

# Environmental Science -Soil, Water and Biodiversity Master of Science



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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 Science – Soil, Water and Biodiversity" (EnvEuro – a European Master in Environmental Science). It contains information on the programme 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 provided without liability.

If in doubt, please refer to the co-ordinator of the programme (<u>enveuro@uni-hohenheim.de</u>) to obtain upto-date information. For up-to-date module descriptions please refer to the web-pages at <u>www.uni-hohenheim.de/modulkatalog</u>. 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 on the university's homepage: <u>www.uni-hohenheim.de</u>.

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#### The Master Programme "Environmental Science – Soil, Water and Biodiversity"

**Programme Design** The M.Sc. programme in "Environmental Science – Soil, Water and Biodiversity" (EnvEuro) is a two-year study programme which has been developed and is now contributed to by the following universities: University of Copenhagen (Denmark), University of Hohenheim (Germany), Swedish University of Agricultural Science (Sweden) and the University of Natural Resources and Applied Life Science Vienna (Austria), all members of the "Euroleague for Life Sciences". The language of instruction is English.

The full programme has an extent of 120 ECTS and is constructed by 4 Semester packages, each with a value of 30 ECTS (one basic Semester package/BSP, two advanced Semester packages/ASPs, and a thesis). All students will start up with a common introduction week in August, held at the LIFE University in Copenhagen, <u>in which participation is obligatory</u>. Teaching starts with an e-learning module, introducing the students to European environmental practices including legislation, regulation, monitoring/data collection and Policy (EME). The first year (BSP and 1<sup>st</sup> ASP) of the M.Sc. programme is carried out at the home university. The second year (2<sup>nd</sup> ASP and thesis) is carried out at one of the partner universities.

U	niversity of Home un		Host unive (LIFE / SLU /	•
Basic S	emester: emester ge/BSP	Second Semester: Advanced Semester Package 1/ASP 1 (one to choose)	Third Semester: Advanced Sem. Package 2/ASP 2 (one to choose)	Forth Semester Master thesis
		Environmental Impacts 30 ECTS	Water Resources SLU or BOKU, 30 ECTS	
		Environmental Management	Environmental Impacts LIFE, 30 ECTS	UC-Life
Introduc- tion week and EME	2 <sup>1</sup> / <sub>2</sub> modules	30 ECTS	Soil Resources and Land Use LIFE or SLU or BOKU, 30 ECTS	or SLU
module (e-lear- ning based), 15 ECTS	each 6 ECTS 15 ECTS	Soil Resources and Land Use 30 ECTS	Ecosystems and Biodiversity SLU or BOKU, 30 ECTS	or BOKU
		<b>Climate Change</b> 30 ECTS	<b>Environmental</b> <b>Management</b> LIFE, 30 ECTS	30 ECTS
			<b>Climate Change</b> LIFE or SLU or BOKU, 30 ECTS	

Programme Design of the M.Sc. "EnvEuro"

LIFE = University of Copenhagen, Faculty of Life Sciences, Denmark SLU = Swedish University of Agricultural Sciences, Sweden BOKU = University of Natural Resources and Applied Life Science, Austria

Programme Objectives and Conditions	The programme EnvEuro focuses on the relationships between natural re- source uses in Europe and the effects it has on environment and health, and aims at providing analytical and management tools as well as environmental technologies for sustainable production systems in areas with high pressures on natural resources. Water resources take a central role in the programme as water quantities and quality is a powerful measure of mass and energy balances in agriculture, industries and households including pollution loads. Six different specialisations allow for an individually tailored M.Sc. programme. The University of Hohenheim provides an excellent platform for development of a M.Sc. programme based on European knowledge and experience. The Master degrees of the University of Hohenheim are highly regarded academically, as well as being well received by employers internationally.
	The University of Hohenheim fosters contacts and partnerships with more than 50 universities worldwide as well as many renowned national and international institutions and companies. Students enrolled at Hohenheim are encouraged to take full advantage of this existing network in respect of their studies that opens doors to future opportunities.
Career Perspectives	The M.Sc. programme aims at providing candidates who can work professionally with soil, water, climate change and biodiversity in an

**Career Perspectives** The M.Sc. programme aims at providing candidates who can work professionally with soil, water, climate change and biodiversity in an environmental context and related to the use of natural resources, and based on insight in European ecosystems and knowledge on current European environmental management.

Candidates will have excellent skills for jobs in all public and industrial sectors working with optimisation of production within the regulative and legislative framework for maintaining high environmental and health standards.

Modules at the Univer-<br/>sity of HohenheimEnvEuro starts each year in the end of August with a compulsory intensive<br/>introduction course in Copenhagen. Afterwards students return to Hohenheim<br/>for the modules of the basic semester package (BSP). The BSP at Hohenheim<br/>consists of three compulsory modules and one elective module:

	Compulsory modules (BSP)	Blocked?	Credits
3005-410	Environmental Management in Europe (EME)	Intro-week + e-learning	15
3103-440	Matter Cycling in Agroecosystems	block 3	6
3402-420	Quantitative Methods in Biosciences (Part 1: Basic Statistics)	unblocked	3
List of sen	ni-elective modules (BSP) (one to choose)	Blocked?	Credits
3202-420	Global Change Issues	block 4	6
4904-430	Land Use Economics	block 4	6
3803-450	Crop Production Affecting the Hydrological Cycle	block 4	6
3004-410	Inland Water Ecosystems	block 5	6
1201-410	Remote Sensing	unblocked	6

Each 6 ECTS- Module at the University of Hohenheim corresponds to a workload of 4 SWS ("Semesterwochenstunden"=weekly contact hours per Semester), which are 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 each module. It may consist of different forms of teaching

(e.g. seminar, lecture, practical, excursion). More information about the modules taught at Hohenheim can be found in Annex I from page 15 onwards.

In the second semester students have to choose one of the following specialisations of **advanced semester package 1** (ASP1). These semester packages consist of three types of modules: compulsory, semi-elective, and elective. Students have to combine the modules so that 30 (or 33, if module 3005-420 is chosen) credits are achieved. Besides the compulsory modules, priority should be given to the semi-elective modules. Students may choose up to two elective modules from the module catalogue of the Faculty of Agricultural Sciences (not listed here, available at <a href="https://www.uni-hohenheim.de/modulkatalog.html?&L=1">https://www.uni-hohenheim.de/modulkatalog.html?&L=1</a>). The compulsory and semi-elective modules of ASP1 at Hohenheim are:

#### Specialisation: Environmental Impacts

Compulso	ry modules (together 18 credits)	Blocked?	Credits
3103-450	Spatial Data Analysis with GIS	block 7	6
3802-450	Biodiversity, Plant and Animal Genetic Resources	block 8	6
3103-460	Environmental Science Project	block 9	6
Elective m	odules		
	les may be freely chosen from the module c the Faculty of Agricultural Sciences	atalogue of all	master
Suggestion	s for-elective modules	Blocked?	Credits
3005-420	Climate Change Impacts, Adaptation and Mitigation	e-learning, unblocked	15
3102-440	Environmental Pollution and Soil Organisms	block 6	6

#### Specialisation Environmental Management

Compulso	ry modules (together 12 credits)	Blocked?	Credits
3103-450	Spatial Data Analysis with GIS	block 7	6
4201-410	Agricultural and Food Policy	block 8	6
Semi-elect	ive modules (at least 6 credits to choose)	Blocked?	Credits
3005-420	Climate Change Impacts, Adaptation and Mitigation	e-learning, unblocked	15
3103-460	Environmental Science Project	block 9	6
Elective m	odules		
-	modules may be freely chosen from the mod rses of the Faculty of Agricultural Sciences	dule catalogue	of all

Specialisation	Soil	Resources	and	Land	Use
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Compulso	ry modules (together 12 credits)	Blocked?	Credits		
<del>3401-450</del>	Conservation Agriculture	unblocked	6		
3301-470	Fertilisation and Applied Soil Chemistry in the Tropics and Subtropics	e-learning	6		
3103-450	Spatial Data Analysis with GIS	block 7	6		
Semi-elect	ive modules (at least 6 credits to choose)	Blocked?	Credits		
3401-450	Conservation Agriculture	unblocked	6		
3005-420	Climate Change Impacts, Adaptation and Mitigation	e-learning, unblocked	15		
3102-420	Project in Soil Science	unblocked	6		
3102-440	Environmental Pollution and Soil Organisms	block 6	6		
3101-430	Interdisciplinary Advanced Soil Science Project	block 9	6		
Elective m	odules				
-	Up to two modules may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences				

#### Specialisation Climate Change

Compulso	ry modules (together 21 credits)	Blocked?	Credits
3005-420	Climate Change Impacts, Adaptation and Mitigation	e-learning, unblocked	15
3103-450	Spatial Data Analysis with GIS	block 7	6
Elective m	odules		
	les may be freely chosen from the module c the Faculty of Agricultural Sciences	catalogue of all	l master
courses of	5 5	atalogue of all <b>Blocked?</b>	master Credits
courses of <b>Suggestion</b>	the Faculty of Agricultural Sciences		
courses of	the Faculty of Agricultural Sciences ns for elective modules Biodiversity, Plant and Animal Genetic	Blocked?	Credits

Upon request of the students the examination board can allow to substitute semi-elective modules of these four specialisations by modules from other master programmes of the University of Hohenheim. This substitution needs the approval of the mentor.

