



UNIVERSITY OF  
HOHENHEIM



Curriculum

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# **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 double degree M.Sc. program „Environmental Science – Soil, Water and Biodiversity“ (EnvEuro – a European Master in Environmental Science). It contains information on the program structure and summarizes the most important exam regulations (issued the 12th of February 2019).

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 double degree 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 (host university).

### Program Design of the M.Sc. „EnvEuro” with Hohenheim as Home University

University of Hohenheim Home university		Host university (UCPH / SLU / BOKU)	
First Semester: Basic Semester Package/BSP		Third Semester: Advanced Sem. Package 2/ASP 2 (one to choose)	Fourth Semester Master thesis
Introduc- tion week and EME module (e-learning based), 15 ECTS	2 ½ modules each 6 ECTS 15 ECTS	<b>Soil Resources and Land Use</b> 30 ECTS	UCPH  or SLU  or BOKU  30 ECTS
		<b>Ecosystems and Biodiversity</b> 30 ECTS	
		<b>Environmental Management</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> UCPH or BOKU, 30 ECTS	
		<b>Environmental Management</b> SLU, 30 ECTS	
		<b>Climate Change</b> UCPH 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 Design of the M.Sc. „EnvEuro” with Hohenheim as Host University**

<b>University of Hohenheim Host university</b>	
<b>Third Semester:</b> Advanced Sem. Package 2/ASP 2 (one to choose)	<b>Fourth Semester</b> Master thesis
<b>Environmental Impacts, 30 ECTS</b>	30 ECTS
<b>Soil Resources and Land Use, 30 ECTS</b>	
<b>Ecosystems and Biodiversity, 30 ECTS</b>	
<b>Environmental Management, 30 ECTS</b>	
<b>Climate Change, 30 ECTS</b>	

***Program Objectives and Conditions***

The EnvEuro program 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 the 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 Master program aims at providing graduates who can work professionally with problem identification, characterisation and solving related to the use of natural resources, and based on insight in European ecosystems and principles used in current European environmental management.

Graduates 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 at 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 (winter semester) last the full length of the semester. The modules of the second semester (summer 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)

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

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

One module (at least 6 credits) may be freely chosen from the module catalogue of all Master's programs 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's programs of the University of Hohenheim (see: [www.uni-hohenheim.de/en/module-catalogue](http://www.uni-hohenheim.de/en/module-catalogue)). 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	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 ( <i>not offered in WS 2019/20</i> )	1 Semester	6	N.N.
1	3502-450	Population and Quantitative Genetics	1 Semester	6	Schmid
1	4906-410	Ecology and Agroecosystems*	1 Semester	6	N.N.
1	4605-430	Microbiological Safety within the Feed and Food Production Chain	1 Semester	6	Hölzle
1-4	3000-410	Portfolio-Module (Master)	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. Two modules have to be chosen from the list of semi-elective modules. Students may choose another elective module from the module catalogue of the Master's programs of the Faculty of Agricultural Sciences (not listed here, available at [www.uni-hohenheim.de/modulkatalog](http://www.uni-hohenheim.de/modulkatalog)).

The compulsory and semi-elective modules of ASP1 at Hohenheim are:

(For the sequences of the blocked modules in Hohenheim's ASP1 see page 15)

**Specialization "Environmental Management" – Agricultural Landscapes**

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	Fertilisation and Soil Fertility Management in the Tropics and Subtropics	e-learning by arrangement	7.5	Müller, T.
2	4905-430	Integrated Agricultural Production Systems	SS, block 2	7.5	Cadisch
2	4905-470	Biodiversity and Genetic Resources	SS, block 2	7.5	Rasche
2	4403-470	Renewable Energy for Rural Areas	SS, block 3	7.5	Müller, J.
2	4302-470	Landscape Change, Resilience, and Ecosystem Services	SS, block 3	7.5	Bieling
2	4403-410	Irrigation and Drainage Technology	SS, block 4	7.5	Müller, J.

\*\* 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.

