



Environmental Science - Soil, Water  
and Biodiversity  
Master of Science

Curriculum



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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. program „Environmental Science – Soil, Water and Biodiversity“ (EnvEuro – a European Master in Environmental Science). It contains information on the program structure, summarises the most important exam regulations and admission requirements (issued the 16th of May 2014 including all changes until 29<sup>th</sup> of July 2015).

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 coordinator of the program ([enveuro@uni-hohenheim.de](mailto:enveuro@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](http://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 on the university's homepage: [www.uni-hohenheim.de](http://www.uni-hohenheim.de).

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## The Master's Program „Environmental Science – Soil, Water and Biodiversity“

### Program Design

The M.Sc. program in „Environmental Science – Soil, Water and Biodiversity“ (EnvEuro) is a two-year study program which has been developed and is 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 Life Science Vienna (Austria), all members of the “Euroleague for Life Sciences”. The language of instruction is English.

The full program 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 UCPH University in Copenhagen, in which participation is obligatory. 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. program 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.

### Program Design of the M.Sc. „EnvEuro”

University of Hohenheim Home university		Host university (UCPH / SLU / BOKU)	
First Semester: Basic Semester Package/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
Introduction week and EME module (e-learning based), 15 ECTS	2 ½ modules each 6 ECTS 15 ECTS	<b>Environmental Impacts</b> 30 ECTS	UCPH or SLU or BOKU 30 ECTS
		<b>Environmental Management</b> 30 ECTS	
		<b>Soil Resources and Land Use</b> 30 ECTS	
		<b>Climate Change</b> 30 ECTS	
		<b>Ecosystems and Biodiversity</b> 30 ECTS	
		<b>Water Resources</b> SLU or BOKU, 30 ECTS	
		<b>Environmental Impacts</b> UCPH, 30 ECTS	
		<b>Soil Resources and Land Use</b> UCPH or SLU or BOKU, 30 ECTS	
		<b>Ecosystems and Biodiversity</b> SLU or BOKU, 30 ECTS	
		<b>Environmental Management</b> UCPH, 30 ECTS	
		<b>Climate Change</b> UCPH or SLU or BOKU, 30 ECTS	

UCPH = University of Copenhagen, Faculty of Life Sciences, Denmark

SLU = Swedish University of Agricultural Sciences, Sweden

BOKU = University of Natural Resources and Life Science, Austria

### ***Program Objectives and Conditions***

The program EnvEuro focuses on the relationships between natural resource 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 program as water quantities and quality is a powerful measure of mass and energy balances in agriculture, industries and households including pollution loads. Six different specializations allow for an individually tailored M.Sc. program. The University of Hohenheim provides an excellent platform for development of a M.Sc. program 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. program 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 University of Hohenheim***

EnvEuro starts each year in the end of August with a compulsory intensive introduction course in Copenhagen. Afterwards students return to Hohenheim for the modules of the basic semester package (BSP). The BSP at Hohenheim consists of three compulsory modules and one elective module:

The modules of the first and third semester last the full length of the semester. The modules of the second semester are offered as blocked courses, each including three weeks of instruction, one week of individual preparation, and an exam at the end of week four.

At the University of Hohenheim each module of 6 credits corresponds to a workload of 4 SWS (weekly contact hours per semester), which is 56 contact hours per module. Each module of 7.5 credits corresponds to a workload of 5 SWS (weekly contact hours per semester), which is 70 contact hours per module. In addition, time for preparation at home is needed, summing up to a total workload of about 160 hours for one module of 6 credits and 200 hours for one module of 7.5 credits. Each module may consist of different forms of teaching (e.g. seminar, lecture, practical, excursions).

The **compulsory modules (BSP)** (24 credits)

<b>Sem</b>	<b>Code</b>	<b>Name of Module</b>	<b>Duration</b>	<b>Credits</b>	<b>Professor</b>
1	3005-410	Environmental Management in Europe (EME)	Intro-week + e-learning 1 Semester	15	Fangmeier
1	3103-510	Environmental Modelling	1 Semester	6	Streck
1	3402-420	Quantitative Methods in Bioscience (Part 1: Basic Statistics)	1 Semester	3	Piepho

One module (at least 6 credits) may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences.

On request to the examination board and with the approval of a mentor, modules can be chosen from other master programs of the University of Hohenheim (see: [www.uni-hohenheim.de/modulkatalog](http://www.uni-hohenheim.de/modulkatalog)). Modules which have already been examined may not be chosen for a second time.