- **Course Catalogue** The Course Catalogue of the University of Hohenheim is available at the beginning of each Semester on the university's homepage: <u>www.uni-hohenheim.de</u>. The courses can be located inside the course catalogue of the University of Hohenheim by the name of the lecturers responsible for the courses or by the number of the institute. Times and lecture rooms of all courses can be found, and a personal time-table can be worked out. Mind that several non-blocked modules within that catalogue consist of more than one course.
- *Course Contents* For details about contents, lecturers and methods of instruction refer to the module description site (**www.uni-hohenheim.de/modulkatalog**).

Credit Point SystemThe M.Sc. programme has a total requirement of 120 ECTS credits.The examination result is expressed in grade points. The highest score is 4.0.<br/>A score of 1.0 is required for passing.

	Grade- points and grades		
	grade	es	grade-points
excellent performance	very good	А	4,0
		A-	3,7
performance considerably	good	B+	3,3
exceeding the above average		В	3,0
standard		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

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 credit points obtained in all modules is divided by the total number of credits collected.

The credit point system used in the M.Sc. programme is fully compatible with the European Credit Transfer System, ECTS.

**Study and Examination Plan** Students have to seek advice of the mentor of the programme on which elective modules are suitable for their individual profile. During the first three months of study the candidate must have the study and examination plan approved, in which all chosen modules are mentioned including the definite specification of the examination semester. The study and examination plan has to be signed by the co-ordinator or the mentor before it is handed in to the examination office. By handing in the Study and Examination Plan students are automatically registered for the chosen module examinations. Exchanges of modules need to be approved.

**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. Withdrawal on the first trial of each module examination is possible up to 7 days before the examination date. The examination will be postponed to the next possible examination period.

The claim for examination expires if:

- a minimum of six examinations has not been passed by the end of the second Semester at the latest
- an examination of one of the 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 deadlines. 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 (https://www.uni-hohenheim.de/pruefung.html) 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 respective examination performance is to be graded "fail" (F; 0 grade-points). A declaration (https://agrar.uni-hohenheim.de/plagiate.html?&L=1) has to be attached to homework, presentations, and to the thesis and the final digital text document has to be transferred to the mentoring supervisor.

- **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 professor 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 Science – Soil, Water and Biodiversity" within a fixed period of time by applying scientific methods. The exam consists of a written (thesis) and an oral (defence) 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 at the host university. Thesis work includes a literature review, new and original data derived from field work, a period of writing-up and, finally, a presentation.
- **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.
- Teaching Staff at<br/>HohenheimMost modules are organised and taught by professors who have broad experi-<br/>ence in international research. Students also benefit from Hohenheim's active<br/>links with academic partners worldwide.
- *Mentoring* A personal mentor from the teaching staff is assigned to advise on appropriate profiles and support smooth and goal-oriented progress. The study and examination plan has to be signed by the mentor before it is handed in to the examination office. Elective modules that are suitable for the individual profile, can be discussed first with the department advisor for the programme.
- *Modules at the Partner Universities* The typical student is expected to spend one year at Hohenheim and one year at one of the partner universities; the first year comprising the BSP plus 1<sup>st</sup> ASP at one university and the 2<sup>nd</sup> year at another university where the 2<sup>nd</sup> ASP plus the thesis work is performed. This set up is recommended because of the different Semester structures at the partner universities. Between the BSP and the 1<sup>st</sup> ASP moving will not work due to overlap between Semesters (see scheme on page 27.

The modules of **advanced Semester package 2** are:

Specialisation: Environmental Impacts (30 credits have to be chosen):

Partner university: University of Copenhagen:

250026 Pesticide use, mode of action and ecotoxicology (7,5 credits, block 1A)
250004 Applied plant nutrition (7,5 credits, Block 3C)
280008 Natural resource sampling and modelling (7,5 credits, block 1B)
240026 Landscape ecology (7,5 credits, Block 1B)
250006 Biological control of pests and diseases (7,5 credits, block 1C)
240001 Advanced microbiology (15 credits, block 2)

240003 Applied ecology (7,5 credits, block 2A)
240028 Molecular plant biochemistry and physiology (7,5 credits, block 2A)
210001 Applied statistics (7,5 credits, block 2A)
280003 Geographical Information Systems (7,5 credits, block 4C)

#### Specialisation Environmental Management (30 credits have to be chosen):

Partner university: University of Copenhagen:

240026 Landscape ecology (7,5 credits, block 1B)

290009 Economic theory of environmental policy (7,5 credits, block 1A)

310014 Mind and nature – landscapoe values (7,5 credits, block 1C)

290013 Environmental and natural resource economics (7,5 credits, block 2C)

290003 Applied forest and natrual resource economics (7,5 credits, block 2A)

210001 Applied statistics (7,5 credits, block 2A)

290010 Economic valuation and cost benefit analysis (15 credits, block 2A+ 2C)

*Specialisation Soil Resources and Land Use* (30 credits have to be chosen at one of these partner universities)

Partner university: University Copenhagen:

230013 Environmental soil chemistry (7,5 credits, block 1C)

230015 Pedology (7,5 credits, block 1A)

250026 Pesticide use, mode of action and ecotoxicology (7,5 credits, block 1A)

250006 Biological control of pests and diseases (7,5 credits, block 1C)

240001 Advanced microbiology (15 credits, block 2)

210001 Applied statistics (7,5 credits, block 2A)

Partner university: Swedish University of Agricultural Sciences:

MV0124 Soils of the world (7,5 credits, block period not yet fixed)

- TN0186 Biological waste treatment technology for urban wastes (15 credits, block 2a+2b)
- MV0100 Soil chemistry (7,5 credits, block 2a+2b)

Partner university: University of Natural Resources and Applied Life Science

811334 Risk Assessment in the Aquatic Environment (3 credits, compulsory)

- 812312 Multi-scale Modelling of Aquatic Ecosystems (3 credits)
- 816332 Computer based River Modelling (3 credits)
- 912317 Effects of Air Pollutants and Nutrient Deficiencies on Mountain Forests (3 credits)
- 933057 Contemporary Issues in Ethnopedology and Ethnoclimatology: Local Knowledge of Farmers about Soil, Weather and Climate Change (1,5 credits)
- 933308 Soil Fertility and Soil Ecology in Organic Farming (3 credits)
- 815321 Soil conservation and soil protection (3 credits, blocked)
- 911318 Ecology and Management of the Rhizopshere in Ecological Engineering (4,5 credits, blocked)
- 912314 Mountain forest climatology and headwater hydrology (4,5 credits, blocked)

871323 Forest hydrology and vegetation effects (3 credits, blocked) Free elective lecture (3 credits)

Specialisation Climate Change (30 credits have to be chosen):

Partner university: University of Copenhagen: Multilateral Climate Negotiations – (10 ECTS) Climate Change and the Law – (10 ECTS) Climate , Weather and Plants – (7.5 ECTS) Simple Climate Models – (7.5 ECTS) B Climate changes – causes, effects, limitations and adaptation – (7.5 ECTS) A Urban Ecosystems: Structures, Functions and Designs - (7.5 ECTS) B Ecological climatology & climate change – (7.5 ECTS) C Climate Change – effects on food and feed – (7.5 ECTS) From Plants to Bioenergy - (7.5 ECTS) Thematic Course: Sustainable Forest and Natural Resource Management Planning - (15 ECTS) A+C