Recommended Elective Modules (one to choose)					
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, eg					
2	3201-620	Vegetation and Soils of Central Europe	SS, block 2	7.5	Schmieder
2	4907-430	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	3201-600	Intensive Course Landscape Ecology	SS, block 4	7.5	Schurr
2	3000-420	Portfolio Module	by arrangement	7.5	Kruse, M.

**Specialization "Soil Resources and Land Use" – European and Worldwide Views**

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 by arrangement	7.5	Müller, T.
2	3102-420	Project in Soil Sciences** (English + German)	by arrangement	7.5	Kandeler

Sem	Code	Semi-elective Modules (two to choose)	Duration	Credits	Professor
2	3102-440	Environmental Pollution and Soil Organisms*	SS, block 2	7.5	Kandeler
2	3201-620	Vegetation and Soils of Central Europe	SS, block 2	7.5	Schmieder
2	3101-570	Field Course Soils and Vegetation	SS, block 3	7.5	Herrmann
2	4403-410	Irrigation and Drainage Technology	SS, block 4	7.5	Müller, J.

\*\* 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.

Recommended Elective Modules (one to choose)					
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, eg					
2	4905-470	Biodiversity and Genetic Resources	SS, block 2	7.5	Rasche
2	4907-430	Crop Production Affecting the Hydrological Cycle	SS, block 3	7.5	Asch
2	3101-420	International Field Course Site Evaluation (English + German)	September 2020, 2022, 2024, ...	7.5	Herrmann

### ***Specialization “Ecosystems and Biodiversity” – From Genes to Landscapes***

Sem	Code	Compulsory Module	Duration	Credits	Professor
2	3201-590	Combining Ecological Models and Data	SS, block 1	7.5	Schurr
Sem	Code	Semi-elective Modules (two to choose)	Duration	Credits	Professor
2	3201-620	Vegetation and Soils of Central Europe	SS, block 2	7.5	Schmieder
2	4905-470	Biodiversity and Genetic Resources	SS, block 2	7.5	Rasche
2	3101-570	Field Course Soils and Vegetation	SS, block 3	7.5	Herrmann
2	4302-470	Landscape Change, Resilience, and Ecosystem Services	SS, block 3	7,5	Bieling
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.

Recommended Elective Modules (one to choose)					
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, eg					
2	2202-400	Pathogens, Parasites and their Hosts, Ecology, Molecular Interactions and Evolution	SS, block 4	7.5	Mackenstedt

2	3101-420	International Field Course Site Evaluation (English + German)	September 2020, 2022, 2024, ...	7.5	Herrmann
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### **Hohenheim's ASP 2**

The modules offered for incoming students who choose Hohenheim as their 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 [www.uni-hohenheim.de/en/module-catalogue](http://www.uni-hohenheim.de/en/module-catalogue)). 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's 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	3202-420	Global Change Issues ( <i>not offered in WS 2019/20</i> )	1 semester	6	N.N.
3	4906-410	Ecology and Agroecosystems*	1 semester	6	N.N.
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 Modules (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, e.g.:					
3	3201-640	Applied Limnology*	1 Semester	6	Schmieder
3	4605-430	Microbiological Safety within the Feed and Food Production Chain	1 Semester	6	Hölzle
3	1301-470	Chemistry of the Earth System and Pollution ( <i>envisaged as a semi-elective in WS 2020/21</i> )	1 Semester	6	Strasdeit
3	1201-590	Agricultural and Forest Meteorology	1 Semester	6	Wulfmeyer

#### **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	4201-440	Economics and Environmental Policy	1 semester	6	Wieck

Sem	Code	Semi-elective Modules (four to choose)	Duration	Credits	Professor
3	4406-410	Waste Management and Waste Techniques	1 semester	6	Kranert
3	4302-420	Ethical Reflection on Food and Agriculture	1 semester	6	Bieling

\* *It is recommended to combine these two modules.*

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

Recommended Elective Modules (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, e.g.:					
3	3202-420	Global Change Issues ( <i>not offered in WS 2019/20</i> )	1 Semester	6	N.N.
3	3201-630	GIS and Remote Sensing in Landscape Ecology	1 Semester	6	Schmieder

### ***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	7.5	Müller, T.
3	3103-510	Environmental Modeling	1 semester	6	Streck
3	3103-410	Plant and Crop Modeling	in March	6	Priesack
3	3102-410	Environmental 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	Bieling

