UNIVERSITÄT HOHENHEIM FAKULTÄT AGRARWISSENSCHAFTEN



Curriculum

Master of Science Environmental Protection and Agricultural Food Production



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Preamble

This curriculum provides applicants and students as well as teaching and administrative staff with comprehensive information about the M.Sc. programme "Environmental Protection and Agricultural Food Production". It contains information about the course structure, summarises the most important exam regulations and admission requirements.

The information presented reflects the current situation. Titles and contents of compulsory and optional modules are sometimes subject to change. Due to administrative reasons such changes can only be considered in printed materials with delay. For this reason all information is supplied without liability.

If in doubt, please refer to the coordinator of the programme (envirofood@uni-hohenheim.de) to obtain up-to-date information. For up-to-date module descriptions please refer to the web-pages at www.uni-hohenheim.de/modulkatalog. Time schedules and lecture halls of all courses are displayed in the Course Catalogue of the University of Hohenheim, available at the beginning of each semester at the local book store or online on the university's homepage: www.uni-hohenheim.de.

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The Master Programme Environmental Protection and Agricultural Food Production (EnviroFood)

Programme Objectives	The world's population increases by 80 million each year. Due to this con- tinuous growth in population and changing living habits the demand for food increases as well. Producing these enormous amounts of food strains the world's natural resources to their limit. An increasing use of technical means of production reinforces this effect. Food production will be further intensified with the globalization of markets speeding up this process. One of this century's major challenges is to make this process as environmen- tally friendly, socially acceptable and economically effective, i.e. sustain- able as possible. The concept of sustainability includes recycling of waste. In view of potential damage to the environment this has to be done with utmost care. Complex problems arise on the periphery of densely popu- lated areas where competing forms of land use (settlement, recreation, re- cycling) have to be balanced.
	EnviroFood is a transdisciplinary oriented degree course. Environmental

EnviroFood is a transdisciplinary oriented degree course. Environmental systems analysis does not only have to consider scientific and technical but also socio-economic, political and administrative aspects. Our graduates will have acquired the necessary skills to analyse eco-systematic, economic, political and administrative interrelations beyond individual subject borders and develop integrative problem solutions. These skills will enable them to contribute to securing food quantity and quality by sustainably using natural resources and thus preventing damage to the environment.

Programme Design EnviroFood is a two-year degree course with a workload of 80 SWS (weekly hours per semester). The first 3 semesters cover a total of 60 SWS (lectures and seminars). During the final semester students work on their Master thesis. Performance is examined through continuous assessment. Exams are marked according to the European Credit Transfer System (ECTS).

In total 15 modules have to be completed successfully (7 compulsory, 3 semi-elective and 5 elective modules).

	1. Semester	2. Semester	3. Semester	4. Semester
6 Credits	4402-440 (Jungbluth) Agricultural Produc- tion and Residues/ <u>or</u> 1503-410 (N.N.) Food Technology and Residues	Semi-elective module	Elective module	
6 Credits	3202-410 (Fangeier) Ecotoxicology and Environmental Analytics	3103-440 (Streck) Spatial Data Analy- sis with GIS	Elective module	sis ()
6 Credits	3103-440 (Streck) Matter Cycling in Agro-Ecosystems	Semi-elective module	Elective module	laster The (30 credits
6 Credits	4602-460 (Böhm) Environmental Micro- biology, Parasitology and Microbial Ecol.	3103-460 (Streck) Environmental Science Project	Elective module	2
6 Credits	4201-440 (Grethe) Economics and Envi- ronmental Policy	Semi-elective module	Elective module	

Modules

Most modules are offered as blocked courses lasting three and a half weeks (B1 to B5 = winter semester, B6 – B10 = summer). Some are not blocked and thus last the full length of the semester. Blocked modules will usually take place Monday to Friday from 2 p.m. to 6 p.m. Non-blocked modules will usually be taught in the morning. This shall enable students to combine blocked and unblocked modules. (Because of the limited number of lecture rooms, this aim can unfortunately not always be kept.) While working out your personal time-table, please be aware of the following facts: the morning is assigned for the personal preparation of the blocked modules too and the block periods B4, B5 and B9, B10 will have a relevant overlapping with the first examination period of the unblocked modules!

The seven compulsory modules are:

Sem		Modules	Block	Exam	Professor
1a)	4402-440	Agricultural Production and Residues	B 1	oral	Jungbluth
1b)	1503-410	Food Technology and Residues	B1	written	N.N.
1	4201-440	Economics and Environ- mental Policy	(WS)	written	Grethe
1	3202-410	Ecotoxicology and Envi- ronmental Analytics	B 2	written	Fangmeier
1	3103-440	Matter Cycling in Agroeco- systems	B 3	written	Streck
1	4602-460	Environmental Microbiol- ogy, Parasitology and Mi- crobial Ecology	B 4	written	Böhm
2	3103-440	Spatial Data Analysis with GIS	B 7	written	Streck
2	3103-460	Environmental Science Project	B 9	oral + ICA	Streck

(WS) = Offered unblocked in each winter semester.

(SS) = Offered unblocked in each summer semester.

ICA = In-course-assessment

For students with an academic background in food technology or nutrition sciences the module "Agricultural Production and Residues" is compulsory. Students with an academic background in agricultural or environmental sciences are obliged to take the module "Food Technology and Residues".

The module "Environmental Science Project" sets the frame for small groups of students (2-3) to organize themselves and work on a practical problem of environmental sciences. The aim is to overcome disciplinary boundaries.