Particularly recommended **elective modules**  
(6 credits in elective modules are necessary):

Sem	Code	Name of Module	Duration	Credits	Professor
1	3004-410	Inland Water Ecosystems*	1 Semester	6	Tremp
1	3201-640	Applied Limnology*	1 Semester	6	Schmieder
1	3201-630	GIS and Remote Sensing in Landscape Ecology	1 Semester	6	Schmieder
1	3201-610	Project in Landscape Ecology	1 Semester	6	Schurr
1	3202-420	Global Change Issues	1 Semester	6	Fangmeier
1	<del>3202-430</del>	<del>Air Pollution and Air Pollution Control</del>	<del>1 Semester</del>	6	<del>Fangmeier</del>
1	3502-450	Population and Quantitative Genetics	1 Semester	6	Schmid
1	3802-410	Ecology and Agroecosystems*	1 Semester	6	Rasche
1	4602-460	Environmental Microbiology, Parasitology and Microbial Ecology	1 Semester	6	Hölzle
1-4	3000-410	<a href="#">Portfolio-Module (Master)</a>	Not defined	1 - 7,5	Müller, T.

\* Please register for participation in the week before the lecture period starts.

In the second semester students have to choose one of the following specializations 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 at least 30 credits are achieved. Besides the compulsory modules, priority should be given to the semi-elective modules. Students may choose elective modules 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 compulsory and semi-elective modules of ASP1 at Hohenheim are:**

#### *Specialization Environmental Impacts*

Sem	Code	Compulsory Module	Duration	Credits	Professor
2	3103-450	Spatial Data Analysis with GIS**	SS, block 1	7.5	Streck
Sem	Code	Semi-elective Modules (two to choose)	Duration	Credits	Professor
2	3802-420	Biodiversity, Plant and Animal Genetic Resources	SS, block 2	7.5	Rasche
2	3101-560	Soils of the World	SS, block 2	7.5	Rennert
2	3803-450	Crop Production Affecting the Hydrological Cycle	SS, block 3	7.5	Asch
2	3101-570	Field Course Soils and Vegetation	SS, block 3	7.5	Herrmann
2	4403-410	<a href="#">Irrigation and Drainage Technology</a>	SS, block 4	7.5	Müller, J.
2	3103-460	Environmental Sc.Project*	SS, block 4	7.5	Streck

\*\* Please register for participation at least two weeks before the lecture period starts.

\* Please register for participation in the week before the lecture period starts.

<b>Elective module (one to choose)</b>					
One module with 7.5 ECTS may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences					

### *Specialization Environmental Management*

Sem	Code	Compulsory Module	Duration	Credits	Professor
2	3103-450	Spatial Data Analysis with GIS**	SS, block 1	7.5	Streck
Sem	Code	Semi-elective Modules (two to choose)	Duration	Credits	Professor
2	3801-430	Integrated Agricultural Production Systems	SS, block 2	7,5	Cadisch
2	3802-420	Biodiversity, Plant and Animal Genetic Resources	SS, block 2	7,5	Rasche
2	4403-470	Renewable Energy for Rural Areas	SS, block 3	7,5	Müller, J.
2	4403-410	<a href="#">Irrigation and Drainage Technology</a>	SS, block 4	7.5	Müller, J.
2	3103-460	Environmental Sc.Project*	SS, block 4	7,5	Streck

\*\* Please register for participation at least two weeks before the lecture period starts.

\* Please register for participation in the week before the lecture period starts.

<b>Elective module (one to choose)</b>					
One module with 7.5 ECTS may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences					

### *Specialization Soil Resources and Land Use*

Sem	Code	Compulsory Module	Duration	Credits	Professor
2	3103-450	Spatial Data Analysis with GIS**	SS, block 1	7.5	Streck
Sem	Code	Semi-elective Modules (two to choose)	Duration	Credits	Professor
2	3301-480	Fertilization and Soil Fertility Management in the Tropics and Subtropics	e-learning	7.5	Müller, T.
2	3101-560	Soils of the World	SS, block 2	7.5	Rennert
2	3102-440	Environmental Pollution and Soil Organisms *	SS, block 2	7.5	Kandeler
2	3803-450	Crop Production Affecting the Hydrological Cycle	SS, block 3	7.5	Asch
2	3101-570	Field Course Soils and Vegetation	SS, block 3	7.5	Herrmann
2	4403-410	<a href="#">Irrigation and Drainage Technology</a>	SS, block 4	7.5	Müller, J.
2	3103-460	Environmental Sc.Project*	SS, block 4	7.5	Streck

\*\* Please register for participation at least two weeks before the lecture period starts.

\* Please register for participation in the week before the lecture period starts.