Recommended 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, e.g.:					
3	4302-420	Ethical Reflection on Food and Agriculture	1 semester	6	Bieling

### ***Specialization: Climate Change***

Sem	Code	Compulsory Module	Duration	Credits	Professor
3	3005-420	Climate Change Impacts, Adaptation and Mitigation	1 semester e-learning	15	Bieling
Sem	Code	Semi-elective Modules (two to choose)	Duration	Credits	Professor
3	1201-630	Weather and Climate Physics	1 semester	6	Wulfmeyer
3	3202-420	Global Change Issues ( <i>not offered in WS 2019/20</i> )	1 semester	6	N.N.
3	3103-510	Environmental Modeling	1 semester	6	Streck

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

<b>Recommended 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, e.g.:					
3	4302-420	Ethical Reflection on Food and Agriculture	1 semester	6	Bieling

***Specialization: Ecosystems and Biodiversity (Alternative 1)***

Sem	Code	Semi-elective Modules (four to choose)	Duration	Credits	Professor
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	4906-410	Ecology and Agroecosystems*	1 semester	6	N.N.
3	3103-510	Environmental Modeling	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.

<b>Recommended Elective Modules (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, e.g.:					
3	3603-480	Entomology	1 semester	6	N.N.
3	3201-420	Methods in Landscape and Plant Ecology*	4 weeks in March	7.5	Schurr

***Specialization: Ecosystems and Biodiversity (Alternative 2)***

Sem	Code	Semi-elective Modules (four to choose)	Duration	Credits	Professor
3	3201-560	Landscape Ecology**	Block 1, WS	7.5	Schurr
3	3201-570	Community and Evolutionary Ecology*	Block 2, WS	7.5	Schurr
3	3201-580	Conservation Biology*	Block 3, WS	7.5	Dieterich
3	3202-440	Plant Ecology*	Block 4, WS	7.5	N.N.
3	3201-420	Methods in Landscape and Plant Ecology*	4 weeks in March	7.5	Schurr

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

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

***Module Descriptions***

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

***Mentoring***

The director and the coordinator of the EnvEuro program act as mentors and are both available to advise on appropriate profiles and to support smooth and goal-oriented study progress. Elective modules that are suitable for the individual profile can be discussed with either of them. If a student wants to select modules offered by a different faculty than the Faculty of Agricultural Sciences, they have to be approved by the mentor beforehand.

***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. Please note: especially non-blocked modules often consist of more than one course.

**Semester Duration and Lecture Times**

One semester lasts 14 weeks (winter as well as summer semester). The lectures usually begin 15 minutes after the defined start time indicated in the course catalogue (c.t. = lat.: cum tempore = “with time”). Therefore, a lecture with a defined start time at 9 c.t. starts at 9:15. If a lecture starts on time at 9:00, there will be an indication 9 s.t. (lat.: sine tempore = „without time“).

**Modules with Limited Number of Participants**

Some modules can accept only a limited number of participants due to space constraints or supervision regulations. In this case, it is necessary to register for the module in advance. If there is a limited number of participants, this will be stated under the “comments” (“Anmerkungen”) section of the module description. Please check before lectures start whether the modules you have chosen have a limited number of participants or not ([uni-hohenheim.de/en/module-catalogue](https://uni-hohenheim.de/en/module-catalogue)). Each module with a limited number of participants is set up as a course on the e-learning platform ILIAS (<https://ilias.uni-hohenheim.de/>). You have to register there and see how the spots are allocated on ILIAS. In general, the following applies: Students for whom the respective module is compulsory or the last module that needs to be completed to finish a degree program, must always be admitted. If you have not yet enrolled by the end of the registration period and do not yet have access to ILIAS, please contact the degree program coordinator. She will register you for the module.

For blocked modules with a limited number of participants in block period 1, the registration starts at least two weeks before the start of the lecture period and ends eight days before the lecture period. For all other modules with a limited number of participants, the registration period starts at least one week before the start of the lecture period and ends at the end of the first week after the start of the lecture period. See also: <https://www.uni-hohenheim.de/en/registration-for-modules>

Please note: the ILIAS registration is only for participation and NOT a registration for the examination!