Each module corresponds to a workload of 4 SWS (weekly contact hours per semester), which is 56 contact hours per module, and in addition at least the same time for preparation at home, summing up to a total workload of about 140-180 hours for one module. It may consist of different forms of teaching (e.g. seminar, lecture, practical, excursions).

Three **semi-elective modules** have to be selected from the catalogue of elective modules stated in the exam regulations (see listing below). Five **elective modules** can be chosen from the complete catalogue of the Faculty of Agriculture's master courses modules. These options allow students to create their own study profile according to their career plans. Students will be advised on which modules are suitable for their individual profiles. A selection form with detailed instructions will be distributed among the stu-

dents at the end of the first semester. At request, lectures/seminars offered in other degree courses (<u>www.uni-hohenheim.de/</u>modulkatalog) may be selected as well, provided they have a modular structure, are continuously assessed and fit into the study profile.

Catalogue	of	semi-elective	modules:
outuroguo	U 1		moduloo.

Sem		Modules	Block	Exam	Professor
2	4303-470	Gender, Nutrition, and Right	(SS)	written	Bellows
	4 30	to Food Gender and Food Stud-		+ ICA	
		I ICS			
2	4303-480	Global Nutrition	(SS)	written	Bellows
2	3102-440	Environmental Pollution and	B 06	oral	Kandeler
		Soil Organisms		+ICA	
2	3802-420	Biodiversity, Plant and Ani-	B 08	written	Sauerborn
		mal Genetic Resources			
2	4403-550	Postharvest Technology of	B 08	written	Müller
		Food and Biobased Prod.			
2	4403-470	Renewable Energy for	B 09	written	Müller
		Rural Areas			
3	3202-430	Air Pollution and Air Pollu-	B 01	written	Fangmeier
		tion Control			-
3	3202-420	Global Change Issues	B 04	oral	Fangmeier
3	3003-410	Food Safety and Quality	B 05	oral	Schöne
		Chains		+ICA	
3	3004-410	Inland Water Ecosystems	B 05	written	Tremp
3	1201-410	Remote Sensing	(WS)	written	Wulfmeyer
		-		or oral	_
3	4406-410	Waste Management and	(WS)	written	Kranert
		Waste Techniques			
3	3802-410	Ecology and Agroecosys-	B 02	written	Sauerborn
		tems			
3	4403-530	Natural Resource Man-	B 03	written	Müller
		agement			

(WS) = Offered unblocked in each winter semester.

(SS) = Offered unblocked in each summer semester.

ICA = In-course-assessment

Course Catalogue The Course Catalogue of University of Hohenheim is available at the beginning of each semester online at the university's homepage: <u>www.uni-hohenheim.de</u>. By the name of the courses of the modules (see page 10 and following pages), times and lecture rooms of all courses can be found inside the Course Catalogue of the University of Hohenheim, and a personal time-table can be worked out. Mind: several non-blocked modules within that catalogue consist of more than one course. All modules, their courses and responsible lecturers, course contents, and literature are described in the catalogue of course contents.

Course Contents For the contents of all modules see: <u>www.uni</u>-hohenheim.de/modulkatalog

Credit Point System With each completed module the students earn 6 credits for the workload associated with each module. The M.Sc. programme has a requirement of 120 credits in total. The examination result is expressed in grade points. The highest score is 4.0. A score of 1.0 is required for passing.

Credits are multiplied with the grade points achieved to derive the number of credit points obtained. In order to calculate the grade point average, the total number of credits collected divides the total number of credit points obtained in all modules. The credit point system used in the M.Sc. programme is fully compatible with the European Credit Transfer System, ECTS.

	Grade- points and gradegrade-pointsgrade-pointsgrade-pointsgrade-pointsvery goodA4,0A-3,7goodB+3,3B3,0B-2,7mediumC+2,3C2,0C-1,7passD+1,3D1,0failF0		
	grade	es	grade-points
excellent performance	very good	А	4,0
		A-	3,7
performance considerably exceed-	good	B+	3,3
ing the above average standard		В	3,0
		B-	2,7
performance meeting the average	medium	C+	2,3
standard		С	2,0
		C-	1,7
performance meeting minimum	pass	D+	1,3
criteria		D	1,0
performance not meeting minimum criteria	fail	F	0

Study and Examination Plan Students have to seek advice of one of the mentors of the programme on which elective modules are suitable for their individual profile. During the first semester the candidate must have the study plan approved in which all chosen modules are mentioned. The study plan has to be signed by a mentor before it is handed in to the examination office. Exchanges of modules need to be approved by the responsible mentor. After examination a module cannot be dropped any more.

Examinations Performance is examined through continuous assessment. Each module is examined upon completion. The examinations of the blocked modules are held at the end of the respective block period; those for the unblocked modules are held in the two examination periods that follow the lectures. Students will be registered by signature automatically for the compulsory modules offered in the first and second semester. The registration for elective modules will take place at the end of the first semester through filling in an official form. Withdrawal on the first trial of each module's examination will be postponed to the next possible examination period.

The claim for examination expires if:

- a minimum of six modules has not been passed by the end of the second semester at the latest
- an examination of the compulsory modules has not been passed by the end of the third semester at the latest
- an examination of the elective modules has not been passed by the end of the sixth semester at the latest
- in one of the 15 modules an exam has to be repeated more than two times

The claim for examinations does not expire if the candidate cannot be held responsible for the failure to comply with the deadline. The students themselves are responsible for complying with these examination deadlines as well as all other regulations given in the examination regulations. The examination regulations and a leaflet on registration (see: https://pruefungs amt.uni-hohenheim.de) are distributed by the examination office.