Partner university: Swedish University of Agricultural Sciences: Environmental Risk Management and Accounting (15 ECTS) Landscape in transition - impacts of and adaptation to climate change (15 ECTS) Student project (X ECTS) Applied Environmental Assessment (10 ECTS) Environmental Policy (7.5 ECTS)

Partner university: University of Natural Resources and Applied Life Science Meteorological conditions and precipitation (3 ECTS) Foresights- Wohin entwickelt sich die Welt (2 ECTS) Risk Assessment in the Aquatic Environment (3 ECTS) Contemporary issues in ethnopedology and ethnoclimatology: Local Knowledge of farmers about soil, weather and climate change (3 ECTS) Integral Risk Management (3 ECTS) Mountain forest climatology and headwater hydrology (4.5 ECTS) Technology Assessment (1.5 ECTS) Forest hydrology and vegetation effects (3 ECTS) Soil Conservation and Soil Protection (3 ECTS) Biogeochemistry of carbon and nitrogen in forests and wildlife systems: Implications for management and global impacts (2 ECTS) Disaster management (2 ECTS) Introduction to modelling and simulation models (3 ECTS) Climate change and forest management: Impacts, adaptation, mitigation"(2 ECTS) Innovations for Sustainable Forest Management (3 ECTS) Forecasting and warning systems (3 ECTS) Statistics of extreme events and geostatistics (3 ECTS) Free elective lecture (3 ECTS)

Hohenheim's ASP 2 The modules offered for incoming students for which Hohenheim is the host university are listed below. Detailed information on the modules is provided in Appendix II from page 19 onwards.

The modules in ASP2 comprise two types of modules: semi-elective, and elective. Students have to combine the modules so that 30 credits are achieved. Priority should be given to the semi-elective modules. Students may choose one elective module from the module catalogue of the Faculty of Agricultural Sciences (not listed here, available at https://www.uni-hohenheim.de/modulkatalog.html?&L=1). The semi-elective modules of ASP2 at Hohenheim are listed below.

Upon request of the students the examination board can allow to substitute semi-elective modules of these four specialisations by modules from other master programmes of the University of Hohenheim. This substitution needs the approval of the mentor.

Semi-elective modules		Blocked?	Credits
3202-430	Air Pollution and Air Pollution Control	block 1	6
4402-440	Agricultural Production and Residues	block 1	6
3202-410	Ecotoxicology and Environmental Analytics	block 2	6
3103-440	Matter Cycling in Agroecosystems	block 3	6

Specialisation: Environmental Impacts

Semi-elect	ive modules	Blocked?	Credits
4403-580	Water and Soil Management in Agricultural Production	block 3	6
3202-420	Global Change Issues	block 4	6
4602-460	Environmental Microbiology, Parasitology and Microbial Ecology	block 4	6
3004-410	Inland Water Ecosystems	block 5	6
4406-410	Waste Management and Waste Techniques	unblocked	6
Elective m	odule		
	e may be freely chosen from the module ca the Faculty of Agricultural Sciences	talogue of all	master

#### Specialisation: Environmental Management

Semi-elect	ive modules	Blocked?	Credits									
4904-460	Farm System Modelling	block 1	6									
4901-420	Poverty and Development Strategies	block 1	6									
4403-580	Water and Soil Management in Agricultural Production	block 3	6									
3004-410	Inland Water Ecosystems	block 5	6									
4201-440	Economics and Environmental Policy	unblocked	6									
4406-410	Waste Management and Waste Techniques	unblocked	6									
Elective m	odule											
	One module may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences											

#### Specialisation: Soil Resources and Land Use

Semi-elect	ive modules	Blocked?	Credits								
3101-410	Tropical Soils and Land Evaluation	block 1	6								
3202-410	Ecotoxicology and Environmental Analytics	block 2	6								
4403-580	Water and Soil Management in Agricultural Production	block 3	6								
4904-430	Land Use Economics	block 4	6								
3301-440	Soil Fertility and Fertilisation in Organic Farming	unblocked	6								
3301-470	Fertilisation and Applied Soil Chemistry in the Tropics and Subtropics	e-learning	6								
3102-420	Project in Soil Sciences (in English and German)	unblocked	6								
3102-450	Molecular Soil Ecology (not offered in 2012/13)	unblocked	6								
Elective m	Clective module										
	One module may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences										

Specialisation: Climate Change

Semi-elect	ive modules	Blocked?	Credits						
3202-430	Air Pollution and Air Pollution Control	block 1	6						
4403-580	Water and Soil Management in Agricultural Production	block 3	6						
3202-420	Global Change Issues	block 4	6						
3803-450	Crop Production Affecting the Hydrological Cycle	block 4	6						
3004-410	Inland Water Ecosystems	block 5	6						
1201-410	Remote Sensing	unblocked	6						
4201-440	Economics and Environmental Policy	unblocked	6						
Elective module									
One module may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences									

**Double Degree** On successful completion of the M.Sc. programme a double degree diploma "Master of Science" (M.Sc.) in "Environmental Science – Soil, Water and Biodiversity" is issued. A double degree constitutes of a certificate from each of the two universities where the student has conducted his/her studies. This degree entitles the student to continue with a Ph.D./doctoral programme if the total grade is above average.

Admission Requirements Admission to the M.Sc. programme EnvEuro at Hohenheim is restricted to 10 students per year. Applicants require an above-average Bachelor of Science (B.Sc.) or equivalent degree in a natural science area such as Agricultural Sciences, Agricultural Biology, Biology, Environmental Sciences, Natural Resources or other following at least three years of university studies. Apart from grades and educational achievements, professional experience, motivation and other relevant activities (e.g. social, political) will be considered.

Applicants whose native language is not English and who are not citizen of a country with English as official language have to provide a proof of proficiency in English (i.e. a minimum of 83 points in the internet-based TOEFL Test).

- *Application Deadline* The application deadline for Non-EU-citizens is 1<sup>st</sup> January each year and for EU-citizens it is 1<sup>st</sup> of June each year. Please note that EnvEuro starts each year in the end of August with a compulsory one-week intensive introduction course in Copenhagen. All students from the four partner universities are introduced to each other to ensure that all students across home universities and host universities will get to know each other.
- *Fees and Expenses* A registration fee (at present 115,05 € per semester) has to be paid by every student. Students are expected to cover their own living expenses, including housing, food, health insurance, study materials etc. (approx. 700 € month).
- *Scholarships* Unfortunately, the University of Hohenheim is neither in a position to provide scholarships nor to assist with the application procedure. Applications for grants should therefore be directed to the relevant organisations.

Applicants wishing to obtain a grant are advised to request detailed information from the German Embassy or Consulate in their home country. It is generally advisable to apply for a scholarship and to secure confirmation well in advance.

Cost of Living	Students have to come up for their own living expenses. The standard of living is comparatively high and so is the cost of living. On estimate, a single student needs approximately Euro 700 per month. Apart from accommodation fees and food expenses, additional costs have to be taken into account, i.e. excursion fees, registration fees (see above), health insurance (which is a pre-requisite for registering with a German university), personal liability insurance, study material, etc.
Housing	Each student is responsible for finding accommodation for him-/herself. The University of Hohenheim cannot guarantee accommodation in dormitories due to lack of capacity. However, the University of Hohenheim offers assistance with looking for accommodation. This may help international students to fulfil visa requirements. Rent for a single-room apartment amounts to about Euro 250 to 400 per month, depending on the size of the flat and distance from the University or the city of Stuttgart.
Dormitories	Dormitories are located on the campus or walking distance to the campus. All rooms are furnished and equipped with internet access. Kitchen and Bath facilities have to be shared with other students. The rent varies in between 210 and 270,- $\notin$ per room per month, depending on the room and dormitory itself. A caution fee of 400,- $\notin$ will have to be paid once in the beginning of the rental contract, in advance before moving in.
Visa Application	Students from outside the European Union have to apply for a visa in order to study in Germany. Applicants are strongly advised to contact the cultural department of the German Embassy or Consulate responsible for the city of residence as soon as the letter of admittance has been received. The letter of admittance will certify that knowledge of the German language is not required for participating in the Hohenheim Master programme.
	The basic requirements for a student visa are the following: valid passport, photographs, proof of high school diploma / previous university study, letter of admittance from the University of Hohenheim and proof of a financing source for the duration of the study (or at least for the first year). As a prerequisite for obtaining a visa at least EUR 650 per month are required. Therefore, for the first year, applicants will have to prove a minimum availability of EUR 7,800 of own resources, unless some other financing source is at their disposal. In the latter case, one (or more) person(s) or sponsor(s) have to take official responsibility for all costs pertaining to the entire period of study.
Responsible Scientist and Mentor at UHOH	Prof. Dr. Andreas Fangmeier Department: Plant Ecology and Ecotoxicology
Contact	Programme Coordinator EnvEuro University of Hohenheim (790) 70593 Stuttgart Germany Tel. +49-(0) 711-459-23305 Fax +49-(0) 711-459-23315 E-mail: enveuro@uni-hohenheim.de http://www.uni-hohenheim.de/enveuro