**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.

	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

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

***Registering for Examinations***  
***Examinations***

All examinations have to be registered by the students. After the registration, a module cannot be dropped any more.

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 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 modules an exam was failed 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 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/en/examination>) are distributed by the examination office.

Please note 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 5.0). A declaration (<https://agrar.uni-hohenheim.de/en/plagiats>) 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 determined 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, lab work, or literature research, a period of writing-up and, finally, a presentation.

***Evaluation of Modules***

The quality of courses and modules is evaluated each year 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 networks with academic partners worldwide.

***Modules at the Partner Universities***

Students usually 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, transfers will not work due to overlap between the semesters of the partner universities.

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

<https://enveuro.eu/master-programme-structure-and-courses/>

***Double Degree***

Upon 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.

***Responsible Scientist  
and Mentor***

Prof. Dr. Claudia Bieling  
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## Sequences of the blocked modules in Hohenheim's ASP1

	<b>Block 1</b> 01.04. - 26.04.2019	<b>Block 2</b> 29.04. - 24.05.2019	<b>Block 3</b> 27.05. - 07.06.2019 / 17.06. - 28.06.2019	<b>Block 4</b> 01.07. - 26.07.2019	<b>by arrangement</b>
<b>Specialization "Environmental Management" - Agricultural Landscapes</b>					
<b>Compulsory Module</b>	3103-450 Spatial Data Analysis with GIS				
<b>Semi-elective Modules</b> (two to choose)		4905-430 Integrated Agricultural Production Systems	4403-470 Renewable Energy for Rural Areas	4403-410 Irrigation and Drainage Technology	3301-480 Fertilisation and Soil Fertility Management in the Tropics and Subtropics
		4906-420 Biodiversity, Plant and Animal Genetic Resources	4302-470 Landscape Change, Resilience and Ecosystem Services		
<b>Suggestions for elective modules</b> (one to choose)		3201-620 Vegetation and Soils of Central Europe	4907-430 Crop Production Affecting the Hydrological Cycle	3201-600 Intensive Course Landscape Ecology	3000-420 Portfolio Module
			3101-570 Field Course Soils and Vegetation		
<b>Specialization "Soil Resources and Land Use" - European and Worldwide Views</b>					
<b>Compulsory Module</b>	3103-450 Spatial Data Analysis with GIS				
<b>Semi-elective Modules</b> (two to choose)		3201-620 Vegetation and Soils of Central Europe	3101-570 Field Course Soils and Vegetation	4403-410 Irrigation and Drainage Technology	3301-480 Fertilization and Soil Fertility Management in the Tropics and Subtropics
		3102-440 Environmental Pollution and Soil Organisms			3102-420 Project in Soil Sciences *
<b>Suggestions for elective modules</b> (one to choose)		4906-420 Biodiversity, Plant and Animal Genetic Resources	4907-430 Crop Production Affecting the Hydrological Cycle		3101-420 International Field Course Site Evaluation ( <i>in September!</i> )
<b>Specialization "Ecosystems and Biodiversity" - From Genes to Landscapes</b>					
<b>Compulsory Module</b>	3201-590 Combining Ecological Models and Data				
<b>Semi-elective Modules</b> (two to choose)		3201-620 Vegetation and Soils of Central Europe	3101-570 Field Course Soils and Vegetation	3201-600 Intensive Course Landscape Ecology	
		4906-420 Biodiversity, Plant and Animal Genetic Resources	4302-470 Landscape Change, Resilience and Ecosystem Services		
<b>Suggestions for elective modules</b> (one to choose)				2202-400 Pathogens, Parasites and their Hosts, Ecology, Molecular Interactions and Evolution *	3101-420 International Field Course Site Evaluation ( <i>in September!</i> )