Please mind that plagiarism, that means the take-over of text or phrases in a written examination (even within a partial performance) without quoting them accordingly, will be marked as attempt of deception and the rofesstive examination performance is to be graded "fail" (F; 0 grade-points).

- **Exam Repetition** In case of failure the examination office will inform the student via mail. Normally, the letter includes the repetition date. In some cases the date for repetition has not been pointed out at the time of informing the students. Students are responsible themselves to check with the responsible rofessor or the examination office about dates for repeater exams. Usually repeater exams for blocked modules will be scheduled by the responsible professor within the same semester. Repeater exams in lectures will usually automatically be scheduled for the next examination period.
- **Master Thesis** The master thesis shall show that the candidate is able to work independently on a problem in the field of "Environmental Protection and Agricultural Food Production" within a fixed period of time by applying scientific methods. The exam consists of a written (thesis) and an oral (defense) part. The candidate has to defend the essential arguments, results and methods of the thesis in a colloquium of 30-45 minutes. The written part of the master thesis has to be completed within a period of six months. It is usually written during the fourth semester. Students should work on a practical problem closely cooperating with companies or institutions outside the university.

Thesis work includes a literature review, new and original data derived from field work, a period of writing-up and, finally, a presentation. This work can be carried out either at Hohenheim University or at one of the various partner universities.

Important information concerning the topic of the master thesis: According to the examination regulations the candidate may choose a topic of a subject field of compulsory or elective modules, which he/she attended. The topic cannot be chosen of a subject field of an additional module.

- **Quality Assurance** The quality of courses and modules is evaluated in a two year rotation by the students of all study programmes. The evaluation sheets are distributed and evaluated by the Faculty of Agricultural Sciences and the results are sent back to the lecturers in an **anonymous** format. The lecturers are asked to discuss the results with the students at the end of their courses.
- Academic calendar In the winter semester (WS) courses usually begin in week 42 and end in week 5 or 6 of the new year. In the summer semester (SS) courses begin in week 14 or 15 and end in week 28 or 29. Blocked modules of the WS usually begin in week 42, those of the SS in week 13 or 14. In each semester for unblocked modules the lecture period is followed by an examination period of three weeks. This examination period of the unblocked modules usually corresponds with the last block period of each semester.
- **Teaching Staff & Mentoring** Most modules are organised and taught by professors of the University of Hohenheim, who have broad experience in international research. Students also benefit from Hohenheim's active links with academic partners worldwide. Guest speakers from partner universities as well as research, development and policy institutions cover additional topics, and thus enrich the curriculum with special fields of expertise.

Mentors will advise students on designing a coherent individual study concept. The study and examination plan has to be signed by a mentor before it is handed in to the examination office. The following scientists have been appointed as mentors for the current study profiles:

- Crop Farming & Landscape Ecology Prof. Dr. Fangmeier, Institute of Landscape and Plant Ecology (320b)
- Soil, Air and Water Prof. Dr. Streck, Institute of Soil Science (310d)

	 Livestock & Public Health Prof. Dr. Hölzle, Institute of Environmental and Animal Hygiene and Veterinary Medicine (460) Technology & Engineering Prof. Dr. Jungbluth, Institute of Agricultural Engineering (440)
Study abroad	Students are encouraged to spend one semester in the second year at a partner university abroad, to gain additional experience and further strengthen their individual profile. Our credit point system is intended to facilitate the mutual acceptance of courses attended at different universities. Assessment is based on the European Credit Transfer System (ECTS), which facilitates such kind of international mobility. German students are strongly advised to spend a semester abroad. Particularly, the third semester is suitable for integrated study abroad. Students will preferably spend this time at one of the partner universities of the Euro League for Life Sciences: Universität für Bodenkultur Wien (BOKU), Austria; Royal Veterinary and Agricultural University (KVL), Denmark; Swedish University of Agricultural Sciences (SLU), Sweden; Wageningen University, Netherlands; Czech University of Agriculture (CUA), Czech Republic, Warsaw Agricultural University (SGGW), Poland. On the basis of an agreement on quality standards the members of the Euro League for Life Sciences have agreed to mutually recognize study achievements. Quantitative parity of study achievements is based on the European Credit Transfer System (ECTS). Students may also request to spend the semester at universities other than mentioned above.
Degree	After successful completion of all modules as well as the thesis, the stu- dent is awarded the degree "Master of Science" (M.Sc.). This degree enti- tles the student to continuing with a Ph.D./doctoral programme if the total grade is above average.
Responsible Scientist	Prof. Dr. Thilo Streck Biogeographics
Professors in Charge	Prof. Dr. Streck, Institute of Soil Science (310d)
Modules	Prof. Dr. Fangmeier, Institute of Landscape and Plant Ecology (320b)
	Prof. Dr. Grethe, Institute of Agricultural Policy and Agricultural Markets (420a)
	Prof. Dr. Hölzle, Institute of Environmental and Animal Hygiene and Vet- erinary Medicine (460)
	Prof. Dr. Jungbluth, Institute of Agricultural Engineering (440)
	Prof. Dr.Becker, T., Institute for Agricultural Policy and Agricultural Markets (420)
	Prof. Dr. Kahlus, Food Process Engineering (150c)
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In the following table all modules offered within the EnviroFood-Master and the corresponding courses are shown. The modules are sorted by module-code. (SWS = average hours per week per semester)