Module- Code	Name of Module	Sem.	Binding- ness	Responsible Professor	Lan- guage	Module- Duration	Exam	LV-Code	Courses of the Module	Lecturer(s)	Туре	SWS
1201-410	Remote Sensing	1	See pp. 6-7	Wulfmeyer	E	1 Sem.	written or oral	1201-412 1201-411	<ul> <li>Remote Sensing tutorials</li> <li>Remote Sensing lectures</li> </ul>	<ul> <li>Dr. rer. nat. Andreas Behrendt, Prof. Dr. Volker Wulfmeyer</li> <li>Dr. rer. nat. Andreas Behrendt, Prof. Dr. Volker Wulfmeyer</li> </ul>	Exercise     Lecture	• 2 • 2
3004-410	Inland Water Ecosystems	1	See pp. 6-7	Tremp	Е	3,5 Weeks (B05)	written	3004-411	• Inland Water Ecosystems	PD Dr. Horst     Tremp	• Lecture with Exercise	• 4
3005-410	Environmental Management in Europe (EME)	1	Compul sory	Fangmeier	E	1 Sem.	written	3005-411	<ul> <li>Environmental Management in Europe (EME)</li> </ul>	<ul> <li>Prof. Dr. Christian Bugge Henriksen</li> </ul>	• E- Learning	• 10
3005-420	Climate Change Impacts, Adaptation and Mitigation	2	See pp. 6-7	Fangmeier	E	1 Sem.	continuous assessment and elec- tronic exam	3005-421	<ul> <li>Climate Change Impacts, Adaptation and Mitigation</li> </ul>	<ul> <li>Prof. Dr. Christian Bugge Henriksen</li> </ul>	• E- Learning	• 10
3005-440	Restauration of European Ecosystems and Freshwaters	2	Elective	Fangmeier	E	geblockt	portfolio	3005-441	<ul> <li>Restauration of European Ecosystems and Freshwaters</li> </ul>	Prof. Dr. Andreas     Fangmeier	• Excursion	• 5
3101-430	Interdisciplinary Advanced Soil Science Project	2	See pp. 6-7	Stahr	D/E	1 Sem.	oral	3101-431	Interdisciplinary Advanced Soil Science Project	<ul> <li>Frau Ursula Berghammer, Prof. Dr. Ellen Kandeler, Prof. Dr. Torsten Müller, Prof. Dr. Karl Stahr, Prof. Dr. Thilo Streck</li> </ul>	• Exercise	• 4

Annex I: Modules offered within the EnvEuro-Programme for Hohenheim's students. The modules are sorted by module-code.

Module- Code	Name of Module	Sem.	Binding- ness	Responsible Professor	Lan- guage	Module- Duration		LV-Code	Courses of the Module	Lecturer(s)	Туре	SWS
3102-420	Project in Soil Sciences	2	See pp. 6-7	Kandeler	D/E	1 Sem.	oral	3102-421	<ul> <li>Project in Soil Sciences</li> </ul>	<ul> <li>Prof. Dr. Ellen Kandeler, Prof. Dr. Karl Stahr, Prof. Dr. Thilo Streck</li> </ul>	<ul> <li>Seminar</li> </ul>	• 4
3102-440	Environmental Pollution and Soil Organisms	2	See pp. 6-7	Kandeler	E	3,5 Weeks (B06)	oral (70%), in-course assessment (30%, semi- nar presen- tation)	3102-443 3102-441 3102-442	<ul> <li>Course on Methods in Soil Biology</li> <li>Environmental Geomicrobiology</li> <li>Methods in Soil Biology</li> </ul>	<ul> <li>Prof. Dr. Ellen Kandeler, Dr. Christian Poll</li> <li>Prof. Dr. Ellen Kandeler</li> <li>Prof. Dr. Ellen Kandeler</li> </ul>	<ul> <li>Exercise</li> <li>Lecture with Excursion</li> <li>Lecture</li> </ul>	• 1 • 2 • 1
3103-440	Matter Cycling in Agroecosystems	1	Compul sory	Streck	E	3,5 Weeks (B03)	written	3103-441	<ul> <li>Matter Cycling in Agroecosystems</li> </ul>	<ul> <li>Prof. Dr. Thilo Streck</li> </ul>	• Lecture with Exercise	• 4
3103-450	Spatial Data Analysis with GIS	2	See pp. 6-7	Streck	E	3,5 Weeks (B07)	written	3103-451 3103-452	<ul> <li>Spatial Data Analysis with GIS</li> <li>Working with Spatial Data Using Geographical Information Systems</li> </ul>	<ul> <li>Prof. Dr. Thilo Streck</li> <li>Prof. Dr. Thilo Streck</li> </ul>	<ul><li>Lecture</li><li>Exercise</li></ul>	• 2 • 2
3103-460	Environmental Science Project	2	See pp. 6-7	Streck	E	3,5 Weeks (B09)	oral (70%) with in-co- urse assess- ment (semi- nar presen- tation of the group work) (30%)	3103-461	Environmental     Science Project	Prof. Dr. Thilo Streck	• Lecture with Seminar, Excursion and Lab- exercises	• 4
3201-540	Greek Summer School - Conservation Biology	2	Elective	Dieterich	E	3,5 Weeks (B09)	Written 30%, participation 30%,	3201-541	Greek Summer School - Conservation Biology	• Prof. Dr. Martin Dieterich	• Lecture with Exercise and	• 4

Module- Code	Name of Module	Sem.		Responsible Professor	Lan- guage	Module- Duration		LV-Code	Courses of the Module	Lecturer(s)	Туре	SWS
							project 40%				Excursion	
3202-420	Global Change Issues	1	See pp. 6-7	Fangmeier	E	3,5 Weeks (B04)	written	3202-423 3202-421 3202-422	<ul> <li>Experiments on Global Change</li> <li>Introduction to Global Change</li> <li>Seminar on Global Change</li> </ul>	<ul> <li>Prof. Dr. Andreas Fangmeier, Dr. Jürgen Franzaring, Dr. Petra Högy</li> <li>Prof. Dr. Andreas Fangmeier, Dr. Jürgen Franzaring, Dr. Petra Högy, PD Dr. Andreas Klumpp</li> <li>Prof. Dr. Andreas Fangmeier, Dr. Jürgen Franzaring, Dr. Petra Högy</li> </ul>	<ul> <li>Lab</li> <li>Lecture</li> <li>Seminar</li> </ul>	• 1 • 2 • 1
3301-470	Fertilisation and Ap- plied Soil Chemistry in the Tropics and Subtropics (e-learning module)	3	See pp. 6-7	Müller	E	1 Sem.	oral (75%), presentation with handout (25%)	3301-471	<ul> <li>Fertilisation and Applied Soil Chemistry in the Tropics and Subtropics (ILIAS online module)</li> </ul>	<ul> <li>Dr. Kurt Möller, Prof. Dr. Torsten Müller</li> </ul>	• E- Learning	• 4
3401-450	Conservation Agriculture	2	Semi- elective	Claupein	E	1 Sem.	oral (2/3) with excursion report (1/3)	3401-451	Conservation     Agriculture	<ul> <li>Prof. Dr. Wilhelm Claupein, Prof. Dr. Roland Gerhards, Prof. Dr. Hans W. Griepentrog, Prof. Dr. Karlheinz Köller, Dr. Martina Mayus</li> </ul>	<ul> <li>Lecture with Seminar and Excursion</li> </ul>	• 4
3402-420	Quantitative Methods in Biosciences	1	Compul sory	Piepho	E	1 Sem.	written	3402-421	<ul> <li>Quantitative Methods in</li> </ul>	Prof. Dr. Hans- Peter Piepho	• Lecture with Lab-	• 4

