be agreed upon between student and coordinator.				
Language	Englisch				
Recommended knowledge					
Prerequisites	Modul ABS-210 with 1.3 or better, and APO-230 with 1.7 or better have to completed at the start of this module.				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	PS*	Special project	5	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749112089	Term paper	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Evidence based agricultural policy impact analysis - causal effects and policy design					
Code: ABS-350 POS: 749112090		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Dr. Reinhard Uehleke				
Lecturers	Dr. Reinhard Uehleke; Dr. Stefan Seifert				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	3.
Learning objectives	Students · are familiar with voluntary (second pillar) agricultural policy measures, · acquire understanding of quasi-experimental and experimental evaluation methods, · are able to apply methods for causal inference in the context of agricultural policy analysis, · can retrieve the relevant causal estimators using the software R, · get an in-depth knowledge on experimental approaches to improve agricultural policy design.				
Key competences	Understanding of cause and effect paths of agricultural policy instruments; analytical thinking about causal impact in the context of environmental program evaluation; knowledge of quantitative techniques and software programming skills; ability to research, understand and reflect the current literature in this field.				
Learning content	Agri-environmental measures; potential outcome framework; methods for causal inference; experimental approaches to evaluate impacts of agricultural policy and design optimization.				
Language	English				
Recommended knowledge	BA-A E-3/02 – Quantitative Research Methods				
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü		30 30	1,0 1,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749112099	Written exam	90 min		graded
Prerequisites for admission to the exam	Assignment				not graded
Other					

Marketing in Theory and Practice						
Code: MAC-100 POS: 749132040		Workload (h) 180	Credits (LP) 6	Duration 1		Term WS
Coordinator	Dr. Johannes Simons					
Lecturers	Dr. Johannes Simons; Jeanette Klink-Lehmann; Nina Weingarten					
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften					
Usability	Course program			Mode	Study semester	
	M.Sc. Agricultural and Food Economics			WPF	1.o.3.	
Learning objectives	Students obtain deeper insights into marketing with a special focus on the framework of food markets. They learn to apply theoretical knowledge to an oligopolistic market using a computer assisted simulation game.					
Key competences	Ability to apply different theoretical approaches to analyse and evaluate marketing on food markets appropriately,					
Learning content	Framework for marketing on food markets, perception of products, processing of information, risk perception, purchase decisions, opportunities and limits to shape the market, taking part in a computer assisted marketing game that simulates the outcome of decisions on an oligopolistic market					
Language	English					
Recommended knowledge						
Prerequisites	none					
Maximum number of students						
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]	
	V Ü	Marketing in Theory and Practice Computer assisted simulation game		2,0 2,0	90 90	
Examination(s)	Code	Type of examination	Duration of examination			
	749132049 749132048	Written exam (3/5) Presentation (2/5)	60 min during the semester		graded	
Prerequisites for admission to the exam	none				not graded	
Other						

Bio-economic modelling at farm-scale					
Code: ENV-240 POS: 749222050	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS	
Coordinator	PD Dr. Wolfgang Britz				
Lecturers	PD Dr. Wolfgang Britz				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics		WPF	2.	
Learning objectives	With the completion of this course, the students have acquired advanced competence in the concepts, formulation and interpretation of farm-scale bio-economic programming approaches. Furthermore, they have been introduced to the General Algebraic Modelling System (GAMS) and are capable of independently modifying farm-scale economic simulation models in this modelling language.				
Key competences	Conceptualization of bio-economic farm-scale problems, computer programming, systems thinking, analysis of programming models				
Learning content	Basics of linear and mixed-integer linear programming, programming solutions to farm scale problems related to (1) branch management (crop and feed mix optimization, herd dynamics, resource use), (2) environmental indicators and related policy instruments, (3) investment and financing, (4) risk and risk behavior, (5) dynamic stochastics aspects.				
Language	Englisch				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Modelling of Dynamic Agri-ecological systems (ratio V:Ü 1:1)	15	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749222059	Assignments	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Electives "Resource and Environmental Economics (ENV)"

Economics on Sustainability					
Code: ENV-100 | ARTS-AE5 POS: 749122030	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS	
Coordinator	Prof. Dr. Karin Holm-Müller				
Lecturers	Prof. Dr. Karin Holm-Müller; Dr. Elsa Cardona Santos				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics M.Sc. Agricultural Science and Resource Management in the Tropics and Subtropics		WPF WPF	1. 1.	
Learning objectives	Students will obtain a good knowledge about the theoretical approaches of environmental and ecological economics and can apply them to problems related to sustainability.				
Key competences	Enhance capability to reflect and discuss complex problems from different perspectives				
Learning content	Basic approaches of ecological and environmental economics;, The environmental Kuznets curve and the Pollution haven hypothesis; intertemporal allocation of renewable and non-renewable approaches Definition and Indicators for sustainability (Genuine savings);monetary valuation of environmental impacts; Life-cycle-analysis and communication of environmental achievements; food consumption and sustainability				
Language	English				
Recommended knowledge	Solid knowledge at bachelor level of microeconomics and welfare theory are recommended for this module.				
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Economics on Sustainability (ratio V:Ü 1:1)	40	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749122039	Written exam	120 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Advanced Environmental Economics					
Code: ENV-210 POS: 749122010		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Prof. Dr. Jan Börner				
Lecturers	Prof. Dr. Jan Börner				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Centered around the problem of biodiversity protection students will achieve good knowledge on institutions, optimal control theory and international environmental agreements that can be used to develop exemplary research approaches for own research in environmental economics.				
Key competences	Students' own creativity in research will be developed; they will furthermore be able to address real world problems either in models that can be solved mathematically or to derive testable hypotheses on questions of interest				
Learning content	Priorities in Biodiversity protection, redundancy and the pharmaceutical value of biodiversity, institutional analysis in biodiversity protection: impact regulation in Germany and the US; critical factors in ABS-implementation; Optimal control theory in models on biodiversity protection; the theory of international environmental agreements and biodiversity protection.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Economics of biodiversity protection (ratio V:Ü 1:1)	15	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749122019	Oral exam	45 min		graded
Prerequisites for admission to the exam	none				not graded
Other	This course builds on knowledge of Environmental Economics and intertemporal allocation of renewable and non-renewable resources.				