Module- Code	Name of Module	Sem.	Module obligati- on	Responsible Professor	Lan- guage	Module- Duration	Exam	LV- Code	Courses of the Module	Lecturer(s)	Туре	SWS
1201-410	Remote Sensing	3	Semi- elective	Wulfmeyer	engl.	1 Sem.	written or oral	1201-412 1201-411	 Remote Sensing tu- torials Remote Sensing lec- tures 	 Dr. rer. nat. And- reas Behrendt, Prof. Dr. Volker Wulfmeyer Dr. rer. nat. And- reas Behrendt, Prof. Dr. Volker Wulfmeyer 	 Exercise Lecture 	• 2 • 2
1503-410	Food Technology and Residues	1	Com- pulsory	Kohlus	engl.	3,5 Weeks (B01)	oral	1503-412 1503-411	 Production- Integrated Environ- mental Protection in the Food Production Industry Treatment of Water, Wastewater and Waste in Food Tech- nology 	 N. N. DiplIng. Peter Gschwind, N. N., Prof. Dr. Volker Wulfmeyer 	 Lecture Lecture 	• 2 • 2
3003-410	Food Safety and Quality Chains	3	Semi- elective	Schöne	engl.	3,5 Weeks (B05)	oral with in course as- sessment	3003-411	 Food Safety and Quality Chains 	 PD Dr. Friedrich Schöne 	 Lecture 	• 4
3004-410	Inland Water Ecosys- tems	3	Semi- elective	Tremp	engl.	3,5 Weeks (B05)	written	3004-411	 Inland Water Eco- systems 	 PD Dr. Horst Tremp 	 Lecture with Exer- cise 	• 4
3102-440	Environmental Pollu- tion and Soil Organ- isms	2	Semi- elective	Kandeler	engl.	3,5 Weeks (B06)	oral, in- course as- sessment	3102-443 3102-441 3102- 442/3202 -223	 Course on Methods in Soil Biology Environmental Ge- omicrobiology Methods in Soil Bio- logy 	 Prof. Dr. Ellen Kandeler, Dr. Christian Poll Prof. Dr. Ellen Kandeler Prof. Dr. Ellen Kandeler 	Exercise Lecture Lecture	• 1 • 2 • 1
3103-440	Matter Cycling in Agroecosystems	1	Com- pulsory	Streck	engl.	3,5 Weeks (B03)	written	3103-441	 Matter Cycling in Agroecosystems 	 Prof. Dr. Thilo Streck 	 Lecture with Exer- cise 	• 4
3103-450	Spatial Data Analysis with GIS	2	Com- pulsory	Streck	engl.	3,5 Weeks	written	3103-451 3103-452	 Spatial Data Analy- sis with GIS 	 Prof. Dr. Thilo Streck 	LectureExercise	• 2 • 2

Module- Code	Name of Module	Sem.	Module obligati-	Responsible Professor	Lan- guage	Module- Duration	Exam	LV- Code	Courses of the Module	Lecturer(s)	Туре	SWS
3103-460	Environmental Scien- ce Project	2	on Com- pulsory	Streck	engl.	(B07) 3,5 Weeks (B09)	oral (70%) with in- course as- sessment (30%)	3103-461	 Working with Spatial Data Using Ge- ographical Informati- on Systems Environmental Science Project 	 Prof. Dr. Thilo Streck Prof. Dr. Thilo Streck 	 Lecture with Semi- nar, Ex- cursion and La- 	• 4
3202-410	Ecotoxicology and Environmental Analy- tics	1	Com- pulsory	Fangmeier	engl.	3,5 Weeks (B02)	written	3202-411	 Ecotoxicology and Environmental Ana- lytics 	 Prof. Dr. Andreas Fangmeier 	 Lecture with Se- minar 	• 4
3202-420	Global Change Is- sues	3	Semi- elective	Fangmeier	engl.	3,5 Weeks (B04)	written	3202-423 3202-421 3202-422	 Experiments on Global Change Introduction to Global Change Seminar on Global Change 	 Prof. Dr. Andreas Fangmeier, Dr. Jürgen Franzaring, Dr. Petra Högy Prof. Dr. Andreas Fangmeier, Dr. Jürgen Franzaring, Dr. Petra Högy, PD Dr. Andreas Klumpp Prof. Dr. Andreas Fangmeier, Dr. Jürgen Franzaring, Dr. Petra Högy 	 Lab Lecture Seminar 	• 1 • 2 • 1
3202-430	Air Pollution and Air Pollution Control	3	Semi- elective	Fangmeier	engl.	3,5 Weeks (B01)	written	3202-431 3202-432 3202-433	 Air Pollutants Laboratory Course on Selected Air Pol- lutants Seminar on Air Pol- lution and Air Pollu- tion Control 	 Prof. Dr. Andreas Fangmeier Prof. Dr. Andreas Fangmeier Prof. Dr. Andreas Fangmeier 	 Lecture Exercise Seminar 	• 2 • 1 • 1
3802-410	Ecology and Agroe- cosystems	3	Semi- elective	Sauerborn	engl.	3,5 Weeks (B02)	written	3802-411	 Ecology and Agroe- cosystems 	 Prof. Dr. Reinhard Böcker, PD Dr. Konrad Martin, Prof. Dr. Joachim 	 Lecture with Se- minar and Excursion 	• 4