Module- Code	Name of Module	Sem	Binding- ness	Responsible Professor	Lan- guage	Module- Duration		LV-Code	Courses of the Module	Lecturer(s)	Туре	SWS
									Biosciences		exercises	
3802-420	Biodiversity, Plant and Animal Genetic Resources	2	See pp. 6-7	Sauerborn	E	3,5 Weeks (B08)	written	3802-421	<ul> <li>Biodiversity, Plant and Animal Genetic Resources</li> </ul>	<ul> <li>M. Sc. Inga Häuser, apl. Prof. Dr. Konrad Martin, Prof. Dr. Joachim Sauerborn, Prof. Dr. Karl Schmid, Prof. Dr. Anne Valle Zárate</li> </ul>	• Lecture with Seminar, Excursion and Lab- exercises	• 4
3803-450	Crop Production Affecting the Hydrological Cycle	1	See pp. 6-7	Asch	E	3,5 Weeks (B04)	seminar paper and oral exam	3803-451	Crop Production Affecting the Hydrological Cycle	<ul> <li>Prof. Dr. Folkard Asch, Dr. Holger Brück, Prof. Dr. Joachim Müller</li> </ul>	• Lecture with Exercise	• 4
4201-410	Agricultural and Food Policy	2	See pp. 6-7	Grethe	E	3,5 Weeks (B08)	written	4201-411	<ul> <li>Agricultural and Food Policy</li> </ul>	• Prof. Dr. Harald Grethe	<ul> <li>Exercise</li> </ul>	• 4
4403-470	Renewable Energy for Rural Areas	2	See pp. 6-7	Müller	E	3,5 Weeks (B09)	written	4403-471	• Renewable Energy for Rural Areas	<ul> <li>Prof. Dr. Joachim Müller, Prof. Dr. Manfred Zeller</li> </ul>	• Lecture with Excursion and Lab	• 4
4903-500	Policy Processes in Agriculture and Natural Resource Management	2	Elective	Birner	E	3,5 Weeks (B09)	written	4903-500	<ul> <li>Policy Processes in Agriculture and Natural Resource Management</li> </ul>	<ul> <li>Prof. Dr. Regina Birner</li> </ul>	Lecture	• 4
4904-430	Land Use Economics	1	See pp. 6-7	Berger	E	3,5 Weeks (B04)	written	4904-432 4904-431	<ul> <li>Land Use Econo- mics - Case Study</li> <li>Land Use Economics - Lecture</li> </ul>	<ul> <li>Prof. Dr. Thomas Berger</li> <li>Prof. Dr. Thomas Berger</li> </ul>	<ul><li>Lab</li><li>Lecture</li></ul>	• 2 • 2

Annex II: Modules offered for incoming students from Hohenheims partner universities in ASP2 (winter term). The modules are sorted by module-code. (Choose four modules of your specialisation on page 11-13. One elective module may be freely chosen.)

Module- Code	Name of Module		Binding- ness	Responsible Professor		Module- Duration		LV-Code	Courses of the Module	Lecturer(s)	Туре	SWS
1201-410	Remote Sensing	3	Semi- elective	Wulfmeyer	E	1 Sem.	written or oral	1201-412 1201-411	<ul> <li>Remote Sensing tutorials</li> <li>Remote Sensing lectures</li> </ul>	<ul> <li>Dr. rer. nat. Andreas Behrendt, Prof. Dr. Volker Wulfmeyer</li> <li>Dr. rer. nat. Andreas Behrendt, Prof. Dr. Volker Wulfmeyer</li> </ul>	Exercise     Lecture	• 2 • 2
3004-410	Inland Water Ecosystems	3	Semi- elective	Tremp	E	3,5 Weeks (B05)	written	3004-411	<ul> <li>Inland Water Ecosystems</li> </ul>	• PD Dr. Horst Tremp	• Lecture with Exercise	• 4
3101-410	Tropical Soils and Land Evaluation	3	Semi- elective	Stahr	E	3,5 Weeks (B01)	oral	3101-411	<ul> <li>Tropical Soils and Land Evaluation</li> </ul>	<ul> <li>PD Dr. Sabine Fiedler, Prof. Dr. Karl Stahr</li> </ul>	<ul> <li>Lecture with Seminar, Lab and Excursion</li> </ul>	• 4
3102-420	Project in Soil Sciences	3	Semi- elective	Kandeler	D/E	1 Sem.	oral	3102-421	<ul> <li>Project in Soil Sciences</li> </ul>	<ul> <li>Prof. Dr. Ellen Kandeler, Prof. Dr. Karl Stahr, Prof. Dr. Thilo Streck</li> </ul>	<ul> <li>Seminar</li> </ul>	• 4
3102-450	Molecular Soil Ecology	3	Semi- elective	Kandeler	E	1 Sem.	oral	3102-452 3102-451	<ul> <li>Course in Molecular Soil Ecology</li> <li>Microbiology of the Rhizosphere</li> </ul>	<ul> <li>Prof. Dr. Ellen Kandeler, Dr. Sven Marhan, Dr. Frank Rasche</li> <li>Prof. Dr. Ellen Kandeler, PD Dr. Günther Neumann</li> </ul>	Exercise     Lecture	• 3 • 1
3103-440	Matter Cycling in Agroecosystems	3	Semi- elective	Streck	Е	3,5 Weeks	written	3103-441	<ul> <li>Matter Cycling in Agroecosystems</li> </ul>	<ul> <li>Prof. Dr. Thilo Streck</li> </ul>	• Lecture with	• 4

Module- Code	Name of Module	Sem.	Binding- ness	Responsible Professor	Lan- guage	Module- Duration		LV-Code	Courses of the Module	Lecturer(s)	Туре	SWS
						(B03)					Exercise	
3202-410	Ecotoxicology and Environmental Analytics	3	Semi- elective	Fangmeier	E	3,5 Weeks (B02)	written	3202-411	• Ecotoxicology and Environmental Analytics	Prof. Dr. Andreas     Fangmeier	• Lecture with Seminar	• 4
3202-420	Global Change Issues	3	Semi- elective	Fangmeier	E	3,5 Weeks (B04)	written	3202-423 3202-421 3202-422	<ul> <li>Experiments on Global Change</li> <li>Introduction to Global Change</li> <li>Seminar on Global Change</li> </ul>	<ul> <li>Prof. Dr. Andreas Fangmeier, Dr. Jürgen Franzaring, Dr. Petra Högy</li> <li>Prof. Dr. Andreas Fangmeier, Dr. Jürgen Franzaring, Dr. Petra Högy, PD Dr. Andreas Klumpp</li> <li>Prof. Dr. Andreas Fangmeier, Dr. Jürgen Franzaring, Dr. Petra Högy</li> </ul>	<ul> <li>Lab</li> <li>Lecture</li> <li>Seminar</li> </ul>	• 1 • 2 • 1
3202-430	Air Pollution and Air Pollution Control	3	Semi- elective	Fangmeier	E	3,5 Weeks (B01)	written	3202-431 3202-432 3202-433	<ul> <li>Air Pollutants</li> <li>Laboratory Course on Selected Air Pollutants</li> <li>Seminar on Air Pollution and Air Pollution Control</li> </ul>	<ul> <li>Prof. Dr. Andreas Fangmeier</li> <li>Prof. Dr. Andreas Fangmeier</li> <li>Prof. Dr. Andreas Fangmeier</li> </ul>	<ul><li>Lecture</li><li>Exercise</li><li>Seminar</li></ul>	• 2 • 1 • 1
3301-450	Soil Fertility and Fertilisation in Organic Faring	3	Semi- elective	Müller	E	1 Sem.	oral (75%), presentation with handout (25%)	3301-471	<ul> <li>Soil Fertility and Fertilisation in Organic Faring</li> </ul>	<ul> <li>Prof. Dr. Torsten Müller</li> </ul>	<ul> <li>Lecture with exercise and seminar</li> </ul>	• 4
3301-470	Fertilisation and Applied Soil Chemistry in the	3	Semi- elective	Müller	E	1 Sem.	oral (75%), presentation with	3301-471	• Fertilisation and Applied Soil Chemistry in the	<ul> <li>Frau Ursula Berghammer, Dr. Kurt Möller, Prof.</li> </ul>	• E- Learning	• 4