Agricultural and Agri-Environmental Law

Code: ENV-220 POS: 749122020	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS

Coordinator	Prof. Dr. Karin Holm-Müller		
Lecturers	Prof. Dr. jur. habil. Dieter Schweizer		
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften		
Usability	Course program	Mode	Study semester
	M.Sc. Agricultural and Food Economics	WPF	3.
Learning objectives	The students should receive an overview on the legal base of the agricultural and agri-environmental legislation of the EU and Germany including the application and implementation in the German Länder, Germany as a whole and the EU. The curriculum also includes practical examples of enforcing the agricultural and agri-environmental legislation. The students should be in the position of getting an idea of and assessing the legal basics of the primary production of food.		
Key competences	The students should be able to draft and develop solutions concerning problems of the sector described above.		
Learning content	The legal systematic of agricultural and agri- environmental legislation in Germany and its position in the EU; the implication of the Civil Code of Germany as regards agricultural farms; legislation as regards improvement of the structure of agriculture; legal aspects of renewable energies, patent law and agriculture; legal aspects of subsidies and agriculture; agri- environmental law and international relations with third parties, European and German environmental and agri- environmental legislation; enforcing environmental law in Germany, legal aspects of emissions, water and soil protection.		
Language	German		
Recommended knowledge			
Prerequisites	none		
Maximum number of students			

Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V	Agrar- und Agrarumweltrecht	30	4,0	180

Examination(s)	Code	Type of examination	Duration of examination	
	749122029	Written exam	120 min	graded
Prerequisites for admission to the exam	none			not graded
Other				

Seminar on Environmental Economics and Policy					
Code: ENV-300 POS: 749122040		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Prof. Dr. Jan Börner				
Lecturers	Prof. Dr. Jan Börner				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	3.
Learning objectives	Students will achieve a solid understanding of problems in Environmental Economics and Policy				
Key competences	Develop research questions and hypotheses based on environmental and ecological economic theory Address real world problems using economic tools and approaches Participate in academic debates on environmental policy design Improve writing and presentation skills				
Learning content	Topical issues in environmental economic research				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	S*	Environmental Economics and Policy	15	2,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749122049 749122048 749122047	Term paper (5/10) Presentation (3/10) Contributions to discussions (2/10)	during the semester during the semester during the semester		graded
Prerequisites for admission to the exam	regular participation				not graded
Other					

Special Project in Environmental Economics					
Code: ENV-310 POS: 749122050		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS+SS
Coordinator	Prof. Dr. Jan Börner				
Lecturers	Prof. Dr. Jan Börner				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.-3.
Learning objectives	This module allows for special research projects mutually agreed upon between student and coordinator. A clearly defined project "deliverable" will be submitted.				
Key competences	Scientific research and writing.				
Learning content	Topic from the field of Environmental, Ecological or Resource Economics. Specific topic and form of deliverable (paper, report, poster, documentation,...) to be agreed upon between student and coordinator.				
Language	Englisch				
Recommended knowledge					
Prerequisites	Modules ENV-100 and ENV-110, and ENV-210 or ENV-130 have to be completed with simple average at or below 1.3 at the start of this module.				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	PS*	Special Project	3	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749122059	Term paper	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other	This course builds on knowledge of Environmental Economics and intertemporal allocation of renewable and non-renewable resources. It requires willingness to apply and discuss mathematical approaches to economic problem solving.				