Module- Code	Name of Module	Sem.	Module obligati-	Responsible Professor	Lan- guage	Module- Duration	Exam	LV- Code	Courses of the	Lecturer(s)	Туре	SWS
0000			on		0 0			0000	Woulle			
3802-420	Biodiversity, Plant and Animal Genetic Resources	2	Semi- elective	Sauerborn	engl.	3,5 Weeks (B08)	written	3802-421	 Biodiversity, Plant, and Animal Genetic Resources 	 Sauerborn PD Dr. Konrad Martin, Prof. Dr. Joachim Sauer- born, Prof. Dr. Karl Schmid, Prof. Dr. Anne Valle Zárate 	 Lecture with Se- minar, Ex- cursion and La- bexercise 	• 4
4201-440	Economics and Envi- ronmental Policy	1	Com- pulsory	Grethe	engl.	1 Sem.	written	4201-441 4201-442	 Basic Microecono- mics Environmental Policy 	 Prof. Dr. Harald Grethe Prof. Dr. Christian Lippert 	LectureLecture	• 2 • 2
4303-470	Gender, Nutrition, and Right to Food	2	Semi- elective	Bellows	engl.	1 Sem.	written (es- say 70%) with in- course as- sessment (presenta- tion 30%)	4303-471	 Gender, Nutrition, and Right to Food 	 Prof. Dr. Anne Camilla Bellows 	 Seminar 	• 4
4303-480	Global Nutrition (vor- her: International Nutrition 4303-450)	2	Semi- elective	Bellows	engl.	1 Sem.	written	4303-481	 Global Nutrition (formerly: Internatio- nal Nutrition:4303- 451) 	 Prof. Dr. Anne Camilla Bellows, Prof. Dr. Hans Konrad Biesalski, Dr. Veronika Scherbaum 	Lecture	• 4
4402-440	Agricultural Production and Residues	1	Com- pulsory	Jungbluth	engl.	3,5 Weeks (B01)	oral	4402-443 4402-441 4402-442 4402-444	 Basics of Animal Nutrition Basics of Crop Pro- duction Systems Basics of Mechani- zation in Crop Pro- duction Livestock Production Systems 	 Prof. Dr. Rainer Mosenthin Prof. Dr. Wilhelm Claupein, Prof. Dr. Joachim Sauer- born Prof. Dr. Karlheinz Köller Prof. Dr. Werner Bessei, Prof. Dr. Thomas Jungbluth 	 Lecture with Ex- cursion Lecture with Ex- cursion Lecture with Ex- cursion Lecture with Ex- cursion 	• 1 • 1 • 1
4403-470	Renewable Energy for Rural Areas	2	Semi- elective	Müller	engl.	3,5 Weeks	written	4403-471	 Renewable Energy for Rural Areas 	 Prof. Dr. Joachim Müller, Prof. Dr. 	 Lecture with Ex- 	• 4

Module- Code	Name of Module	Sem.	Module obligati- on	Responsible Professor	Lan- guage	Module- Duration	Exam	LV- Code	Courses of the Module	Lecturer(s)	Туре	SWS
			-			(B09)				Manfred Zeller	cursion and Lab	
4403-530	Natural Resource Management (vorher: Water and Soil as Resources 4403-490)	3	Semi- elective	Müller	engl.	3,5 Weeks (B03)	written	4403-531	 Natural Resource Management (Water and Soil as Resour- ces: 4403-491) 	 Prof. Dr. Joachim Müller, Prof. Dr. Karl Stahr 	 Lecture with Exer- cise and Seminar 	• 4
4403-550	Post-Harvest Tech- nology of Food and Bio-Based Products (vorher: Postharvest Technology and Food Quality 4403-460)	2	Semi- elective	Müller	engl.	3,5 Weeks (B08)	written	4403-551	 Post-Harvest Tech- nology of Food and Bio-Based Products (formerly: Posthar- vest Technology and Food Quality 4403- 461) 	 Prof. Dr. Reinhold Carle, Prof. Dr. Joachim Müller, Dr. Sybille Neid- hart, Prof. Dr. Claus Zebitz 	 Lecture with Ex- cursion and Lab 	• 4
4406-410	Waste Management and Waste Tech- niques	3	Semi- elective	Kranert	engl.	1 Sem.	written	4406-411	 Waste Management and Waste Techni- ques 	 Herr Detlef Clauß, Herr Matthias Rapf 	 Lecture 	• 4
4602-460	Environmental Micro- biology, Parasitology and Microbial Ecol- ogy	1	Com- pulsory	Hölzle	engl.	3,5 Weeks (B04)	written	4602-461	 Environmental Mic- robiology, Parasito- logy and Microbial Ecology 	 Herr Engesser, Prof. Dr. Ludwig Hölzle, Prof. Dr. Ellen Kandeler, Prof. Dr. Andreas Kuhn, Prof. Dr. Ute Mackenstedt 	Lecture	• 4

Block Periods 2010/2011

	Block	Period
: Semester	1	18.10. – 10.11.2010
	2	11.11. – 03.12.2010
	3	06.12 12.01.2011
inte	4	13.01 07.02.2011
M	5	08.02 02.03.2011
ter	6	04.04 28.04.2011
mes	7	29.04 23.05.2011
Summer Se	8	24.05 17.06.2011
	9	20.06 13.07.2011
	10	14.07 05.08.2011

Important Advice for the Personal Time-Table: Blocked modules will usually take place Monday to Friday from 2 p.m. to 6 p.m. Non-blocked modules will usually be taught in the morning. This shall enable students to combine blocked and unblocked modules. (Because of the limited number of lecture rooms, this aim can unfortunately not always be kept.) While working out your personal time-table, please be aware of the following facts: the morning is assigned for the personal preparation of the blocked modules too and the block periods B4, B5 and B9, B10 will have a relevant overlapping with the first examination period of the unblocked modules!

Please register 3 weeks before the respective block at the responsible institute!