<b>Elective module (one to choose)</b>					
One module with 7.5 ECTS may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences					

### *Specialization Climate Change*

Sem	Code	Compulsory Module	Duration	Credits	Professor
2	3103-450	Spatial Data Analysis with GIS**	SS, block 1	7.5	Streck
Sem	Code	Semi-elective Modules (two to choose)	Duration	Credits	Professor
2	3802-420	Biodiversity, Plant and Animal Genetic Resources	SS, block 2	7.5	Rasche
2	3803-450	Crop Production Affecting the Hydrological Cycle	SS, block 3	7.5	Asch
2	4403-470	Renewable Energy for Rural Areas	SS, block 3	7.5	Müller, J.
2	4403-410	<a href="#">Irrigation and Drainage Technology</a>	SS, block 4	7.5	Müller, J.
2	3803-430	Ecophysiology of Crops in the Tropics and Subtropics	SS, block 4	7.5	Asch
2	3103-460	Environmental Sc.Project*	SS, block 4	7.5	Streck

\*\* Please register for participation at least two weeks before the lecture period starts.

\* Please register for participation in the week before the lecture period starts.

<b>Elective module</b> (one to choose)
One module may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences

### *Specialization Ecosystems and Biodiversity*

Sem	Code	Compulsory Module	Duration	Credits	Professor
2	3103-450	Spatial Data Analysis with GIS**	SS, block 1	7.5	Streck
Sem	Code	Semi-elective Modules (two to choose)	Duration	Credits	Professor
2	3201-590	Combining Ecological Models and Data	SS, block 2	7.5	Schurr
2	3802-420	Biodiversity, Plant and Animal Genetic Resources	SS, block 2	7.5	Rasche
2	3101-570	Field Course Soils and Vegetation	SS, block 3	7.5	Herrmann
2	3103-460	Environmental Sc.Project*	SS, block 4	7.5	Streck
2	3201-600	Intensive Course Landscape Ecology	SS, block 4	7.5	Schurr

\*\* Please register for participation at least two weeks before the lecture period starts.

\* Please register for participation in the week before the lecture period starts.

<b>Elective module</b> (one to choose)
One module may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences



**Module Descriptions**

For the contents of all modules see: [www.uni-hohenheim.de/modulkatalog](http://www.uni-hohenheim.de/modulkatalog)

**Individual Timetable**

The Course Catalogue of the University of Hohenheim contains information on times, lecturers and lecture rooms of all courses and is available at the beginning of each semester online at the university's homepage: [www.uni-hohenheim.de](http://www.uni-hohenheim.de). It is linked to the module descriptions. A tool to compose an individual timetable is available on the Intranet. Mind: especially non-blocked modules often consist of more than one course.

**Credit Point System**

The M.Sc. program has a total requirement of 120 ECTS credits. The credit point system used in the M.Sc. program is fully compatible with the European Credit Transfer System, ECTS.

The examination result is expressed in grades and marks. The highest score is 1.0 [grade A]. A score of 4.0 [grade D] is required for passing.

The end score is calculated as a weighted average score according to the credits achieved in all modules and the Master Thesis.

	marks and grades		
		grades	mark
<i>excellent performance</i>	<i>very good</i>	A	1.0
		A-	1.3
<i>performance considerably exceeding the above average standard</i>	<i>good</i>	B+	1.7
		B	2.0
		B-	2.3
<i>performance meeting the average standard</i>	<i>medium</i>	C+	2.7
		C	3.0
		C-	3.3
<i>performance meeting minimum criteria</i>	<i>pass</i>	D+	3.7
		D	4.0
<i>performance not meeting minimum criteria</i>	<i>fail</i>	F	5.0

**Counselling Confirmation**

Students have to seek advice of the mentor of the program on which elective modules are suitable for their individual profile. During the first three months of study, a counselling confirmation has to be signed by a coordinator or mentor and handed in to the examination office, before registration for module examination is possible. All examinations have to be registered by the students. After registration for 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. Withdrawal from the first trial of each module examination is possible until 7 days before the examination date. The examination will be postponed to the next possible examination period.

The claim for examination expires if:

- an examination of one of the modules has not been passed by the end of the seventh 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; mark 4.0). 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 fieldwork, 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 programs. 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 Hohenheim***

Most modules are organized and taught by professors who have broad experience in international research. Students also benefit from Hohenheim's active 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 counselling confirmation 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 mentor of the program.

### ***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 19).

The modules of the other partner universities can be found at:

<http://www.enveuro.eu/Master-program/Specializations-and-courses.aspx>

## Hohenheim's ASP 2

The modules offered for incoming students for whom Hohenheim is the host university are listed below.

The modules in ASP2 comprise two types of modules: semi-elective, and elective. Students have to combine semi-elective modules of their specialization so that a minimum of 24 credits is achieved. In addition, 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 specializations by modules from other master programs of the University of Hohenheim. This substitution needs the approval of the mentor.