Impact evaluation of conservation & development projects and environmental policies					
Code: ENV-130 POS: 749222040	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS	
Coordinator	Prof. Dr. Jan Börner				
Lecturers	Prof. Dr. Jan Börner				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics M.Sc. Agricultural Science and Resource Management in the Tropics and Subtropics		WPF WPF	2. 2.	
Learning objectives	The course will introduce concepts and quantitative techniques to evaluate impacts of conservation measures, such as payments for environmental services, integrated conservation and development projects, and the enforcement of regulatory policies.				
Key competences	· Understanding the differences between state-of-the-art evaluation methods · Ability to interpret results in diverse intervention contexts with a focus on tropical country environments.				
Learning content	Role of impact evaluation in guiding the design of conservation measures, i.e., in the context of international mechanisms for climate change mitigation (REDD+); Overview of methods and related debates: black-box versus theory-based impact evaluation; Counterfactual analysis, experimental versus non-experimental design, selection bias, impact heterogeneity, and estimation methods; Case studies of conservation initiatives; Application of key methods to selected cases.				
Language	English				
Recommended knowledge	Basic knowledge of microeconomics and statistics				
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Resource and Environmental Economics (ratio V:Ü 1:1)	15	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749222049 749222048	Written exam (1/2) Assignments (1/2)	60 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Bio-economic modelling at farm-scale					
Code: ENV-240 POS: 749222050	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS	
Coordinator	PD Dr. Wolfgang Britz				
Lecturers	PD Dr. Wolfgang Britz				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics		WPF	2.	
Learning objectives	With the completion of this course, the students have acquired advanced competence in the concepts, formulation and interpretation of farm-scale bio-economic programming approaches. Furthermore, they have been introduced to the General Algebraic Modelling System (GAMS) and are capable of independently modifying farm-scale economic simulation models in this modelling language.				
Key competences	Conceptualization of bio-economic farm-scale problems, computer programming, systems thinking, analysis of programming models				
Learning content	Basics of linear and mixed-integer linear programming, programming solutions to farm scale problems related to (1) branch management (crop and feed mix optimization, herd dynamics, resource use), (2) environmental indicators and related policy instruments, (3) investment and financing, (4) risk and risk behavior, (5) dynamic stochastics aspects.				
Language	Englisch				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Modelling of Dynamic Agri-ecological systems (ratio V:Ü 1:1)	15	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749222059	Assignments	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Environmental Economics and Policies					
Code: ENV-110 | ARTS-BE3 POS: 749222010	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS	
Coordinator	Prof. Dr. Karin Holm-Müller				
Lecturers	Dr. Elsa Cardona Santos				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics M.Sc. Agricultural Science and Resource Management in the Tropics and Subtropics		WPF WPF	2. 2.	
Learning objectives	Students will be able to use neoclassical and institutional economics to analyze the impacts of environmental policy design				
Key competences	Rigorous theoretical analysis of policy measures; Enhanced capability of discussing complex matters grounded in economic theory;				
Learning content	General environmental policy: Public goods, Common pool resources and institutions, Theoretically optimal policy instruments (Coase, Pigou); pragmatic policy instruments (with real world examples): environmental liability, command and control approaches, taxes, subsidies, emission trading; Asymetric information and incentive compatible instruments; eco-tax and double dividend; Agricultural environmental policy: Property rights, taxes and agri-environmental measures (AEM), performance based AEM, auctions in AEM; influences from other sectors on agri-environmental policy implications.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Environmental policy (ratio V:Ü 1:1)	40	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749222019	Written exam	120 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Ethics in Food Consumption and Production					
Code: MAC-230 POS: 749232030	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS	
Coordinator	Prof. Dr. Monika Hartmann				
Lecturers	Prof. Dr. Monika Hartmann; Dr. Kristin Hagen				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics		WPF	1.o.3.	
Learning objectives	The course aims to introduce students to the growing sense of responsibility in the areas of food consumption and production. Students acquire in-depth knowledge in the field of ethical consumerism and Corporate Social Responsibility with respect to theoretical concepts and empirical case studies.				
Key competences	Understanding developments, drivers and determinants of ethical consumption and production in the food sector.				
Learning content	Normative food ethics: Application of ethical theory and ethical decision making tools to food ethics topics; Behavioural consumer models: Understanding determinants of ethical consumption; Influencing consumer choice (food labelling policies; nudges); Consumer power (e.g. boycotts versus buycotts; social media);The concept of CSR; Economic theories and CSR; Effects of CSR (empirical evidence); CSR communication; Case studies regarding CSR and ethical consumerism in the food sector.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Ethics in food consumption and production (ratio V:Ü 1:1)	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749232037 749232036	Report (presentation) (6/10) Assignments (4/10)	60 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Agricultural Production Economics					
Code: ABS-210 POS: 749112060		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Prof. Dr. Silke Hüttel				
Lecturers	Prof. Dr. Silke Hüttel; Dr. Reinhard Uehleke				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	1.
Learning objectives	Students acquire knowledge on relevant theories and methods of production economics and are able to apply these methods to problems in agriculture; they can identify core problems in this field and are able to apply various methods for productivity analysis and farm management.				
Key competences	Analytical thinking in the context of agricultural enterprise analysis, identification of farm management and production-related problems and finding solutions for them.				
Learning content	Fundamentals of production economics and management; factors influencing the operational result of farms; efficiency and productivity analysis; management problems related to crop and livestock production; farm management tools; farm growth and development.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Production economics	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749112069	Written exam	120 min		graded
Prerequisites for admission to the exam	none				not graded
Other					

Partial and General Equilibrium Modelling					
Code: APO-250 POS: 749242060		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	PD Dr. Wolfgang Britz				
Lecturers	PD Dr. Wolfgang Britz				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	With the completion of this course, the students have acquired advanced competence in the concepts, formulation and interpretation of theory-based partial and general equilibrium models for policy analysis. Furthermore, they have been introduced to the General Algebraic Modelling System (GAMS) and are capable of independently modifying market-scale economic simulation models in this modelling language.				
Key competences	Conceptualization of market-scale problems, computer programming, quantitative analysis of policy instruments.				
Learning content	1) Introduction to GAMS 2) Profit and utility maximization in GAMS 3) Key elements of Multi-Commodity market models (MCM) 4) Flexible functional forms and parameter calibration, welfare analysis 5) Modelling international trade: point markets, spatial abritrage, Armington approach 6) Simulation exercises of a Social Accounting Matrix 7) The structure of a Social Accounting Matrix 8) Key elements of Computable General Equilibrium model (CGE) 9) Simulation exercises with selected CGE models				
Language	Englisch				
Recommended knowledge	Modul BAS-130 or equivalent				
Prerequisites					
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü		20 20	2,0 2,0	
Examination(s)	Code	Type of examination	Duration of examination		
	749242069 749242068	Written exam (1/2) Assignments (1/2)	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Advanced Applied Econometrics

Code: APO-230 POS: 749242010	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS

Coordinator	Prof. Dr. Thomas Heckelei		
Lecturers	Prof. Dr. Silke Hüttel; Prof. Dr. Thomas Heckelei		
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften		
Usability	Course program	Mode	Study semester
	M.Sc. Agricultural and Food Economics	WPF	2.
Learning objectives	Students will acquire competence in selecting and applying econometric methods to estimate quantitative economic models derived from economic theory. In addition they will learn to use and interpret outputs from econometric software packages.		
Key competences	Quantitative analysis; Competence in software use for quantitative analysis;		
Learning content	1) Review General Linear Model and OLS 2) Model specification (functional form and variable choice) 3) Seemingly Unrelated Regression, system estimation 4) Endogenous regressors (instrumental variable estimation, Generalised Method of Moments) 5) Panel data analysis 6) Limited dependent variable models (Maximum Likelihood) 7) Using prior information in estimation (Bayesian estimation)		
Language	English		
Recommended knowledge	Module BAS-110 or similar knowledge		
Prerequisites			
Maximum number of students			

Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Advanced Applied Econometrics (ratio V:Ü 3:1)	20	4,0	180

Examination(s)	Code	Type of examination	Duration of examination	
	749242019	Assignments	during the semester	graded
Prerequisites for admission to the exam	none			not graded
Other				