Blocked Modules Winter Semester 2010/11

			CUIVE			
Period	1 (17 days)	2 (17 days)	3 (17 days)	4 (17 days)	5 (17 days)	by Arrangement
Study Course	18.10 10.11.2010	11.11 03.12.2010	06.12 12.01.2011	13.01 07.02.2011	08.02 02.03.2011	by Anangement
M. Sc. AgEcon	● 4904-460 (Berger) Farm System Modelling		 4902-410 (Brockmeier) Applied Econometrics 	 4301-410 (Hoffmann) Knowledge and Innova- tion Management 	 4201-420 (Grethe) Advanced Policy Analysis Modelling 	
	4901-420 (Zeller) Poverty and Development Strategies		 4301-420 (Hoffmann) Organisational Develop- ment 	● 4904-430 (Berger) Land Use Economics		
M. Sc. AgriTropics	 4901-420 (Zeller) Poverty and Development Strategies 	● 3802-410 (Sauerborn) Ecology and Agroecosys- tems	 4403-530 (Müller, J.) Natural Resource Management 	● 3801-420 (Cadisch) Crop Production Systems	• 4801-450 (Valle Zárate) Livestock Pro- duction Systems	→-4303-490-(Bellows) Ethics of Food and Nutri- tion Security
	O 4301-430 (Hoffmann) Rural Communication and Extension	○ 4904-450 (Berger) Farm and Project Evaluation	O 4901-470 (Zeller) Quantitative Methods in Economics	 3803-450 (Asch) Crop Production Affecting the Hydrological Cycle 	O 3405-410 (Zikeli) Organic Farming in the Tropics and Subtropics	(unblocked!)
	O 3101-410 (Stahr) Tropical Soils and Land Evaluation	 ○ 4802-410 (Focken) In- tensive Aquacult. Systems ○ 3803-440 (Asch) Signal- 	€ 3301-430 (Müller, T.) Plant Nutrition and Soil Chemistry	○ 3501-440 (Melchinger) Plant Breeding and Seed Science in the T+S	O 4802-420 (N.N.) Phys. and Ecol. Aspects of Animal Nutrition T+S	
		ling in Plants under Stress → 4801-420 (Valle Zárate) Promotion of Livestock	O 4801-430 (Valle Zárate) Livestock Breed- ing Programmes			
M. Sc. Crop Sciences		 3803-440 (Asch) Signalling in Plants under Stress 	→ 3301-450 (Müller, T.) Fertilisation and Appl. Soil Chemistr. unblocked!	 3501-460 (Melching.) Planning. of Breed. Prog. (or after B5) 		● 3301-460 (Müller, T.) Exercises in Plant Nutri- tion (after B5)
M. Sc. EnviroFood	VB● 4402-440 (Jung- bluth) Agricultural Pro- duction and Residues VB● 1503-410 (Kohlus)	 3202-410 (Fangmeier) Ecotoxicology and Envi- ronmental Analytics 	 3103-440 (Streck) Matter Cycling in Agro- Ecosystems 4303-450 (Bellows) International Nutrition 	 4602-460 (Böhm) Environmental Microbiology, Parasitology 3202-420 (Fangmeier) Global Change Issues 	 € 3004-410 (Tremp) Inland Water Ecosys- tems € 3003-410 (Schöne) E and Safaty and Quality 	€ 3301-460 (Müller, T.)
	 Residues 3202-430 (Fangmeier) Air Pollution and Air Pollution Control 		unblocked! € 4403-530 (Müller, J.) Natural Resource Man- agement		Chains (February 1 -11 th , 6 hours per day)	tion (after B5)
M. Sc. EnvEuro (first year and	O 4402-440 (Jungbluth) Agricultural Production and Residues	O 3202-410 (Fangmeier) Ecotoxicology and Envi- ronmental Analytics	 3103-440 (Streck) Matter Cycling in Agro- Ecosystems 	 3803-450 (Asch) Crop Production Affecting the Hydrological Cycle 	● 3004-410 (Tremp) Inland Water Ecosys- tems	
elective modules of second year)	O 3202-430 (Fangmeier) Air Pollution and Air Pollu- tion Control		→ 3301-450 (Müller, T.) Fertilisation and Appl. Soil Chem. unblocked!	O 4602-460 (Hölzle) En- vironmental Microbiology, Parasitology		
	○ 4904-460 (Berger) Farm System Modelling		○ 4403-530 (Müller, J.) Nat. Resource Managem.	 3202-420 (Fangmeier) Global Change Issues 4904-430 (Berger) 		
	verty and Dev. Strategies			Land Use Economics		