### ***Specialization: Environmental Impacts***

Sem	Code	Semi-elective Modules (four to choose)	Duration	Credits	Professor
3	3202-410	Ecotoxicology and Environmental Analytics	1 semester	6	Fangmeier
3	3202-420	Global Change Issues	1 semester	6	Fangmeier
<del>3</del>	<del>3202-430</del>	<del>Air Pollution and Air Pollution Control</del>	<del>1 semester</del>	<del>6</del>	<del>Fangmeier</del>
3	3004-410	Inland Water Ecosystems*	1 semester	6	Tremp
3	3802-410	Ecology and Agroecosystems*	1 semester	6	Rasche
3	4402-440	Agricultural Production and Residues	1 semester	6	Gallmann
3	4406-410	Waste Management and Waste Techniques	1 semester	6	Kranert

\* Please register for participation in the week before the lecture period starts.

<b>Elective module (one to choose)</b>					
One module with 6 ECTS may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences					

### ***Specialization: Environmental Management***

Sem	Code	Semi-elective Modules (four to choose)	Duration	Credits	Professor
3	4904-460*	Farm System Modelling	First half of semester	6	Berger
3	4901-420*	Poverty and Developmental Strategies**	Second half of semester	6	Zeller
3	3004-410	Inland Water Ecosystems**	1 semester	6	Tremp
3	4201-440	Economics and Environmental Policy	1 semester	6	Grethe
3	4406-410	Waste Management and Waste Techniques	1 semester	6	Kranert

\* It is recommended to combine these two modules.

\*\* Please register for participation in the week before the lecture period starts.

<b>Elective module (one to choose)</b>					
One module with 6 ECTS may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences					

**Specialization Soil Resources and Land Use**

Sem	Code	Semi-elective Modules (at least 24 credits to choose)	Duration	Credits	Professor
3	3301-480	Fertilization and Soil Fertility Management in the Tropics and Subtropics	1 semester e-learning	6	Müller, T.
3	3103-510	Environmental Modelling	1 semester	6	Streck
3	3102-410	Env. Microbiology	1 semester	6	Kandeler
3	3102-420	Project in Soil Sciences	n.V.	7.5	Kandeler
3	3301-440	Soil Fertility and Fertilization in Organic Farming	1 semester	6	Müller, T.
3	3005-420	Climate Change Impacts, Adaptation and Mitigation	1 semester e-learning	15	Fangmeier
3	3803-500	Natural Resource Use and Conservation in the Tropics and Subtropics	1 semester	6	Asch
<b>Elective module (one to choose)</b>					
One module with 6 ECTS may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences					

**Specialization: Climate Change**

Sem	Code	Compulsory Module	Duration	Credits	Professor
3	3005-420	Climate Change Impacts, Adaptation and Mitigation	1 semester e-learning	15	Fangmeier
Sem	Code	Semi-elective Modules (two to choose)	Duration	Credits	Professor
3	1201-580	Physics of the Earth System	1 semester	6	Wulfmeyer
3	3202-420	Global Change Issues	1 semester	6	Fangmeier
3	3103-510	Environmental Modeling	1 semester	6	Streck
3	3004-410	Inland Water Ecosystems*	1 semester	6	Tremp

\* Please register for participation in the week before the lecture period starts.

<b>Elective module (one to choose)</b>					
One module with 6 ECTS may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences					

**Specialization: Ecosystems and Biodiversity**

Sem	Code	Semi-elective Modules (four to choose)	Duration	Credits	Professor
3	3004-410	Inland Water Ecosystems*	1 semester	6	Tremp
3	3201-610	Project in Landscape Ecology	1 semester	6	Schurr
3	3201-630	GIS and Remote Sensing in Landscape Ecology	1 semester	6	Schmieder
3	3802-410	Ecology and Agroecosystems*	1 semester	6	Rasche
3	3103-510	Environmental Modelling	1 semester	6	Streck
3	3502-450	Population and Quantitative Genetics	1 semester	6	Schmid

\* Please register for participation in the week before the lecture period starts.

### **Elective module** (one to choose)

One module with 6 ECTS may be freely chosen from the module catalogue of all master courses of the Faculty of Agricultural Sciences and the Faculty of Natural Sciences

- Double Degree*** On successful completion of the M.Sc. program 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 program if the total grade is above average.
- Admission Requirements*** Admission to the M.Sc. program 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 90 points in the internet-based TOEFL Test).
- Application Deadline*** The application deadline for Non-EU-citizens is 15<sup>st</sup> January each year and for EU-citizens it is 1<sup>st</sup> of April 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 158,20 € 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 organizations.  
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 250 € to 400 € per month, depending on the size of the flat and distance from the University or the city of Stuttgart.
- Dormitories*** Most 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 usually have to be shared with other students. The rent varies in between 210 and 270,- € per room per month, depending on the room and dormitory itself. A caution fee of 400,- € 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 admission letter has been received. The admission letter will certify that knowledge of the German language is not required for participation in the Hohenheim Master program.