# Geblockte Module der Fakultät Agrarwissenschaften für das Wintersemester 2019/20

## Blocked Modules in Winter Semester 2019/20

23.05.2019

● = 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
Studiengang / Study Course	14.10. - 08.11.2019	11.11. - 06.12.2019	09.12.19 – 20.12.19/ 07.01. – 17.01.2020	20.01. - 14.02.2020	i.d.R 24.02.- 18.03.2020
<b>B.Sc. Agrarwissenschaften</b>					○ 4606-220 (Weiler) Nutztier- systemmanagement – Schwein (6 credits)
<b>M.Sc. Agrarwissenschaften</b> Pflanzen- und Tierwissensch.					○ 4611-420 (Kube) Das bakt. Genom, exemplarisch von der Kultur zur funktion. Analyse
<b>M.Sc. Agrarwissenschaften</b> Tierwissenschaften					◐ 4601-480 (Rodehutschord) Futtermitteltechnologie und - analytik
<b>M.Sc. Agrarwissenschaften</b> Bodenwissenschaften					◐ 3102-450 (Kandeler) Molecular Soil Ecology (6 credits)
<b>M.Sc. EnviroFood</b>					◐ 3003-410 (Schöne) Food Safety and Quality Chains 25.2. – 8.3.19 (6 credits)
<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 (N.N.) Plant Ecology	○ 3201-420 (Schurr) Methods in Landscape and Plant Ecology (7.5 credits!)
<b>M.Sc. EnvEuro Ecosystems</b> and Biodiversity (package 2)	● 3201-560 (Schurr) Landscape Ecology	● 3201-570 (Schurr) Community and Evolutionary Ecology	● 3201-580 (Schurr) Conservation Biology	● 3202-440 (N.N.) Plant Ecology	◐ 3201-420 (Schurr) Methods in Landscape and Plant Ecology (7.5 credits!)
<b>M.Sc. Crop Sciences</b> (3.Sem., blocked semester package)	○ 3000-410 (Kruse, M.) Portfolio Module (Master)	○ 2601-410 (Schaller) Pflanze- Pathogen Interaktionen (5 Plätze für CS)	○ 2602-500 (Schulze) Regula- torische Prinzipien pflanzlicher Signaltransduktionswege (5 Plätze für CS)	○ 2203-410 (Steidle) <a href="#">Chemische Signale bei Tieren</a> (3 Plätze für CS)	○ 3103-410 (Priesack) Plant and Crop Modeling (6 credits)
<b>Sonstige M.Sc./Other M.Sc.</b>					◐ 2302-410 (Hanke) Spring School "Extreme Environments" (7.5 credits!)
					○ 4909-430 (Focken) Experi- mental Aquaculture (at Bremerhaven) (6 credits)
					○ 4907-490 (Asch) Excursion to the Tropics and Subtropics
					◐ 4303-470 (Lemke) Gender, Nutrition, and Right to Food (6 credits!) (next time in SS 2020)