Blocked Modules Summer Semester 2011

Deviad	6 (17 days)	7 (17 days)	8 (17 day	rs)	9 (17 days	6)	10 (17 days)	hu Americani
Study Course	04.04 28.04.2011	29.04 23.05.2011	24.05 17.0	6.2011	20.06 13.07	.2011	14.07 05.08.201	1 by Arrangement
M. Sc. AgEcon		 4101-410 (Dabbert) Environmental and Re- source Economics 	● 4201-410 (C Agricultural and Policy	Grethe) d Food	4902-420 (Broc International For Agricultural Tr	ckmeier) od and rade		
M. Sc. AgriTropics	 3803-470 (Asch) Interdisciplinary Practical Science Training 	O 4901-430 (Zeller) Rural Development Pol- icy and Institutions	 ○ 4201-410 (Green cultural and Foor ○ 3802-420 (S 	ethe) Agri- od Policy auerborn)	○4902-420 (Bro International Fo Agricultural T	ckmeier) od and rade	○ 4902-430 (Brock- meier) Food and Nutri- tion Security	-
	● 3802-410 (Sauerborn) Ecology and Agroecosys- tems-(B2!)	O 3801-430 (Cadisch) Integrated Agricultural Production Systems	Biodiversity, P Animal Gen. R O 4403-550 (Mü	lant and (esources)	○ 4403-470 (Mü Renewable Energy Areas	ller, J.) / f. Rural	O 3803-430 (Asch) Ecophysiology of Crop in the T+S	s
		4801-410 (Valle Zárate) Genetic Re- sources and Animal Husbandry Systems	Postharvest Technology of Food and Bio-Based Prod. 4801-420 (Valle Zárate) Promotion of Livestock		O 4802-430 (F Integration of Aqu Agricult. Farm. S	ocken) uacult. in Systems	 4602-450 (Hölzle) Food Safety a. Drinking Water Quality related to Zoonoses in the T+S 	g o
M. Sc. Crop Sciences	 3602-460 (Gerhards) In- formation Technologies 4404-410 (Köller) Precision Farming 							
M. Sc. EnviroFood	 3102-440 (Kandeler) Environmental Pollution and Soil Organisms 3802-410 (Sauerborn) Ecology and Agroecosys- tems 	● 3103-450 (Streck) Spatial Data Analysis with GIS	 3802-420 (Sa Biodiversity, Pla Animal Gen. Re 4403-550 (Mü Postharvest Techr Food & Bio-Base 	uerborn) ant and sources ller, J.) hology of d Prod	 3103-460 (S Environmental S Project 4403-470 (Mü Renewable Ene Rural Area 	treck) Science iller, J.) ergy for		
M. Sc. EnvEuro (first year)	 ○ 3102-440 (Kandeler) Environmental Pollution and Soil Organisms → 3802-410 (Sauerborn) Ecology and Agroecosystems 	◀ 3103-450 (Streck) Spatial Data Analysis with GIS	 3802-420 (Sa Biodiversity, Pla Animal Gen. Re 4201-410 (C Agricultural an Policy 	uerborn) ant and sources Grethe) d Food	● 3103-460 (S Environmental S Project ○ 4403-470 (Mi Renewable Ene Rural Area	treck) Science üller, J.) ergy for		
M. Sc. OrganicFood							 4801-460 (Valle Zára te) Organic Livestock Farming and Products 	a-
M. Sc. Saiwam (Hohenheim)	 3101-520 (Stahr) Inter- disciplinary Study Project 	●3103-450(Streck) Spa- tial Data Analys.with GIS ● 4901-430 (Zeller) Ru-			4802-430 (For Integration of Active ture in Agricult. For Formatting Active ture in Agricult.	ocken) quacul- arming		
M. Sc.IntroSaiwamduc-(Chiang Mai)tion	● 3101- 510 (Stahr)	ral Dev. Policy and Instit. 0 (Zeller) • 3703-4	20 (Wünsche)	● 4801-4	Systems 70 (Valle Zaraté)		● 4403-510 (Müller, J.)	