Module- Code	Name of Module	Sem.		Responsible Professor	Lan- guage	Module- Duration		LV-Code	Courses of the Module	Lecturer(s)	Туре	SWS
	Tropics and Subtropics (e-learning module)						handout (25%)		Tropics and Subtropics (ILIAS online module)	Dr. Torsten Müller		
3803-450	Crop Production Affecting the Hydrological Cycle	3	Semi- elective	Asch	E	3,5 Weeks (B04)	seminar paper and oral exam	3803-451	Crop Production Affecting the Hydrological Cycle	<ul> <li>Prof. Dr. Folkard Asch, Dr. Holger Brück, Prof. Dr. Joachim Müller</li> </ul>	• Lecture with Exercise	• 4
4201-440	Economics and Environmental Policy	3	Semi- elective	Grethe	E	1 Sem.	written exam	4201-441 4201-442	<ul> <li>Basic Microeconomics</li> <li>Environmental Policy</li> </ul>	<ul> <li>Prof. Dr. Harald Grethe</li> <li>Prof. Dr. Christian Lippert</li> </ul>	<ul><li>Lecture</li><li>Lecture</li></ul>	• 2 • 2
4402-440	Agricultural Production and Residues	3	Semi- elective	Gallmann	E	3,5 Weeks (B01)	oral	4402-443 4402-441 4402-442 4402-444	<ul> <li>Basics of Animal Nutrition</li> <li>Basics of Crop Production Systems</li> <li>Basics of Mechanization in Crop Production</li> <li>Livestock Production Systems</li> </ul>	<ul> <li>Prof. Dr. Rainer Mosenthin</li> <li>Prof. Dr. Wilhelm Claupein, M. Sc. Inga Häuser, Prof. Dr. Joachim Sauerborn</li> <li>Prof. Dr. Karlheinz Köller</li> <li>Prof. Dr. Werner Bessei, Prof. Dr. Thomas Jungbluth</li> </ul>	<ul> <li>Lecture         with         Excursion</li> <li>Lecture         with         Excursion</li> <li>Lecture         with         Excursion</li> <li>Lecture         with         Excursion</li> </ul>	• 1 • 1 • 1
4403-580	Water and Soil Management in Agricultural Production	3	Semi- elective	Müller	E	3,5 Weeks (B03)	written	4403-581	• Water and Soil Management in Agricultural Production	<ul> <li>Prof. Dr. Joachim Müller, Prof. Dr. Karl Stahr</li> </ul>	<ul> <li>Lecture with Exercise and Seminar</li> </ul>	• 4
4406-410	Waste Management and Waste Techniques	3	Semi- elective	Kranert	Е	1 Sem.	written	4406-411	• Waste Management and Waste Techniques	<ul> <li>Herr Detlef Clauß, Herr Matthias Rapf</li> </ul>	• Lecture	• 4

Module- Code	Name of Module	Sem.	Binding- ness	Responsible Professor		Module- Duration		LV-Code	Courses of the Module	Lecturer(s)	Туре	SWS
4602-460	Environmental Microbiology, Parasitology and Microbial Ecology	3	Semi- elective	Hölzle	Е	3,5 Weeks (B04)	written	4602-461	<ul> <li>Environmental Microbiology, Parasitology and Microbial Ecology</li> </ul>	<ul> <li>Prof. Dr. Ludwig Hölzle</li> </ul>	• Lecture	• 4
4901-420	Poverty and Development Strategies	3	Semi- elective	Zeller	E	3,5 Weeks (B01)	written	4901-421	<ul> <li>Poverty and Development Strategies</li> </ul>	Prof. Dr. Manfred Zeller	Lecture	• 4
4904-430	Land Use Economics	3	Semi- elective	Berger	E	3,5 Weeks (B04)	written	4904-432 4904-431	<ul> <li>Land Use Econo- mics - Case Study</li> <li>Land Use Economics - Lecture</li> </ul>	<ul> <li>Prof. Dr. Thomas Berger</li> <li>Prof. Dr. Thomas Berger</li> </ul>	<ul><li>Lab</li><li>Lecture</li></ul>	• 2 • 2
4904-460	Farm System Modelling	3	Semi- elective	Berger	E	3,5 Weeks (B01)	written	4904-461 4904-463 4904-462	<ul> <li>Farm System Modelling</li> <li>Introduction to Excel Spreadsheet Models</li> <li>Modelling of Land Use Decisions with Mathematical Programming</li> </ul>	<ul> <li>Prof. Dr. Thomas Berger</li> <li>Prof. Dr. Thomas Berger</li> <li>Prof. Dr. Thomas Berger</li> </ul>	<ul> <li>Lecture</li> <li>Tutorium</li> <li>Lab</li> </ul>	• 2 • 4 • 2

## **Block Periods 2012/2013**

	Block	Period
<u>ب</u>	1	15.10 07.11.2012
Winter Semester	2	08.11 30.11.2012
Sem	3	03.12 21.12.2012
ter (		+07.0108.01.2013
Vint	4	09.01 31.01.2013
	5	01.02 25.02.2013
er.	6	02.04 24.04.2013
leste	7	25.04 17.05.2013
Sem		+27.0528.05.2013
ner (	8	29.05 21.06.2013
Summer Semester	9	24.06 16.07.2013
Ŝ	10	17.07 08.08.2013

**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 check module descriptions for how to register for participation in the module!