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

# Geblockte Module der Fakultät Agrarwissenschaften für das Sommersemester 2019/20

## Blocked Modules in Summer Semester 2020

23.05.2019

● = 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	06.04. - 30.04.2020	04.05. - 29.05.2020	08.06. - 03.07.2020	06.07. - 31.07.2020	
<b>M.Sc. Agrarwissenschaften</b> Bodenwissenschaften	◐ 3103-450 (Streck) Spatial Data Analysis with GIS	◐ 3102-440 (Kandeler) Environmental Pollution and Soil Organisms	◐ 3101-570 (Herrmann) Boden- und veg.kundl. Geländeübung / Field Course Soils + Vegetation	● 3101-430 (Herrmann) Integriertes bodenwissenschaftliches. Projekt für Fortgeschrittene	◐ 3102-420 (Kandeler) Bodenwissenschaftliches Experiment/Project in Soil Sciences (Engl.+ Ger.)
	2019, 2021: ◐ 3101-460 Herrmann) Soils of the World - Formation, Classification, and ...	2020, 2022: ◐ 3101-580 (Rennert) Bodenschutz, Bodenbewertung, -sanierung	◐ 3201-620 (Schmieder) Vegetation and Soils of Centr. Europe		○ 3101-420 (Herrmann) Internationale standortkundliche Geländeübung / International Field Course Site Evaluation (Engl.+Ger.) (September 2020, 2022, 2024, ..)
<b>M.Sc. Agrarwissenschaften</b>	○ 3602-410 (Gerhards) Integrierter Pflanzenschutz mit Übungen	○ 4605-500 (Beyer) Biologische Sicherheit und Gentechnikrecht	◐ 7301-410 (Rosenkranz) Bienen	○ 4604-420 (Steffl) Seminar zu klinischen Fallstudien der Spez. Anatomie und Phys. d. Nutztiere	
		○ 7301-400 (Rosenkranz) Soziale Insekten (10 Plätze f. Fak. A)			
Tierwissenschaften: Profil Ernährung und Futtermittel	◐ 4603-420 (Seifert) Futtermittelmikrobiologie	◐ 4601-470 (Rodehutschord) Tracerbasierte Methoden i.d. Tierernährung		◐ 4601-450 (Rodehutschord.) Spezielle Ernährung der Wiederkäuer	
Tierwissenschaften: Profil Genomik und Züchtung		◐ 4607-510 (Bennewitz) Zuchtplanung und Zuchtpraxis i. d. Nutztierwissenschaften	◐ 4608-420 (Hasselmann) Molekulare Evolution und Populationsgenetik		
Tierwissenschaften: Profil Gesundheit und Verhalten	◐ 4606-490 (Stefanski) Verhaltensbiologie	◐ 4606-420 (Stefanski) Immunologie und Infektionsbiologie	◐ 4604-410 (Huber) Leistungs- assoziierte Stoffwechselstörungen bei landw. Nutztieren	◐ 4605-490 (Hölzle) Spezielle Tierhygiene	
<b>M.Sc. AgriTropics</b>	● 4907-440 (Asch) Interdiscipl. Practical Science Training	○ 4906-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	○ 4909-420 (Dickhöfer) Quantitative Meth. in Animal Nutrition + Vegetation Sciences		
Livestock		○ 4908-430 (Chagunda) Livestock Breeding Programs		○ 4908-420 (Chagunda) Promotion of Livestock in Trop. Environments	
Crops		○ 4905-430 (Cadisch) Integrated Agricultural Production Systems	○ 4907-430 (Asch) Crop Production Affecting the Hydrological Cycle		
		○ 4907-420 (Asch) Ecophysiology of Crops in the Tropics and Subtropics			
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	