The basic requirements for a student visa are the following: valid passport, photographs, proof of high school diploma / previous university study, admission letter 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***

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# Geblockte Module der Fakultät Agrarwissenschaften für das Wintersemester 2015/16

## Blocked Modules in Winter Semester 2015/16

27.08.2015

● = Pflicht/Compulsory    ◐ = Wahlpflicht/Semi-elective    ○ = Wahl/Elective

Blockperiode / Period	Block 1 (7.5 credits!)	Block 2 (7.5 credits!)	Block 3 (7.5 credits!)	Block 4 (7.5 credits!)	März-Block/ March Block (6 credits!)
Studiengang / Study Course	12.10. - 06.11.2015	09.11. - 04.12.2015	07.12.15 – 22.12.15/ 07.01. – 15.01.2016	18.01. - 12.02.2016	
<b>B.Sc. Agrarwissenschaften</b>					◐ 4402-210 (Jungbluth) Planung von Nutztierhaltungssystemen (29.02.-22.03.16) ○ 4701-220 (Weiler) Nutztiersystemmanagement – Schwein (29.02.-22.03.16)
<b>M.Sc. Agrarwissenschaften Tierwissenschaften</b>					◐ 4502-410 (Mosenthin) Futterwertbeurteilung, Futtermittelmikrobiologie und –mikroskopie (29.02.-22.03.16)
<b>M.Sc. EnviroFood</b>					◐ 3003-410 (Schöne) Food Safety and Quality Chains (29.02.-11.03. + 22.03.16)
<b>M.Sc. Landscape Ecology</b>	● 3201-560 (Schurr) Landscape Ecology	● 3201-570 (Schurr) Community and Evolutionary Ecology	● 3201-580 (Schurr) Conservation Biology	● 3202-440 (Fangmeier) Plant Ecology	
<b>M.Sc. Crop Sciences</b> (3.Sem., blocked semester package)	○ 3000-410 (Müller, T.) Portfolio Module (Master)	○ 2601-410 (Schaller) Pflanze-Pathogen Interaktionen (5 Plätze für CS)	○ 2602-500 (Schulze) Regulatorische Prinzipien pflanzlicher Signaltransduktionswege (5 Plätze für CS)	◐ <del>3503-460</del> (Scholten) Molecular Plant Genetics 2203-410 (Steidle) <a href="#">Chemische Signale bei Tieren</a>	○ 3103-410 (Streck) Plant and Crop Modeling (07.03.-17.03.16)
<b>Sonstige M.Sc./Other M.Sc.</b>					○ 4802-470 (Focken) Experimental Aquaculture (07.-18.03.16 at Ahrensburg)
					○ 4303-470 (Lemke) Gender, Nutrition, and Right to Food (29.02.-22.03.16)

Anmeldemodalitäten für Teilnahme siehe Modulkatalog / Check module descriptions for how to register for participation (<https://www.uni-hohenheim.de/modulkatalog.html>)