Evidence based agricultural policy impact analysis - causal effects and policy design					
Code: ABS-350 POS: 749112090		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Dr. Reinhard Uehleke				
Lecturers	Dr. Reinhard Uehleke; Dr. Stefan Seifert				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	3.
Learning objectives	Students · are familiar with voluntary (second pillar) agricultural policy measures, · acquire understanding of quasi-experimental and experimental evaluation methods, · are able to apply methods for causal inference in the context of agricultural policy analysis, · can retrieve the relevant causal estimators using the software R, · get an in-depth knowledge on experimental approaches to improve agricultural policy design.				
Key competences	Understanding of cause and effect paths of agricultural policy instruments; analytical thinking about causal impact in the context of environmental program evaluation; knowledge of quantitative techniques and software programming skills; ability to research, understand and reflect the current literature in this field.				
Learning content	Agri-environmental measures; potential outcome framework; methods for causal inference; experimental approaches to evaluate impacts of agricultural policy and design optimization.				
Language	English				
Recommended knowledge	BA-A E-3/02 – Quantitative Research Methods				
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü		30 30	1,0 1,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749112099	Written exam	90 min		graded
Prerequisites for admission to the exam	Assignment				not graded
Other					

Electives "Market and Consumer Research (MAC)"

Food Industrial Economics					
Code: MAC-110 POS: 749232020		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Prof. Dr. Monika Hartmann				
Lecturers	Prof. Dr. Monika Hartmann				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Students will understand competitive processes. They know interdependencies between market structure, conduct and performance. They are able to apply theoretical approaches to understand and evaluate the functioning of specific markets.				
Key competences	Apply the theory of industrial economics to understand the impact of market structure and market conduct on market performance in the food sector.				
Learning content	The role of competition, theory of the firm, the SCP framework, analysing the effects of market structure (e.g. monopolistic competition, oligopoly), impact of market conduct (price discrimination, product differentiation, advertisement, information policy, cartels), measuring market performance, empirical studies analysing determinants of the level and persistence of market performance.				
Language	English				
Recommended knowledge	Modul BAS-130 or equivalent knowledge				
Prerequisites					
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Food Industrial Economics (ratio V:Ü 1:1)	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749232029 749232028	Written exam (3/4) Assignments (1/4)	60 min during the semester		graded
Prerequisites for admission to the exam	keine				not graded
Other					