## **Blocked Modules Winter Semester 2012/13**

Period	<b>1</b> (17 days)	<b>2</b> (17 days)	<b>3</b> (17 days)	<b>4</b> (17 days)	<b>5</b> (17 days)	
Study Course	15.10 07.11.2012	08.11 30.11.2012	03.12. – 21.12.12 07.01. – 08.01.2013	09.01 31.01.2013	01.02 25.02.2013	by Arrangement
M. Sc. AgEcon	● <b>4904-460</b> (Berger) Farm System Modelling	• 4902-410 (Brockmeier) Applied Econometrics	<b>4903-480</b> (Birner) Governance, Institut. and Organisat. Development	4301-410 (Hoffmann) Knowledge and Innovation Management	4201-420 (Grethe) Advanced Policy Analysis Modelling	
	<ul> <li>4901-420 (Zeller) Poverty and</li> <li>Development Strategies</li> </ul>		◀ 4902-420 (Brockmeier) International Food and Agri- cultural Trade	● <b>4904-430</b> (Berger) Land Use Economics		
M. Sc. AgriTropics	<ul> <li>4901-420 (Zeller)</li> <li>Poverty and</li> <li>Development Strategies</li> </ul>	<ul> <li>3802-410 (Sauerborn)</li> <li>Ecology and</li> <li>Agroecosystems</li> </ul>	<ul> <li>4403-580 (Müller, J.)</li> <li>Water and Soil Management in Agric. Production</li> </ul>	● 3801-420 (Cadisch) Crop Production Systems ○ 3803-450 (Asch)	<ul> <li>4801-450 (Valle Zárate) Livestock</li> <li>Production Systems</li> </ul>	
	4301-430 (Hoffmann) Rural Communication and Extension	O 4904-450 (Berger) Farm and Project Evaluation	O <b>4901-470</b> (Zeller) Quantitative Methods in Economics	Crop Production Affecting the Hydrological Cycle 3501-440 (Melchinger)	O 3405-410 (Zikeli) Organic Farming in the Tropics and Subtropics	
	○ 3101-410 (Stahr) Tropical Soils and Land Evaluation	<ul> <li>→ 4802-410 (Focken) In- tensive Aquacult. Systems</li> <li>→ 3803-440 (Asch) Signal-</li> </ul>	O <b>4801-430</b> (Valle Zárate) Livestock Breeding Programmes	Plant Breeding and Seed Science in the T+S O <b>4903-490</b> (Birner)	O <b>4903-510</b> (Birner) Agriculture and Food Se- curity in Fragile Systems	
	→ 4801-410 (Valle Zárate) Genetic Resour- ces and Animal Husban- dry Systems (not 12/14)	ling in Plants under Stress <b>4802-440</b> (Dickhöfer) Phys.+Ec. Asp.Livestock Nutrition in the Tropics.	O <b>4902-420</b> (Brockmeier) International Food and Agri- cultural Trade	Social Dimensions of Agricultural Development O <b>4802-460</b> (Focken) Aquaculture Systems		
M. Sc. Crop Sciences		O <b>3803-440</b> (Asch) Signalling in Plants under Stress	<ul> <li><b>3501-460</b> (Melchinger)</li> <li>Planning. of Breeding</li> <li>Programmes</li> </ul>	<ul> <li>4-3501-460 (Melchinger)</li> <li>Planning. Of Breeding</li> <li>Programmes (B3!)</li> </ul>		<ul> <li>3301-460 (Müller, T.)</li> <li>Exercises in Plant</li> <li>Nutrition (after B5)</li> </ul>
M. Sc. EnviroFood	VB● <b>4402-440</b> (Jung- bluth) Agricultural Production and Residues	<ul> <li>3202-410 (Fangmeier) Ecotoxicology and Environmental Analytics</li> </ul>	<ul> <li>3103-440 (Streck)</li> <li>Matter Cycling in Agro- Ecosystems</li> </ul>	<ul> <li>4602-460 (Hölzle)</li> <li>Environmental Micro- biology, Parasitology</li> </ul>	<ul> <li>3004-410 (Tremp) Inland Water Ecosystems</li> </ul>	
	VB● <b>1503-410</b> (Kohlus) Food Technology and Residues	<ul> <li>3802-410 (Sauerborn) Ecology and Agroecosystems</li> </ul>	● 4403-580 (Müller, J.) Water and Soil Manage- ment in Agric. Production	<ul> <li>3202-420 (Fangmeier) Global Change Issues</li> </ul>	● <b>3003-410</b> (Schöne) Food Safety and Quality Chains (February 12-22,	<ul> <li><b>3301-460</b> (Müller, T.) Exercises in Plant Nutrition (after B5)</li> </ul>
	<ul> <li>3202-430 (Fangmeier) Air Pollution and Air Pollution Control</li> </ul>		O <b>4902-420</b> (Brockmeier) International Food and Agri- cultural Trade		6 hours per day)	
M. Sc. EnvEuro (first year and	4402-440 (Jungbluth) Agricultural Production and Residues	O <b>3202-410</b> (Fangmeier) Ecotoxicology and Environmental Analytics	<ul> <li>3103-440 (Streck)</li> <li>Matter Cycling in Agro- Ecosystems</li> </ul>	<ul> <li><b>3803-450</b> (Asch)</li> <li>Crop Production Affecting the Hydrological Cycle</li> </ul>	<ul> <li>3004-410 (Tremp) Inland Water Ecosystems</li> </ul>	
elective modules of second year)	○ <b>3202-430</b> (Fangmeier) Air Pollution a Contro	O <b>3802-410</b> (Sauerborn) Ecology and Agroecosystems	O <b>4403-580</b> (Müller, J.) Water and Soil Manage- ment in Agric. Production	O <b>4602-460</b> (Hölzle) Environmental Micro- biology, Parasitology …		
	Farm System Modelling O 4901-420 (Zeller) Po-			● 3202-420 (Fangmeier) Global Change Issues		
	verty and Dev. StrategiesO 3101-410(Stahr) Soil			4904-430 (Berger) Land Use Economics		

## Blocked Modules Summer Semester 2013

E Compulsory	I = Semi-elective	∕e O= Ele	ctive			
Period	<b>6</b> (17 days)	<b>7</b> (17 days)	<b>8</b> (17 days)	<b>9</b> (17 days)	<b>10</b> (17 days)	
Study Course	02.04 24.04.2013 (unblocked: 08.04.!)	25.04. – 17.05. + 27.05 28.05.2013	29.05 21.06.2013	24.06 16.07.2013	17.07 08.08.2013	by Arrangement
M. Sc. AgEcon		<ul> <li>4101-410 (Lippert) Environmental and Resource Economics</li> </ul>	● <b>4201-410</b> (Grethe) Agricultural and Food Policy	<ul> <li>4903-500 (Birner) Poli- cy Processes in Agric. + Nat. Resource Manag.</li> </ul>	<ul> <li>4903-470 (Birner) Qual.</li> <li>Research Methods i.Rural Development Studies</li> </ul>	
M. Sc. AgriTropics	<ul> <li>3803-470 (Asch)</li> <li>Interdisciplinary Practical</li> <li>Science Traíning</li> <li>(AgriTropics only!)</li> </ul>	O <b>4901-430</b> (Zeller) Rural Development Policy and Institutions	<ul> <li>○ 4201-410 (Grethe) Agri- cultural and Food Policy</li> <li>○ 3802-420 (Sauerborn)</li> </ul>	O 4403-470 (Müller, J.) Renewable Energy f. Rural Areas	O <b>4902-430 (</b> Brockmeier) Food and Nutrition Security	
		O 3801-430 (Cadisch) Integrated Agricultural Production Systems	Biodiversity, Plant and Animal Gen. Resources O 4403-550 (Müller, J.)	O <b>4801-420</b> (Valle Zárate) Promotion of Livestock in trop. Environments	O <b>3803-430</b> (Asch) Ecophysiology of Crops in the T+S	
	→ 4802-430 (Focken) Integration of Aquacult. in Agricult. Farm. Systems	<del>⊖ <b>4801-410</b> (Valle</del> <del>Zárate)</del> next time in B1, in WS 13/14!!	Postharvest Technology of Food and Bio-Based Prod. → <b>4801-420</b> (Valle Zárate) → <b>4802-450</b> (Dickhöfer) Quant. Meth. in Anim. Nutrition + Veget. Scienc.		O 4602-450 (Hölzle) Food Safety a. Drinking Water Quality related to Zoonoses in the T+S	
M. Sc. Crop Sciences	O <b>4407-430</b> (Griepentrog) Precision Farming		<b>4 3602-460</b> (Gerhards) Information Technologies and Expert Systems		○ 3603-500 (Zebitz) Exercises in Biological Pest Control	
M. Sc. EnviroFood	<ul> <li>3102-440 (Kandeler)</li> <li>Environmental Pollution and Soil Organisms</li> </ul>	● <b>3103-450</b> (Streck) Spatial Data Analysis with GIS	<ul> <li>3802-420 (Sauerborn) Biodiversity, Plant and Animal Gen. Resources</li> <li>4403-550 (Müller, J.) Postharvest Technology of Food &amp; Bio-Based Prod.</li> </ul>	<ul> <li>3103-460 (Streck)</li> <li>Environmental Science Project</li> <li>4403-470 (Müller, J.)</li> <li>Renewable Energy for Rural Areas</li> </ul>		
M. Sc. EnvEuro (first year)	<ul> <li>3102-440 (Kandeler)</li> <li>Environmental Pollution and Soil Organisms</li> </ul>	● <b>3103-450</b> (Streck) Spatial Data Analysis with GIS	• 3802-420 (Sauerborn) Biodiversity, Plant and Animal Gen. Resources	O <b>3103-460</b> (Streck) Environmental Science Project		
				O 4403-470 (Müller, J.) Renewable Energy for Rural Areas		
				O <b>3101-430</b> (Stahr) Interdiscipl. Adv.Soil Science Project (Engl.+ Ger		
M. Sc. OrganicFood		<ul> <li>4801-480 (Valle Zára- te) Organic Livestock</li> <li>Farming and Products</li> </ul>		<ul> <li>4801-480 (Valle Zára- te) Organic Livestock</li> <li>Farming and Products</li> </ul>		
<b>M. Sc. Saiwam</b> (Hohenheim)	◆4802-430 (Focken) Integration of Aquaculture in Agricult. Farming Systems	●3103-450(Streck) Spa- tial Data Analys.with GIS ● 4901-430 (Zeller) Ru- ral Dev. Policy and Instit.	O <b>3101-460</b> (Stahr) Mapping Course		<ul> <li>4903-470 (Birner)</li> <li>Qualitative Research</li> <li>Methods in Rural</li> <li>Development Studies</li> </ul>	<ul> <li>3101-520 (Stahr) Inte disciplinary Study Project,unblocked!</li> </ul>

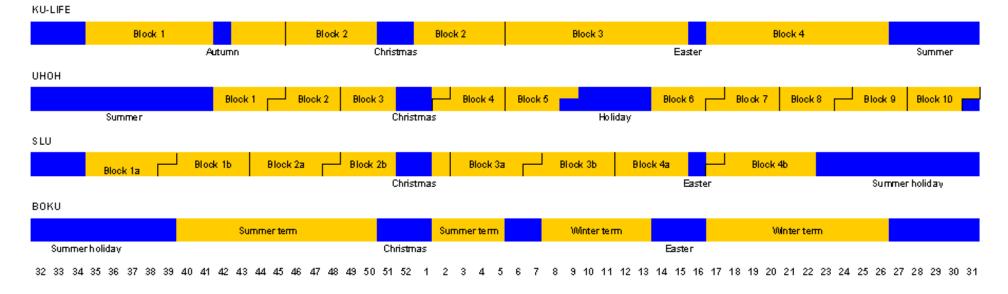
Check module descriptions to find out how to register for participation in the respective module: (<u>https://www.uni-hohenheim.de/module-catalogue</u>).