# Blocked Modules in Summer Semester 2016

27.08.2015

● = Pflicht/Compulsory   ◄ = Wahlpflicht/Semi-elective   ○ = Wahl/Elective

Blockperiode / Period	Block 1 (7,5 credits)	Block 2 (7,5 credits)	Block 3 (7,5 credits)	Block 4 (7,5 credits)	By arrangement (7,5 credits)
Studiengang / Study Course	04.04. - 29.04.2016	02.05. - 13.05. / 23.05. - 03.06.2016	06.06. - 01.07.2016	04.07. - 29.07.2016	
<b>M.Sc. Agrarwissenschaften Bodenwissenschaften</b>	◄ 3103-450 (Streck) Spatial Data Analysis with GIS	◄ 3102-440 (Kandeler) Environmental Pollution and Soil Organisms	◄ 3101-580 (Rennert) Bodenschutz, Bodenbewertung, -sanierung	● 3101-430 (Rennert) Integr. bodenw. Projekt f. Fortgeschr. / Interdiscipl. Advanced Soil Science Project (Engl.+ Ger.)	◄ 3102-420 (Kandeler) Bodenwissenschaftliches Experiment/Project in Soil Sciences (Engl.+ Ger.) ○ 3101-450 (Herrmann) Große pedologische Geländeübung / Major Pedological Field Trip (Engl.+ Ger.) (September)
	◄ 3102-450 (Kandeler) Molecular Soil Ecology	◄ 3101-560 (Rennert) Soils of the World	◄ 3101-570 (Herrmann) Boden- und veg.kundl. Geländeübung / Field Course Soils + Vegetation		
	◄ 3201-620 (Schmieder) Vege- tation and Soils of Centr. Europe				
<b>M.Sc. Agrarwissenschaften</b>		○ 4602-500 (Beyer) Biologische Sicherheit und Gentechnikrecht	◄ 7301-410 (Rosenkranz) Bienen	○ 4601-420 (Steffil) Seminar zu klinischen Fallstudien der Spez. Anatomie und Phys. d. Nutztiere	
		○ 7301-400 (Rosenkranz) Soziale Insekten (10 Plätze für Fak. A)	◄ 4701-480 (Stefanski) Verhaltensphysiologie und Immunobiologie		
Tierwissenschaften: Profil Ernährung und Futtermittel	◄ 4502-430 (Mosenthin) Methoden zur Analytik und Qualitätsbeurt. von Futtermitteln	◄ 4601-430 (Rodehutschord) Tracer Techniques in Animal Nutrition		◄ 4501-450 (Rodehutschord.) Spezielle Ernährung Wiederkäuer	
Tierwissenschaften: Profil Genomik und Züchtung		◄ 4702-510 (Bennewitz) Zuchtplanung und Zuchtpraxis i. d. Nutztierwissenschaften	◄ 4608-420 Hasselmann). Molekulare Evolution und Populationsgenetik		
Tierwissenschaften: Profil Gesundheit und Verhalten	◄ 4701-490 (Stefanski) Verhaltensbiologie	◄ 4604-410 (Huber) Anatomiche und physiologische Aspekte in den Nutztierwissenschaften	◄ 4606-420 (Stefanski) Immunologie und Infektionsbiologie	◄ 4602-490 (Hölzle) Spezielle Tierhygiene	
<b>Agrarwissenschaften Agricultural Economics</b>	○ 4202-420 (Becker) Question- naire Design and Data Analysis in SPSS (partly blocked!)				
<b>M.Sc. AgriTropics</b>	● 3803-470 (Asch) Interdiscipl. Practical Science Training (AgriTropics only!)	○ 3802-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	○ 4802-450 (Dickhöfer) Quantitative Meth. in Animal Nutrition + Vegetation Sciences		
Animal		○ 4801-430 (Valle Zárate) Livestock Breeding Programs	○ 4602-450 (Hölzle) Food Safety a. Drinking Water Quality related to Zoonoses in the T+S	○ 4801-420 (Valle Zárate) Promotion of Livestock in Trop. Environments	
Crop		○ 3801-430 (Cadisch) Integrated Agricultural Production Systems	○ 3803-450 (Asch) Crop Production Affecting the Hydrological Cycle	○ 3803-430 (Asch) Ecophysiology of Crops in the Tropics and Subtropics	
		○ 3101-560 (Rennert) Soils of the World	○ 3501-480 (Melchinger) Breeding of Trop., Ornamental, and Vegetable Plants		
Engineering		○ 4403-550 (Müller, J.) Postharvest Technology of Food and Bio-Based Products	○ 4403-470 (Müller, J.) Renewable Energy for Rural Areas	○ 4403-410 (Müller, J.) Irrigation and Drainage Technology	
Economics			○ 4901-410 (Zeller) Rural Deve- lopment Policy and Institutions	○ 1401-530 (Scherbaum) Global Nutrition	