Behavioral Economics					
Code: MAC-120 POS: 749232010		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Dr. Manuela Meraner				
Lecturers	Dr. Nikolai Reynolds; Dr. Manuela Meraner				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Students will understand key concepts of behavioral economics. They will be familiar with the implications regarding theories of human (economic) decision making and (strategic) social interaction. They will learn how experiments are conducted in behavioral economics and analyze and discuss experimental work.				
Key competences	Apply the theoretical concepts of behavioral economics to explain market performance and behavior of actors on the markets, understand implications for microeconomics, industrial economics and public economics. Presentation skills.				
Learning content	Rational choice in neoclassical economics, bounded rationality, framing, anchoring and endowment effects, status quo bias, heuristics and cognitive errors, nudging, libertarian paternalism, experimental economics, altruism, fairness and reciprocity, introduction to cognitive neuroscience.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Behavioral Economics (ratio V:Ü 1:1)	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749232019 749232018	Written exam (7/10) Presentation (3/10)	60 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Advanced Methods of Market Research					
Code: MAC-210 POS: 749132010		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Prof. Dr. Monika Hartmann				
Lecturers	Ching-Hua Yeh; Nina Weingarten; Ingo Birkle				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Deeper insight into methods of quantitative and qualitative market and marketing research.				
Key competences	Earn a broad understanding of the involved methodology, in order a) to use research studies for own decision making; b) to be able to conduct research.				
Learning content	Theoretical and methodological background on measurement and analysis of attitudes, perception, evaluation, and preferences using an experimental research approach and analyzing experimental data by using various ANOVA methods; applying experimental design approach, factor analysis, cluster analysis, conjoint analysis, choice experiments, concept mapping, and structural equation modelling techniques to test research model.				
Language	English				
Recommended knowledge	Modul BAS-110 or equivalent knowledge				
Prerequisites					
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Advanced Methods of Market Research	25 25	2,0 2,0	90 90
Examination(s)	Code	Type of examination	Duration of examination		
	749132019 749132018	Written Exam (3/4) Assignments (1/4)	60 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Consumer oriented Communication in the Food Sector					
Code: MAC-220 POS: 749132020		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Dr. Johannes Simons				
Lecturers	Dr. Johannes Simons; Kathrin Meyer				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Deeper insight into communication theory and policy in agricultural and food markets. Application of conceptual knowledge of communication theory to marketing issues in the agri-food sector and to nutrition education policies.				
Key competences	Understanding and critical evaluation of commercial and public communication policy in the agri-food sector				
Learning content	Information Economics; Communication Theory; Media Research (e.g. Uses and Gratification Approach, Agenda-Setting, Knowledge gap, Cultivation Theory); Perception and Communication (e.g. Narrative Paradigm, Attitude Change); Marketing; Advertising and commercials in the food sector; Labelling policies.				
Language	English				
Recommended knowledge					
Prerequisites	keine				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Consumer oriented Communication in the food sector (ratio V:Ü 3:1)	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749132029 749132028	Written exam (7/10) Presentation (3/10)	60 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Ethics in Food Consumption and Production					
Code: MAC-230 POS: 749232030	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS	
Coordinator	Prof. Dr. Monika Hartmann				
Lecturers	Prof. Dr. Monika Hartmann; Dr. Kristin Hagen				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics		WPF	1.o.3.	
Learning objectives	The course aims to introduce students to the growing sense of responsibility in the areas of food consumption and production. Students acquire in-depth knowledge in the field of ethical consumerism and Corporate Social Responsibility with respect to theoretical concepts and empirical case studies.				
Key competences	Understanding developments, drivers and determinants of ethical consumption and production in the food sector.				
Learning content	Normative food ethics: Application of ethical theory and ethical decision making tools to food ethics topics; Behavioural consumer models: Understanding determinants of ethical consumption; Influencing consumer choice (food labelling policies; nudges); Consumer power (e.g. boycotts versus buycotts; social media);The concept of CSR; Economic theories and CSR; Effects of CSR (empirical evidence); CSR communication; Case studies regarding CSR and ethical consumerism in the food sector.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Ethics in food consumption and production (ratio V:Ü 1:1)	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749232037 749232036	Report (presentation) (6/10) Assignments (4/10)	60 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Marketing in Theory and Practice					
Code: MAC-100 POS: 749132040		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Dr. Johannes Simons				
Lecturers	Dr. Johannes Simons; Jeanette Klink-Lehmann; Nina Weingarten				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	1.o.3.
Learning objectives	Students obtain deeper insights into marketing with a special focus on the framework of food markets. They learn to apply theoretical knowledge to an oligopolistic market using a computer assisted simulation game.				
Key competences	Ability to apply different theoretical approaches to analyse and evaluate marketing on food markets appropriately,				
Learning content	Framework for marketing on food markets, perception of products, processing of information, risk perception, purchase decisions, opportunities and limits to shape the market, taking part in a computer assisted marketing game that simulates the outcome of decisions on an oligopolistic market				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Marketing in Theory and Practice Computer assisted simulation game		2,0 2,0	90 90
Examination(s)	Code	Type of examination	Duration of examination		
	749132049 749132048	Written exam (3/5) Presentation (2/5)	60 min during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Seminar Marketing and Market Analysis					
Code: MAC-300 POS: 749132030		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Prof. Dr. Monika Hartmann				
Lecturers	Prof. Dr. Monika Hartmann; M.Sc. Nina Weingarten				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	3.
Learning objectives	Students learn to apply the relevant theories to topical issues. They acquire knowledge and practice research techniques such as structuring research papers, literature search and referencing, and technical writing. Furthermore, they will gain hands-on experience in carrying out own surveys (construction of questionnaire, carrying out survey, evaluation) and in the presentation of scientific results as well as the moderation of a discussion				
Key competences	Experience in developing, carrying out and evaluating surveys, presentation, communication and writing skills				
Learning content	Topical issues on agricultural and food markets and food marketing at a national and international level				
Language	English				
Recommended knowledge	Module MAC-210				
Prerequisites					
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	S	Market Analysis and Marketing	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749132039 749132038	Term paper (3/4) Presentation (1/4)	during the semester during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Special Project in Market and Consumer Research					
Code: MAC-310 POS: 749132050		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS+SS
Coordinator	Prof. Dr. Monika Hartmann				
Lecturers	Prof. Dr. Monika Hartmann; Dr. Johannes Simons				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.-3.
Learning objectives	This module allows for special research projects mutually agreed upon between student and coordinator.				
Key competences	Scientific research and writing.				
Learning content	Topic from the field of Market and Consumer Research. Specific topic and form of deliverable (e.g. paper, report, poster, documentation) to be agreed upon between student and coordinator.				
Language	English				
Recommended knowledge					
Prerequisites	Modules BAS-110, BAS-130 have to be completed and two MAC modules have to be completed with the simple average at or below 1.3.				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	PS*		5	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749132059	Term paper	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Advanced Applied Econometrics					
Code: APO-230 POS: 749242010		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Prof. Dr. Thomas Heckelei				
Lecturers	Prof. Dr. Silke Hüttel; Prof. Dr. Thomas Heckelei				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Students will acquire competence in selecting and applying econometric methods to estimate quantitative economic models derived from economic theory. In addition they will learn to use and interpret outputs from econometric software packages.				
Key competences	Quantitative analysis; Competence in software use for quantitative analysis;				
Learning content	1) Review General Linear Model and OLS 2) Model specification (functional form and variable choice) 3) Seemingly Unrelated Regression, system estimation 4) Endogenous regressors (instrumental variable estimation, Generalised Method of Moments) 5) Panel data analysis 6) Limited dependent variable models (Maximum Likelihood) 7) Using prior information in estimation (Bayesian estimation)				
Language	English				
Recommended knowledge	Module BAS-110 or similar knowledge				
Prerequisites					
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Advanced Applied Econometrics (ratio V:Ü 3:1)	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749242019	Assignments	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Electives "Agricultural and Development Policy (APO)"

European and International Agricultural Policy					
Code: APO-110 POS: 749142020		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Prof. Dr. Thomas Heckelei				
Lecturers	Dr. Arnim Kuhn				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	1. o. 3.
Learning objectives	At the end of the course, students will be able to apply economic theory in analysing existing agricultural policies. Students will learn the selection and application of relevant economic theories. They will also acquire a thorough understanding of the assumptions and limitations of theories by critically discussing the outcomes of different existing studies.				
Key competences	Capacity for theory-based argumentation				
Learning content	1) Theoretical Background for evaluating agricultural policies, reference to e.g. (new) welfare economics, cost-benefit analysis, pubic choice 2) Economic analysis of agricultural policies of important global players (e.g. EU, US, China), developing, transition countries 3) Current topics and future challenges in international agricultural policy (e.g. rural development, sustainable intensification)				
Language	English				
Recommended knowledge	Module BAS-130 or similar knowledge in microeconomic theory at master level				
Prerequisites					
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	European and International Agricultural Policy (ratio V:Ü 3:1)	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749142029	Assignments	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Development Sociology

Code: APO-130 | ARTS-A4 POS: 749142010	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS

Coordinator	Dr. Udo Bremer		
Lecturers	Dr. Udo Bremer, Lenny Martini		
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften		
Usability	Course program	Mode	Study semester
	M.Sc. Agricultural and Food Economics M.Sc. Agricultural Science and Resource Management in the Tropics and Subtropics	WPF P	1. 1.
Learning objectives	Introduction into the theoretical and methodological basics of the Sociology of Development. To learn about social phenomenon and strategies at the micro and the macro level, the structure, function and change of agri-social systems; Understanding of the process of social change in the agricultural sector and in rural areas of developing countries; Ability to define agri-social needs of development and related strategies		
Key competences	Interpretation and Evaluation of English text material; Visualization in brainstorming and mind mapping-procedures		
Learning content	Fields of research, concepts and indicators of development processes, sociological theories of social change, actors analysis and participation, phenomenon of development (networks, globalization, migration, poverty, urbanization) Theory of Social Systems, Analysis of Social Systems, Social structures of farming systems, Social Security Systems, Cooperatives, Farmers Associations and MFIs in Developing Countries, Agricultural reforms in selected countries		
Language	English		
Recommended knowledge			
Prerequisites	none		
Maximum number of students			

Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V V	Development Sociology Agricultural Institutions and Social Systems	30 30	2,0 2,0	90 90

Examination(s)	Code	Type of examination	Duration of examination	
	749142019	Written exam	100 min	graded
Prerequisites for admission to the exam	none			not graded
Other				

Applied Modelling of Agricultural Systems					
Code: APO-220 POS: 749242020	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS	
Coordinator	PD Dr. Wolfgang Britz				
Lecturers	PD Dr. Wolfgang Britz				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics		WPF	3.	
Learning objectives	With the completion of this course, students have acquired experience in development, application and scenario analysis with a large scale economic modelling system and a self-organized collaborative research project over several months.				
Key competences	Self organization of a complex IT and modelling project in group work; documentation of project and code; data management (download from portals, format changes, appropriate aggregation); analysis and presentation of quantiative results				
Learning content	The students develop several competing ideas for an economic problem to be analyzed with a market-scale economic simulation model as a joint project during the course. They decide which of the competing problems to analyze. They organize a time-line for the chosen project including tasks and deliverables and define sub-groups (e.g. related to project coordination, literature research, data acquisition, coding, reporting and documentation). They perform the planned project in sub-groups, meeet regularly to monitor project progress and revise their project as needed. They present their findings in a presentation with a follow-up discussion and write a report of about 30 pages which summarizes their project. The lecturer will moderate the process and help with technical issues.				
Language	English				
Recommended knowledge	Module APO-210 or equivalent knowledge				
Prerequisites					
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	Ü	Applied Modelling of Agricultural Systems	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749242029	Assignments (group work, check for working computer code, sufficient documentation, participation in simulation analysis)	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Special Project in Agricultural and Development Policy					
Code: APO-310 POS: 749142050		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS+SS
Coordinator	Prof. Dr. Thomas Heckelei				
Lecturers	Prof. Dr. Thomas Heckelei				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	3.
Learning objectives	This module allows for special research projects mutually agreed upon between student and coordinator. A clearly defined project “deliverable” will be submitted.				
Key competences	Scientific research and writing				
Learning content	Topic from the field of Agricultural and Development Policy. Specific topic and form of deliverable (paper, report, poster, documentation....) to be agreed upon between student and coordinator				
Language	English				
Recommended knowledge					
Prerequisites	Modules APO-110 and APO-120 have to be completed with simple average at or below 1.3 at the start of this module.				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	PS	Special project	5	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749142059	Term paper	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Seminar Policy Analysis					
Code: APO-300 POS: 749142030	Workload (h) 180	Credits (LP) 6	Duration 1	Term WS	
Coordinator	Prof. Dr. Thomas Heckelei				
Lecturers	Prof. Dr. Thomas Heckelei; Dr. Arnim Kuhn				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program		Mode	Study semester	
	M.Sc. Agricultural and Food Economics		WPF	3.	
Learning objectives	Students learn to apply the relevant theories to topical issues. They acquire knowledge and practice research techniques such as structuring research papers, literature search and referencing, and technical writing. Furthermore, they will gain hands-on experience in presentation of scientific results and the moderation of a discussion				
Key competences	Presentation, communication and writing skills				
Learning content	Topical issues on agricultural policy at European and international level will be analysed in written term papers.				
Language	English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	S	Policy Analysis	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749142039	Term paper	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Partial and General Equilibrium Modelling

Code: APO-250 POS: 749242060	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS

Coordinator	PD Dr. Wolfgang Britz		
Lecturers	PD Dr. Wolfgang Britz		
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften		
Usability	Course program	Mode	Study semester
	M.Sc. Agricultural and Food Economics	WPF	2.
Learning objectives	With the completion of this course, the students have acquired advanced competence in the concepts, formulation and interpretation of theory-based partial and general equilibrium models for policy analysis. Furthermore, they have been introduced to the General Algebraic Modelling System (GAMS) and are capable of independently modifying market-scale economic simulation models in this modelling language.		
Key competences	Conceptualization of market-scale problems, computer programming, quantitative analysis of policy instruments.		
Learning content	1) Introduction to GAMS 2) Profit and utility maximization in GAMS 3) Key elements of Multi-Commodity market models (MCM) 4) Flexible functional forms and parameter calibration, welfare analysis 5) Modelling international trade: point markets, spatial abritrage, Armington approach 6) Simulation exercises of a Social Accounting Matrix 7) The structure of a Social Accounting Matrix 8) Key elements of Computable General Equilibrium model (CGE) 9) Simulation exercises with selected CGE models		
Language	Englisch		
Recommended knowledge	Modul BAS-130 or equivalent		
Prerequisites			
Maximum number of students			

Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü		20 20	2,0 2,0	

Examination(s)	Code	Type of examination	Duration of examination	
	749242069 749242068	Written exam (1/2) Assignments (1/2)	during the semester	graded
Prerequisites for admission to the exam	none			not graded
Other				

Applied Trade Theory and Policy					
Code: APO-120 | ARTS-BE4 POS: 749242030	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS	