Social Sciences				○ 4303-470 (Lemke) Gender, Nutrition, and Right to Food	
<b>M.Sc. Crop Sciences</b> (blocked semester packages)	○ 2601-430 (Schaller) Entwicklungsbiologie der Pflanzen (5 Plätze für CS)	○ 1101-410 (Kügler) Applied Mathematics for the Life Sciences II (5 Plätze für CS)	Sofern Zulassung möglich: ggf. Kombination der beiden Virologie-Module 2402-410 und 2402-420 in Block 3 und 4	○ 2202-400 (Mackenstedt) Pathogens, Parasites and their Hosts, Ecology, Molec. Interactions a. Evolution (8 Pl. UHOH)	
		○ 4605-500 (Beyer) Biologische Sicherheit und Gentechnikrecht			
		○ 4905-430 (Cadisch) Integr. Agricultural Production Systems	○ 4907-430 (Asch) Crop Prod. Affecting the Hydrological Cycle		
		○ 4907-420 (Asch) Ecophysiology of Crops in the T+S			
<b>M.Sc. EnviroFood</b>	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 3102-440 (Kandeler) Environmental Pollution and Soil Organisms		○ 4303-470 (Lemke) Gender, Nutrition, and Right to Food	
		● 4906-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources			
		● 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	
<b>M.Sc. EnvEuro</b> Environmental Management	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 4905-430 (Cadisch) Integrated Agricultural Production Systems	● 4403-470 (Müller, J.) Renewable Energy for Rural Areas	○ 3201-600 (Schurr) Intensive Course Landscape Ecology	● 3301-480 (Müller, T.) Fertilisation and Soil Fertility Management in the T. and S.
		● 4906-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	● 4302-470 (Bieling) Landscape Change, Resilience, and Ecosystem Services	● 4403-410 (Müller, J.) Irrigation and Drainage Technology	
Soil Resources and Land Use	● 3103-450 (Streck) Spatial Data Analysis with GIS	● 3201-620 (Schmieder) Vegetation and Soils of Centr. Europe	○ 4907-430 (Asch) Crop Production Affecting the Hydrological Cycle		● 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.)
Ecosystems and Biodiversity	● 3201-590 (Schurr) Combining Ecological Models and Data	● 3201-620 (Schmieder) Vegetation and Soils of Centr. Europe	● 3101-570 (Herrmann) Field Course Soils and Vegetation	○ 2202-400 (Mackenstedt) Pathogens, Parasites and their Hosts, Ecology, Molec. Interactions a. Evolution (8 Pl. UHOH)	○ 3101-420 (Herrmann) International Field Course Site Evaluation (Engl.+Ger.) (September 2020, 2022, 2024, ,, ...)
		● 4906-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	● 4302-470 (Bieling) Landscape Change, Resilience, and Ecosystem Services	● 3201-600 (Schurr) Intensive Course Landscape Ecology	
<b>M.Sc. Landscape Ecology</b>	● 3201-590 (Schurr) Combining Ecological Models and Data	● 3201-620 (Schmieder) Vegetation and Soils of Centr. Europe	● 3101-570 (Herrmann) Field Course Soils and Vegetation	● 3201-600 (Schurr) Intensive Course Landscape Ecology	○ 3101-420 (Herrmann) Internationale standortkundliche Geländeübung / International Field Course Site Evaluation (Engl.+Ger.) (September 2020, 2022, 2024, ....)
			● 4907-430 (Asch) Crop Production Affecting ...		
		● 3103-450 (Streck) Spatial Data Analysis with GIS		● 4403-470 (Müller, J.) Renewable Energy for Rural Areas	
	● 3101-460 (Herrmann) Soils of the World - Formation, Classification, and ... (2019, 2021)	● 4906-420 (Rasche) Biodiversity, Plant and Animal Gen. Resources	● 4302-470 (Bieling) Landscape Change, Resilience, and Ecosystem Services		

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

## Module code

Each module and each course is designated by a specific code. The first four digits represent the respective institute and the department or study field (i.e. of the responsible person / course instructor). The next three digits correlate to the type of module and the term, as well as the courses.

**11 00-00 0** = institute number (31 – 49 in the Faculty of Agriculture)

**00 01-00 0** = department within the institute (01 - 99 possible)

**00 00-01 0** = module designation:

-**01 0 - 20 0** basic modules for Bachelor's students

-**21 0 - 40 0** specialization study modules for Bachelor's students

-**41 0 - 80 0** modules for Master's students

-**81 0 - 90 0** modules for PhD students

**0000-01 1** = course 1 of a module (1 - 9 courses possible)

# Lecture Periods at UHOH

<b>WS 19/20</b>	<b>First day of <u>un</u>blocked modules:</b>	(42. KW) Monday, 14.10.2019
	<b>First day of blocked modules:</b>	(42. KW) Monday, 14.10.2019
	<b>Last day of <u>un</u>blocked modules:</b>	(5. KW) Saturday, 01.02.2020
	<b>Last day of blocked modules:</b>	(6. KW) Friday, 14.02.2020
<b>SS 20</b>	<b>First day of blocked modules:</b>	(15. KW) Monday, 06.04.2020
	<b>First day of <u>un</u>blocked modules:</b>	(15. KW) Monday, 06.04.2020
	<b>Last day of <u>un</u>blocked modules:</b>	(29. KW) Saturday, 18.07.2020
	<b>Last day of blocked modules:</b>	(31. KW) Friday, 31.07.2020

**Free of lectures:** All Saints' Day: Thurs, 01. Nov. 2019, Christmas holidays: Mo, 23. Dec. 2019 – Mo 06. Jan 2020, Easter: Fri, 10. Apr. – Mon, 13. Apr. 2020, International Labour Day: Fr, 01. May 2020, Ascension: Thurs, 21. May 2020, Pentecost: Tues., 02. June 2020 – Sat, 6 June 2020 (excursions might take place during that week!), Corpus Christi: Thurs, 11. June 2020.

## Examination periods in winter semester 2019/20

**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 2020

**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/en/examination>).