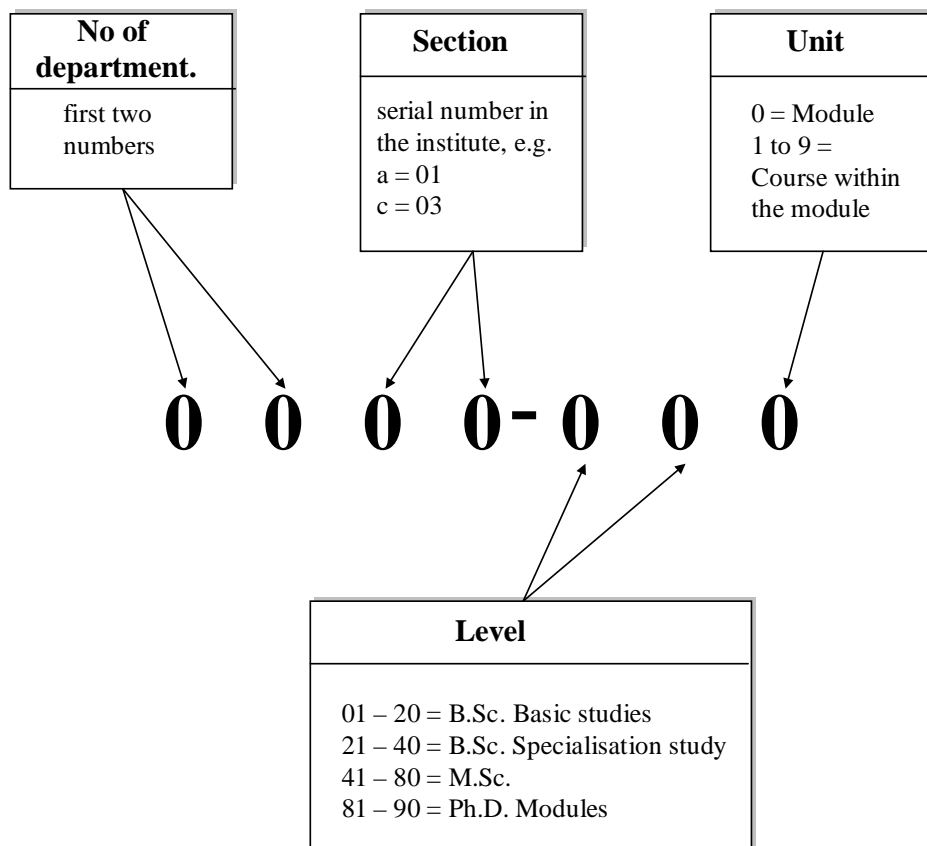


<b>M.Sc. Crop Sciences</b> (blocked semester packages)	○ 2601-430 (Schaller) Entwicklungsbiologie der Pflanzen (5 Plätze für CS)	○ 4602-500 (Beyer) Biologische Sicherheit und Gentechnikrecht		○ 1101-430 (Kügler) Modelling and Simulation of Biochemical Reaction Networks (5 Plätze für CS)	← ○ 2202-400 (Mackenstedt) Pathogens, Parasites and their Hosts, Ecology, Molec. Interactions a. Evolution (8 Pl. UHOH)
	○ 3102-450 (Kandeler) Molecular Soil Ecology	○ 3801-430 (Cadisch) Integr. Agricultural Production Systems	○ 3803-450 (Asch) Crop Prod. Affecting the Hydrological Cycle	○ 3803-430 (Asch) Ecophysiology of Crops in the T+S	○ 3603-500 (Zebitz) Exercises in Biological Pest Control
<b>M.Sc. EnviroFood</b>	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 3102-440 (Kandeler) Environmental Pollution and Soil Organisms	● 4403-470 (Müller, J.) Renewable Energy for Rural Areas	● 3103-460 (Streck) Environmental Science Project	
		○ 3802-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	○ 4602-450 (Hölzle) Food Safety a. Drinking Water Quality related to Zoonoses in the T+S	● 1401-530 (Scherbaum) Global Nutrition	
		● 4403-550 (Müller, J.) Postharvest Technology of Food and Bio-Based Products	○ 1401-490 (Biesalski) Food Security	● 4403-410 (Müller, J.) Irrigation and Drainage Technology	
<b>M.Sc. Landscape Ecology</b>	● 3201-620 (Schmieder) Vegetation and Soils of Centr. Europe	● 3201-590 (Schurr) Combining Ecological Modells and Data	● 3101-570 (Herrmann) Field Course Soils and Vegetation	● 3201-600 (Schurr) Intensive Course Landscape Ecology	
	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 3101-560 (Rennert) Soils of the World	● 3803-450 (Asch) Crop Production Affecting the Hydrological Cycle		
		● 3802-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	○ 4303-4X0 (Bieling) Landscape Change, Nature Conservation and Ecosystem Services		
<b>M.Sc. EnvEuro</b> Environm. Impacts	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 3802-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	● 3803-450 (Asch) Crop Production Affecting the Hydrological Cycle	● 3103-460 (Streck) Environmental Science Project	
		● 3101-560 (Rennert) Soils of the World	● 3101-570 (Herrmann) Field Course Soils and Vegetation	● 4403-410 (Müller, J.) Irrigation and Drainage Technology	
Environm. Management	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 3801-430 (Cadisch) Integrated Agricultural Production Systems	● 4403-470 (Müller, J.) Renewable Energy for Rural Areas	● 3103-460 (Streck) Environmental Science Project	
		● 3802-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	○ 4302-430 (Bieling) Landscape Change, Nature Conservation and Ecosystem Services	● 4403-410 (Müller, J.) Irrigation and Drainage Technology	
Soil Resources and Land Use	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 3101-560 (Rennert) Soils of the World	● 3803-450 (Asch) Crop Production Affecting the Hydrological Cycle	● 3103-460 (Streck) Environmental Science Project	● 3301-480 (Müller, T.) Fertilisation and Soil Fertility Management in the T. and S.
		● 3102-440 (Kandeler) Environmental Pollution and Soil Organisms	● 3101-570 (Herrmann) Field Course Soils and Vegetation	● 4403-410 (Müller, J.) Irrigation and Drainage Technology	○ 3102-420 (Kandeler) Bodenkundl. Experiment/Project in Soil Sciences (Engl.+ Ger.)
Climate Change	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 3802-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	● 3803-450 (Asch) Crop Production Affecting the Hydrological Cycle	● 3103-460 (Streck) Environmental Science Project	
			● 4403-470 (Müller, J.) Renewable Energy for Rural Areas	● 3803-430 (Asch) Ecophysiology of Crops in the T+S	
			○ 4302-430 (Bieling) Landscape Change, Nature Conservation and Ecosystem Services	● 4403-410 (Müller, J.) Irrigation and Drainage Technology	
Ecosystems and Biodiversity	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 3201-590 (Schurr) Combining Ecological Modells and Data	● 3101-570 (Herrmann) Field Course Soils and Vegetation	● 3103-460 (Streck) Environmental Science Project	
		● 3802-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	○ 4302-430 (Bieling) Landscape Change, Nature Conservation and Ecosystem Services	● 3201-600 (Schurr) Intensive Course Landscape Ecology	