Coordinator	Prof. Dr. Thomas Heckelei		
Lecturers	Prof. Dr. Thomas Heckelei; Dr. Yaghoob Jafari		
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften		
Usability	Course program	Mode	Study semester
	M.Sc. Agricultural and Food Economics M.Sc. Agricultural Science and Resource Management in the Tropics and Subtropics	WPF WPF	2. 2.
Learning objectives	Students will gain an overview on classical and new economic theories of international trade explaining trade patterns between countries. Exercises and discussion of applications with emphasis in agricultural and food products will allow students to apply the theories and understand their limitations. Students will learn to work with academic trade literature and to assess the trade and welfare impacts of trade policies independently in the context of exercises.		
Key competences	Use and assessment of academic literature. Use of spreadsheet tools for quantitative modelling.		
Learning content	1) Why do we observe trade? Technological differences (Ricardian model), differences in factor endowments (Heckscher-Ohlin Model), increasing returns to scale 2) Who gains and who loses from trade? Gains from trade: the country perspective, gains from trade: the "within country" or agent perspective, deviations from the perfect market assumption 3) What are the trade and welfare impacts of specific policies? Import tariffs, import quotas, export subsidies, non-tariff measures 4) What are the gains of trade agreements? Multilateral trade agreements (WTO), regional trade agreements, regional versus multilateral agreements 5) How do multinational firms affect trade?		
Language	English		
Recommended knowledge	Module BAS-130|ARTS-AE6 or similar knowledge in microeconomics at master level		
Prerequisites			
Maximum number of students			

Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Applied Trade Theory and Policy (ratio V:Ü 3:1)	20	4,0	180

Examination(s)	Code	Type of examination	Duration of examination	
	749242039	Written exam	120 min	graded
Prerequisites for admission to the exam	none			not graded
Other				

Advanced Applied Econometrics					
Code: APO-230 POS: 749242010		Workload (h) 180	Credits (LP) 6	Duration 1	Term SS
Coordinator	Prof. Dr. Thomas Heckelei				
Lecturers	Prof. Dr. Silke Hüttel; Prof. Dr. Thomas Heckelei				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.
Learning objectives	Students will acquire competence in selecting and applying econometric methods to estimate quantitative economic models derived from economic theory. In addition they will learn to use and interpret outputs from econometric software packages.				
Key competences	Quantitative analysis; Competence in software use for quantitative analysis;				
Learning content	1) Review General Linear Model and OLS 2) Model specification (functional form and variable choice) 3) Seemingly Unrelated Regression, system estimation 4) Endogenous regressors (instrumental variable estimation, Generalised Method of Moments) 5) Panel data analysis 6) Limited dependent variable models (Maximum Likelihood) 7) Using prior information in estimation (Bayesian estimation)				
Language	English				
Recommended knowledge	Module BAS-110 or similar knowledge				
Prerequisites					
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Advanced Applied Econometrics (ratio V:Ü 3:1)	20	4,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749242019	Assignments	during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Development Economics

Code: APO-240 | ARTS-BE5 POS: 749242040	Workload (h) 180	Credits (LP) 6	Duration 1	Term SS

Coordinator	Prof. Dr. Joachim von Braun
Lecturers	Dr. Alisher Mirzabaev
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften

Usability	Course program	Mode	Study semester
	M.Sc. Agricultural and Food Economics M.Sc. Agricultural Science and Resource Management in the Tropics and Subtropics	WPF WPF	2. 2.

Learning objectives	With the successful completion of the course, students will have an overview on essential theories of economic development and understand their practical relevance for developing countries. Moreover, students will become familiar with the complex and multidimensional concepts of underdevelopment and poverty. They will learn to understand different development policies and evaluate them using a variety of quantitative economic techniques.
Key competences	Case study approach to analysis
Learning content	1) Economic Development: Definitions and measurement concepts 2) Partial theories of economic development (Historical School, The Stages of Economic Growth (Rostow),Theory of structural change and Two sector models (Lewis) 3) Complex theories of economic development (Neoclassical growth theory, Endogeneous growth theory: the role of social capital and new knowledge for the growth process, New institutional economics: the value- and rules based system of a society as an explanatory factor for economic development, 4) Political-economic explanatory approaches: The role of the state and the role of interest groups in the development process 5) From theory to its practical use; case studies 6) Quantitative Analysis of Development Policy
Language	English
Recommended knowledge	Module BAS-130 | ARTS-AE6 or similar knowledge
Prerequisites	
Maximum number of students	

Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Development Economics (ratio V:Ü 1:1)	20	4,0	180

Examination(s)	Code	Type of examination	Duration of examination	
	749242049	Written exam	120 min	graded
Prerequisites for admission to the exam	none			not graded
Other				

Evidence based agricultural policy impact analysis - causal effects and policy design					
Code: ABS-350 POS: 749112090		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS
Coordinator	Dr. Reinhard Uehleke				
Lecturers	Dr. Reinhard Uehleke; Dr. Stefan Seifert				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	3.
Learning objectives	Students · are familiar with voluntary (second pillar) agricultural policy measures, · acquire understanding of quasi-experimental and experimental evaluation methods, · are able to apply methods for causal inference in the context of agricultural policy analysis, · can retrieve the relevant causal estimators using the software R, · get an in-depth knowledge on experimental approaches to improve agricultural policy design.				
Key competences	Understanding of cause and effect paths of agricultural policy instruments; analytical thinking about causal impact in the context of environmental program evaluation; knowledge of quantitative techniques and software programming skills; ability to research, understand and reflect the current literature in this field.				
Learning content	Agri-environmental measures; potential outcome framework; methods for causal inference; experimental approaches to evaluate impacts of agricultural policy and design optimization.				
Language	English				
Recommended knowledge	BA-A E-3/02 – Quantitative Research Methods				
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü		30 30	1,0 1,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749112099	Written exam	90 min		graded
Prerequisites for admission to the exam	Assignment				not graded
Other					