## Unblocked Modules taught in English at the Faculty of Agricultural Sciences

• = Pflicht/Compulsory 

 $\bigcirc$  = Wahl/Elective

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AgEcon	Agri- Tropics	p Bnc	EnvEuro	a i	Organic- Food	
٩ġ	\gr ro	C ie	Š	2 0	oo oo	Unblocked Modules in Winter Semester (October - February)
			ш	ᄪᇤ	ОШ	
0	0	0			0	1201-410 (Wulfmeyer) Remote Sensing
-	-	-		-	-	3005-410 (Fangmeier) 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 (not in WS 12/13)
0	0	0	0	0	0	3301-440 (Müller, T.) Soil Fertility and Fertilisation in Organic Farming
0	0	0	0	0	0	3301-470 (Müller, T.) Fertilisation and Appl. Soil Chemistry in the T+S (e-learning!)
0	0			0	0	3302-450 (Neumann) Plant Symbioses for Nutrient Acquisition
0	0			0	0	3302-460 (Ludewig) 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		3405-460 (Zikeli) Processing and Quality of Organic Food
0	0	0		0		3405-470 (Zikeli) Organic Food Systems and Concepts
-	-	-	-	-		3405-500 (Zikeli) Principles of Organic Food Systems (for EurOrganic only!)
0	0			0	0	<b>3501-470</b> (Melchinger) Selection Theory
						<b>3502-440</b> (Schmid) Methods of Scientific Working for Crop Sciences
0	0			0	0	<b>3502-450</b> (Schmid) Population and Quantitative Genetics
0	0			0	0	<b>3504-430</b> (Kruse) Seed Research
0	0			0	0	<b>3601-450</b> (Vögele) Phytopathology
0	0			0	0	3602-450 (Gerhards) Molecular Aspects of Plant Protection
0	0			0	0	3603-480 (Zebitz) Entomology
0	0			0	0	<b>3603-470</b> (Zebitz) Ecology of Insects (replaced by: 3603-490 Biological Pest Control)
0	0	0				4201-440 (Grethe) Economics and Environmental Policy
0	0	0		0		<b>4303-440</b> (Bellows) Social Conditions of Organic and Sustainable Agriculture
0	0	0	0	0	0	<b>4303-490</b> (Bellows) Ethics of Food and Nutrition Security
0	0	0			0	<b>4406-410</b> (Kranert) Waste Management and Waste Techniques
	0	0	-	0	0	<b>4904-410</b> (Berger) Agricultural Economics Seminar
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AgEcon	Agri- Tropics	Sci.	EnvEuro	i j	Organic- Food	Unblocked Modules in Summer Semester (April - July)
					0 1	
•	•	-			-	3005-420 (Fangmeier)Climate Change Impacts, Adaptation a. Mitigation (EnvEuro !)
$\oplus$	Φ	$\oplus$	$\ominus$	0	$\ominus$	<b>3101-430</b> (Stahr) Interdisciplinary Adv. Soil Science Project ( <i>Engl.+Ger.</i> ) block 9!
0	0	0	0	0	0	3101-440 (Stahr) Soil Genesis, Classification and Geography (English + German)
0	0	0	0	0	0	<b>3101-450</b> (Stahr) Major Pedological Field Trip ( <i>English</i> + <i>German</i> )
0	0	0	0	0	0	3102-420 (Kandeler) Project in Soil Sciences (English + German)
0	0	0		0	0	3301-470 (Müller, T.) Fertilisation and Appl. Soil Chemistry in the T+S (e-learning!)
0	0	0	0	0	0	3401-450 (Claupein) Conservation Agriculture
0	0	0		0		3401-460(Claupein) Organic Plant Production
0	0			0	0	3402-450 (Piepho) Advanced Statistical Methods for Metric and Catagorical Data
0	0	0		0	0	3405-450 (Zikeli) Problems and Perspectives of Organic Farming
0	0	0		0		3405-490 (Zikeli) Project in Organic Agriculture and Food Systems
0	0			0	0	3501-450 (Melchinger) Breeding Methodology
0	0	0		0	0	3603-420 (Zebitz) Crop Protection in Organic Farming
		$\ominus$		$\ominus$	$\ominus$	3603-490 (Zebitz) Biological Pest Control (→ WS!)
0	0			0	0	3703-430 (Wünsche) Crop – Environment Interactions
	0	0		0	0	4202-450 (Becker. T.) Microeconomics
0	0	0		0		4202-460 (Becker. T) Markets and Marketing of Quality Food
	0	0			0	<b>4303-470</b> (Bellows) Gender, Nutrition, and Right to Food
H	0	0			0	<b>4303-480</b> (Bellows) Global Nutrition
0	$\cup$	$\sim$ .		•		
0 -	•	-	-	-	-	4903-460 (Birner) Methods in Interdisciplinary Collaboration (for AgriTropics only!)

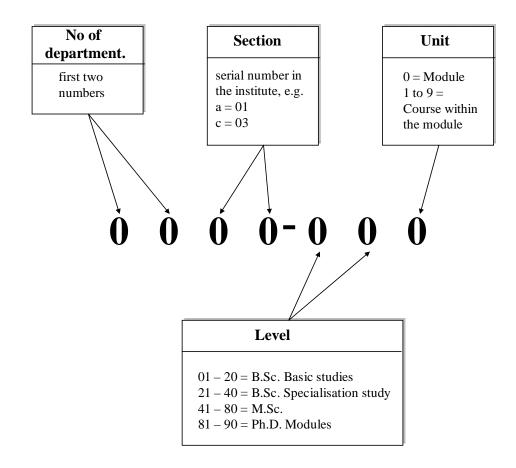


## Scheme showing the semester structures at the four partner universities during all calendar weeks

Holiday

Semester

## **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**

WS 12/13	First day of <u>un</u> blocked modules:	(42. KW) Monday, 15.10.2012
	First day of blocked modules:	(42. KW) Monday, 15.10.2012
	Last day of <u>un</u> blocked modules:	(5. KW) Saturday, 02.02.2013
	Last day of blocked modules:	(9. KW) Monday, 25.02.2013
SS 13	First day of blocked modules:	( <u>14. KW</u> ) Tuesday, 02.04.2013
	First day of <u>un</u> blocked modules:	( <u>15. KW</u> ) Monday, 08.04.2013
	Last day of <u>un</u> blocked modules:	(29. KW) Saturday, 20.07.2013
	Last day of blocked modules:	( <u>32. KW</u> )Thursday,08.08.2013

**Free of lectures:** All Saints' Day: 01.11.2012, Christmas holidays: 24.12.2012 – 05.01.2013 (blocks: 22.12.12 – 05.01.13), Easter holidays: 29.03. – 01.04.2013, Labour Day: 01.05.2013, Ascension Day: 09.05.2013, Pentecost holidays: 21.05.2013 –25.05.2013 (except excursions), Feast of Corpus Christi: 30.05.2013. The "Dies Academicus" (date not yet known!) will be free of lectures too!

### Examination periods in winter semester 2012/13

B.Sc. and M.Sc. period 1:	calendar week 6 to 8
B.Sc. and M.Sc.: period 2:	calendar week 13 to 14
Deadline for the registration for exams:	is fixed by the examination office

#### **Examination periods in summer semester 2013**

B.Sc. and M.Sc. period 1:	calendar week 30 to 32
B.Sc. and M.Sc.: period 2:	calendar week 39 to 41
Deadline for the registration for exams:	is fixed by 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).