# Module Duration within all Master's Programs of the Faculty of Agricultural Sciences

Master's Program		Semester Structure from WS 14/15 on				
Program	Specialization	Language	Winter Semester 1 (Compulsory-/SE)	Summer Semester1 (Compulsory/SE/Elective)	Winter Semester 2 (Compulsory/SE/Elective)	Summer Semester 2
AW	Agrartechnik	German	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
	Bodenwissenschaften	German	Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
	Pflanzenproduktionssysteme	German	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
	Tierwissenschaften	German	Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
Agribusiness		German	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
NawaRo		German	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
Crop Sciences	Plant breeding & seed scien.	English	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
	Plant nutrition & protection		Whole Semester	Package Fak. A and/or N	Package Fak. A or N	Master's-Thesis
AgriTropics		English	Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
AgEcon		English	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
Landscape Ecology		English	4 Weeks Blocked	4 Weeks Blocked	Whole Semester	Master's-Thesis
EnviroFood		English	Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
Bioeconomy		English	Whole Semester	Whole Semester	Package Fak. W/A or N	
<b>Double Degree</b>	<b>Specialization</b>					
EnvEuro	Ecosystems & Biodiversity	English	Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
	Environmental Impacts		Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
	Environmental Management		Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
	Climate Change		Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
	Soil Resources & Land Use		Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
EurOrganic		English	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis

## Explanation of Module Code



# Lecture Periods at UHOH

<b>WS 15/16</b>	<b>First day of <u>un</u>blocked modules:</b>	(42. KW) Monday, 12.10.2015
	<b>First day of blocked modules:</b>	(42. KW) Monday, 12.10.2015
	<b>Last day of <u>un</u>blocked modules:</b>	(5. KW) Saturday, 01.02.2016
	<b>Last day of blocked modules:</b>	(6. KW) Friday, 12.02.2016
<b>SS 16</b>	<b>First day of blocked modules:</b>	(14. KW) Monday, 04.04.2016
	<b>First day of <u>un</u>blocked modules:</b>	(14. KW) Monday, 04.04.2016
	<b>Last day of <u>un</u>blocked modules:</b>	(28. KW) Saturday, 16.07.2016
	<b>Last day of blocked modules:</b>	(30. KW) Friday, 29.07.2016

**Free of lectures:** All Saints' Day: Sun 01.11.2015, Christmas holidays: Wed 23.12.2015 – Wed 06.01.2016, Easter holidays: Fri 25.03. – Mon 28.03.2016, Labour Day: Sun 01.05.2016, Ascension Day: Thu 05.05.2016, Pentecost: Mon 16.05.2016 – Sat 21.05.2016 (excursions might take place during that week!), Feast of Corpus Christi: Thu 26.05.2016. The "Dies Academicus" (01.07.2016) will be free of lectures, too.

## Examination periods in winter semester 2015/16

**B.Sc. and M.Sc. period 1:** calendar week 6 to 8  
**B.Sc. and M.Sc.: period 2:** calendar week 12 to 13  
**Deadline for the registration for exams:** is fixed by the examination office

## Examination periods in summer semester 2016

**B.Sc. and M.Sc. period 1:** calendar week 29 to 31  
**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>).