Research Seminars

Research Seminar in Agribusiness					
Code: ABS-330 POS: 749313010		Workload (h) 180	Credits (LP) 6	Duration 2	Term SS+WS
Coordinator	Prof. Dr. Silke Hüttel				
Lecturers	Prof. Dr. Silke Hüttel; Dr. Reinhard Uehleke; Lora Tsvetanova				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.-3.
Learning objectives	After a successful completion of the course, the students have conceptualized their Master thesis including the description of the problem background with a preliminary literature review, the identification of the research question, the intended methodology, work plan and expected results.				
Key competences	Scientific conceptualizing and writing; scientific verbal communication				
Learning content	Literature studies, preparation of a research concept and a proposal, presentations of the state of the art in a thematic field which is close to the research question; scientific discussion				
Language	English				
Recommended knowledge					
Prerequisites	48LP				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	K*	Agribusiness Assignements, own studies	15 15	2,0	60 120
Examination(s)	Code	Type of examination	Duration of examination		
	749313019 749313018	Term paper (2/3) Presentation (1/3)	during the semester during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Research Seminar in Resource and Environmental Economics					
Code: ENV-330 POS: 749323010		Workload (h) 180	Credits (LP) 6	Duration 2	Term SS+WS
Coordinator	Prof. Dr. Karin Holm-Müller				
Lecturers	Prof. Dr. Karin Holm-Müller; Prof. Dr. Jan Börner				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.-3.
Learning objectives	After a successful completion of the course, the students have conceptualized their Master thesis including the description of the problem background with a preliminary literature review, the identification of the research question, the intended methodology, work plan and expected results.				
Key competences	Scientific conceptualizing and writing; scientific verbal communication				
Learning content	Literature studies, preparation of a research concept and a proposal, presentations of the state of the art in a thematic field which is close to the research question; scientific discussion				
Language	English				
Recommended knowledge					
Prerequisites	48LP				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	K*	Resource and Environmental Economics	15	1,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749323019 749323018	Term paper (2/3) Presentation (1/3)	during the semester during the semester		graded
Prerequisites for admission to the exam	none				not graded
Other					

Research Seminar in Market and Consumer Research					
Code: MAC-330 POS: 749333010		Workload (h) 180	Credits (LP) 6	Duration 2	Term SS+WS
Coordinator	Prof. Dr. Monika Hartmann				
Lecturers	Prof. Dr. Monika Hartmann				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.-3.
Learning objectives	After a successful completion of the course, the students have conceptualized their Master thesis including the description of the problem background with a preliminary literature review, the identification of the research question, the intended methodology, work plan and expected results.				
Key competences	Scientific conceptualizing and writing; scientific verbal communication				
Learning content	Literature studies, preparation of a research concept and a proposal, presentations of the state of the art in a thematic field which is close to the research question; scientific discussion				
Language	English				
Recommended knowledge					
Prerequisites	48LP				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	K*	Market and Consumer Research	15	2,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749333019 749333018	Term paper (2/3) Presentation (1/3)	during the semester during the semester		graded
Prerequisites for admission to the exam	regular participation				not graded
Other					

Research Seminar in Agricultural and Development Policy					
Code: APO-330 POS: 749343010		Workload (h) 180	Credits (LP) 6	Duration 2	Term SS+WS
Coordinator	Prof. Dr. Thomas Heckelei				
Lecturers	Prof. Dr. Thomas Heckelei; Dr. Yaghoob Jafari				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			WPF	2.-3.
Learning objectives	After a successful completion of the course, the students have conceptualized their Master thesis including the description of the problem background with a preliminary literature review, the identification of the research question, the intended methodology, work plan and expected results.				
Key competences	Scientific conceptualizing and writing; scientific verbal communication				
Learning content	Literature studies, preparation of a research concept and a proposal, presentations of the state of the art in a thematic field which is close to the research question; scientific discussion				
Language	English				
Recommended knowledge					
Prerequisites	48LP				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	K*	Agricultural and Development Policy	15	2,0	180
Examination(s)	Code	Type of examination	Duration of examination		
	749343019 749343018	Term paper (2/3) Presentation (1/3)	during the semester during the semester		graded
Prerequisites for admission to the exam	regular participation				not graded
Other					

Optional Modules

Internship in Agricultural and Food Economics					
Code: ILR-01 POS: 749301010		Workload (h) 180	Credits (LP) 6	Duration 1	Term WS/SS
Coordinator	Dr. Manuela Meraner				
Lecturers	Dr. Manuela Meraner				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			fWPF	1.-3.
Learning objectives	The objective of the internship is to put the students academic skills into practice and further develop professional skills. Aditionally students broaden their scope for future work by participation in a professional organisation in the field of agricultural and food economics.				
Key competences	Transfer of theoretical knowledge into the professional work environment, capability to present experiences, aquired knowledge and skills, enhanced reflexion capability on own expectations and experiences				
Learning content	Students learn to apply knowledge and skills acquired during the course of study, to execute certain professional skills better and to work independently and expand the professional network.The internship inlcudes a minimum of four weeks of full time work in a relevant field outside the university. It can be performed at research institutes, private companies or governmental and non-governmental institutions. The internship is completed by an internship report and a presentation in class.				
Language	German/English				
Recommended knowledge					
Prerequisites	none				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	P	Internship in agricultural and food economics			160
Examination(s)	Code	Type of examination	Duration of examination		
		none			
Prerequisites for admission to the exam	Internship report, presentation in class				not graded
Other	* the internship must be arranged by the students and authorized by the internship coordinator prior to the starting date * only internships completed after award of the Bsc. degree can be considered				

Masterthesis

Masterthesis					
Code: M-401 POS: 8900		Workload (h) 900	Credits (LP) 30	Duration 1	Term WS/SS
Coordinator					
Lecturers	All lecturers of the teaching units				
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften				
Usability	Course program			Mode	Study semester
	M.Sc. Agricultural and Food Economics			P	4.
Learning objectives	Independent work on a research project in the field of the teaching units within a given time frame. Details are specified in the examination regulation and examination organization regulation (available only in German).				
Key competences	Project work				
Learning content	Task of Masterthesis				
Language	German/English				
Recommended knowledge					
Prerequisites	Enregistered in either ABS-330 or ENV-330 or MAC-330 or APO-330 depending on the teaching unit of the first supervisor and at least 60 LP				
Maximum number of students					
Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	P		1		900
Examination(s)	Code	Type of examination	Duration of examination		
					graded
Prerequisites for admission to the exam					not graded
Other	The processing time lasts 6 months and the earliest delivery of the thesis is possible 2 months after the registration at the examination office.				