Unblocked Modules taught in English at the Faculty of Agricultural Sciences

• =	= Com	pulso	ry		(I = Semi-elective ○ = Elective
AgEcon	Agri- Tropics	Crop Sciences	EnvEuro	Enviro- Food	Organic- Food	Unblocked Modules in Winter Term (October - February)
0	0	0			0	1201-410 (Wulfmeyer) Remote Sensing
-	-	-		-	-	3005-410 (Henriksen) Environmental Management in Europe (for EnvEuro only!)
0	0	0		0	0	3101-450 (Stahr) Major Pedological Field Trip (English + German)
0	0	0	0	0	0	3102-420 (Kandeler) Project in Soil Sciences (English + German)
0	0	0	0	0	0	3102-450 (Kandeler) Molecular Soil Ecology (will not be offered in WS 10/11!)
0	0	0		0	0	3301-440 (Müller, T.) Soil Fertility and Fertilisation in Organic Farming
0	0	0	0	0	0	3301-450 (Müller, T.) Fertilisation and Appl. Soil Chemistry in the T+S
0	0			0	0	3302-450 (Neumann) Plant Symbioses for Nutrient Acquisition
0	0			0	0	3302-460 (N.N.) Plant Quality
0	0			0	0	3401-470 (Claupein) Crop Physiology
0	•	0	•	0	0	3402-420 (Piepho) Quantitative Methods in Biosciences
0	0	0	-	0	0	3405-450 (Zikeli) Problems and Perspectives of Organic Farming
0	0	0		0	•	3405-460 (Zikeli) Processing and Quality of Organic Food
0	0	0		0	•	3405-470 (Zikeli) Organic Food Systems and Concents
0	0			0	0	3501-470 (Melchinger) Selection Theory
				Ŭ	Ŭ	3502-440 (Schmid) Methods of Scientific Working for Crop Sciences
\cap	0			\cap	\cap	3502-450 (Schmid) Population and Quantitative Genetics
$\overline{0}$	0			$\overline{0}$	\bigcirc	3504-430 (Kruse) Seed Research
$\overline{0}$	0			0	\circ	3601-450 (Vigele) Phytopathology (moved to WSIII)
0	0			0	\bigcirc	3602-450 (Cerhards) Molecular Aspects of Plant Protection
0	0			0	\bigcirc	3603-480 (Zehitz) Entomology
\bigcirc	0			0		4101-430 (Dabbert) Socioeconomics of Organic Farming
\bigcirc	0	\bigcirc	4			4201-440 (Crethe) Economics and Environmental Policy
\bigcirc		\circ	•			4201-440 (Gletine) Economics and Environmental Policy
\bigcirc		\circ	\cap	$\overline{0}$		4303-440 (Bellows) Social Conditions of Organic and Sustainable Agriculture
\bigcirc		\circ	0	$\overline{0}$	\circ	4303-490 (Denows) Ethics of Food and Nutrition Security 4403-490 (Asch) Interdisciplinary Case Study (aprolment before IV/S 10/11)
\bigcirc		\bigcirc	4		\circ	4405-400 (Asch) Interdisciplinary Case Study (enrolment before ws 10/11)
	0	\bigcirc	•		\circ	4400-410 (Nrahen) Waste Management and Waste Techniques
	\bigcirc	\bigcirc		\cup	\cup	
AgEcon	Agri- Tropics	Crop Sciences	EnvEuro	Enviro- Food	Organic- Food	Unblocked Modules in Summer Term (April - July)
-	-	-		-	-	3005-420 (Henriksen) Climate Change Impacts, Adaptation a. Mitigation (<i>EnvEuro</i> !)
\bigcirc	\bigcirc	\bigcirc	0	\bigcirc	\bigcirc	3101-430 (Stahr) Interdisciplinary Advanced Soil Science Project (<i>English</i> + <i>German</i>)
0	0	0	0	0	0	3101-440 (Stahr) Soil Genesis, Classification and Geography (English + German)
0	0	0	0	0	0	3101-450 (Stahr) Major Pedological Field Trip (<i>English</i> + <i>German</i>)
0	0	0		0	0	3101-460 (Stahr) Mapping Course: Soils and Vegetation (<i>overlapping B7 and B8!</i>)
0	0	0	0	0	\circ	3102-420 (Kandeler) Project in Soil Sciences (<i>English</i> + <i>German</i>)
\ominus	\ominus	Θ				
\cap		\cup		Φ	\ominus	3201-410 (Böcker) Field Course in Site Ecology (Meteorology, Soil Ecology, Vegeta- tion Ecology) with Seminar (<i>English</i> + <i>German</i>)
0	0	0	•	Ф 0	0 0	 3201-410 (Böcker) Field Course in Site Ecology (Meteorology, Soil Ecology, Vegeta- tion Ecology) with Seminar (<i>English</i> + <i>German</i>) 3401-450 (Claupein) Conservation Agriculture
0	0	0	•	Ф 00	Ф О	 3201-410 (Böcker) Field Course in Site Ecology (Meteorology, Soil Ecology, Vegeta- tion Ecology) with Seminar (<i>English</i> + <i>German</i>) 3401-450 (Claupein) Conservation Agriculture 3401-460(Claupein) Organic Plant Production
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				 Φ O O O O Φ O O		 3201-410 (Böcker) Field Course in Site Ecology (Meteorology, Soil Ecology, Vegetation Ecology) with Seminar (English + German) 3401-450 (Claupein) Conservation Agriculture 3401-460(Claupein) Organic Plant Production 3402-430 (Piepho) Bioinformatics 3405-490 (Zikeli) Organic Food Chain Project in Organic Agricult. and Food Systems 3501-450 (Melchinger) Breeding Methodology 3602-460 (Gerhards) Information Technologies and Expert Systems (blocked B6) 3603-420 (Zebitz) Crop Protection in Organic Farming 3603-470 (Zebitz) Ecology of Insects (moved to SS!!!) 3703-430 (Wünsche) Crop – Environment Interactions 4903-460 (Birner) Methods in Interdisciplinary Collaboration (for AgriTropics only!) 4202-440 (Becker. T.) Markets and Marketing of Organic Food 4303-470 (Bellows) Gender, Nutrition, and Right to Food

Explanation of Module Code



Day Hour	Monday	Thuesday	Wednesday	Thursday	Friday
8-9					
9 - 10					
10 – 11					
11 – 12					
12 – 13					
13 - 14					
14 – 15					
15 - 16					
16 – 17					
17 – 18					

Lecture Periods

11	First day:	(42. KW) Monday, 18.10.2010
WS 10/	Last day of un- blocked modules:	(5. KW) Saturday, 05.02.2011
	End of Block B5	Wednesday, 02.03.2011
SS 11	Start of Block B6	Monday, 04.04.2011
	First day of un- blocked modules:	(<u>14. KW</u>) Monday, 04.04.2011
	Last day of un- blocked modules:	(<u>28. кw</u>) Saturday,16.07.2011
	End of Block B10	Friday, 05.08.2011

Christmas holidays 2010/11: 27.12.2010 – 08.01.2011 (blocks: 24.12. – 08.01.) Easter holidays 2011: 22. – 25.04.2011

Pentecost holidays 2011: 14.06.2011 –18.06.2011 (except excursions+block 8+9) The "Dies Academicus" (date not yet known!) will be free of lectures too!

Examination periods in winter semester 2010/11

B.Sc. and M.Sc. period 1: calendar week 6 to 8
B.Sc. and M.Sc.: period 2: calendar week 11 to 13
Deadline for the registration for exams: see notice-board of examination office

Examination periods in summer semester 2011

B.Sc. and M.Sc. period 1: calendar week 29 to 31
B.Sc. and M.Sc.: period 2: calendar week 40 to 41
Deadline for the registration for exams: see notice-board of examination office

A registration form is available at the examination office.

Questions concerning the examination regulations, the study and examination plan, withdrawal or transcripts of records are answered at the examination office and the exact dates of the module examinations are posted at the online notice-board of the examination office at: (https://www.uni-hohenheim.de/pruefung.html?&L=1).