UNIVERSITY OF HOHENHEIM

Curriculum

October 2020

Environmental Science - Soil, Water and Biodiversity

Master of Science

Studying in the winter semester 2020/21 in times of Covid-19:
Presence on campus is not mandatory, but recommended! Teaching will be offered online to a large extend, but most modules also contain optional interactive components. Subscribe for the ILIAS courses for detailed information!

www.uni-hohenheim.de/enveuro

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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 on 28 August 2019).

The information presented reflects the current situation. Titles and contents of compulsory and optional modules are sometimes subject to change. For administrative reasons, such changes can only be included in printed materials with a delay. For this reason, we do not accept liability for the correctness of the information provided.

If in doubt, please contact the coordinator of the program (enveuro@uni-hohenheim.de) to obtain up-to-date information. For up-to-date module descriptions, please refer to the web pages at uni-hohenheim.de/en/module-catalogue. **Time schedules and lecture halls for all courses are displayed in the University of Hohenheim's Course Catalog**, available at the beginning of each semester on the university's homepage: www.uni-hohenheim.de.

Table of Contents

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 120 ECTS and is composed of 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 start 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 1st ASP) of the M.Sc. program is carried out at the home university. The second year (2nd 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

<table>
<tr><th colspan="3">University of Hohenheim
Home university</th><th colspan="2">Host university
(UCPH / SLU / BOKU)</th></tr>
<tr><th colspan="2">First Semester:
Basic Semester Package/BSP</th><th>Second Semester:
Advanced Semester Package 1/ASP 1
(choose one)</th><th>Third Semester:
Advanced Sem. Package 2/ASP 2
(choose one)</th><th>Fourth Semester
Master's thesis</th></tr>
<tr><td rowspan="6">Introduc-tion week and EME module (e-learning based),
15 ECTS</td><td rowspan="6">2 ½ modules each 6 ECTS
15 ECTS</td><td rowspan="6">Soil Resources and Land Use
30 ECTS

Ecosystems and Biodiversity
30 ECTS

Environmental Management
30 ECTS</td><td>Water Resources
SLU or BOKU,
30 ECTS</td><td rowspan="6">UCPH
or
SLU
or
BOKU
30 ECTS</td></tr>
<tr><td>Environmental Impacts
UCPH,
30 ECTS</td></tr>
<tr><td>Soil Resources and Land Use
UCPH or SLU or BOKU, 30 ECTS</td></tr>
<tr><td>Ecosystems and Biodiversity
UCPH or BOKU,
30 ECTS</td></tr>
<tr><td>Environmental Management
SLU,
30 ECTS</td></tr>
<tr><td>Climate Change
UCPH or BOKU,
30 ECTS</td></tr>
</table>

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

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

Program Objectives and Conditions

The EnvEuro program focuses on the relationships between natural resource uses in Europe and their effects on the environment and society. It provides insights into European ecosystems and principles used in current European environmental management. Students will learn analytical and management tools as well as innovative technologies for sustainable production systems and natural resource use, especially in areas with high anthropogenic pressures. 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's 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, opening doors to future opportunities.

Career Perspectives

The Master's program aims at providing graduates skills to work professionally as they identify, characterize, and solve problems related to the use of natural resources. This work is done based on insight into European ecosystems and principles used in current European environmental management.

Graduates will have excellent skills for jobs in all public and industrial sectors working on production optimization within the regulatory 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 180 hours for one module of 6 credits and 225 hours for one module of 7.5 credits. Each module may consist of different forms of teaching (e.g. seminar, lecture, practical course, excursions).

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

Sem	Code	Name of Module	Duration	Credits	Professor
1	3005-410	Environmental Manage-ment 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

* *Limited number of participants. Please register for participation on ILIAS* *(see page 12)*

One module (at least 6 credits) may be freely chosen from the module catalog of all Master's programs offered by the Faculty of Agricultural Sciences.

On request to the examination board and with the approval of an academic counsellor, modules can be chosen from other Master's programs of the University of Hohenheim (see: 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	4302-421	Ethical Reflection on Food and Agriculture *	1 Semester	6	Bieling
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 * *(Limited places: 15)*	1 Semester	6	Schweiger
1	3502-450	Population and Quantitative Genetics	1 Semester	6	Schmid
1	4906-410	Ecology and Agroecosystems *	1 Semester	6	Graß
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	Kruse, M.

* *Limited number of participants. Please register for participation on ILIAS* *(see page 12)*

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 catalog of the Master's programs of the Faculty of Agricultural Sciences (not listed here, available at uni-hohenheim.de/en/module-catalogue).

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** (choose two)	**Duration**	**Credits**	**Professor**
2	3409-480	Fertilization 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.

Recommended Elective Modules (choose one)					
One module with 7.5 ECTS may be freely chosen from the module catalog of all Master's courses of the Faculty of Agricultural Sciences, e.g.:					
2	3201-620	Vegetation and Soils of Central Europe *	SS, block 2	7.5	Schmieder
2	4906-430	Field Course Agroecology and Biodiversity *	SS, block 2	7.5	Graß
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	4906-440	Agroecology and Biotic Resource Conservation *	SS, block 3	7.5	Graß
2	3201-600	Intensive Course Landscape Ecology *	SS, block 4	7.5	Schurr
2	3000-420	Portfolio Module	Not defined	7.5	Kruse, M.

** Limited number of participants. Please register for participation on ILIAS (see page 12)*

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** (choose two)	**Duration**	**Credits**	**Professor**
2	3409-480	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
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.
Recommended Elective Modules (choose one)					
One module with 7.5 ECTS may be freely chosen from the module catalog of all Master's courses of the Faculty of Agric. Sciences, e.g.:					
2	4905-470	Biodiversity and Genetic Resources	SS, block 2	7.5	Rasche
2	4906-430	Field Course Agroecology and Biodiversity *	SS, block 2	7.5	Graß
2	4906-440	Agroecology and Biotic Resource Conservation *	SS, block 3	7.5	Graß
2	4907-430	Crop Production Affecting the Hydrological Cycle	SS, block 3	7.5	Asch
2	3101-420	Int. Field Course Site Evaluation (Eng. + Ger.) *	Sept. 2021, 2023, …	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** (choose two)	**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

Recommended Elective Modules (one to choose)					
One module with 7.5 ECTS may be freely chosen from the module catalog of all Master's courses of the Faculty of Agricultural Sciences, e.g.:					
2	4906-430	Field Course Agroecology and Biodiversity	SS, block 2	7.5	Graß
2	4906-440	Agroecology and Biotic Resource Conservation	SS, block 3	7.5	Graß
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

Hohenheim's ASP 2

The modules offered for incoming students who chose 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 catalog of the Faculty of Agricultural Sciences (not listed here, available at www.uni-hohenheim.de/en/module-catalogue). The semi-elective modules of ASP2 at Hohenheim are listed below.

Specialization: Environmental Impacts

Sem	**Code**	**Semi-elective Modules** (choose four)	**Duration**	**Credits**	**Professor**
3	3202-420	Global Change Issues * *(Limited number of participants: 15)*	1 semester	6	Schweiger
3	4906-410	Ecology and Agroecosystems *	1 semester	6	Graß
3	4402-440	Agricultural Production and Residues	1 semester	6	Gallmann
3	1301-470	Chemistry of the Earth System and Pollution	1 semester	6	Strasdeit
3	4406-410	Waste Management and Waste Techniques	1 semester	6	Kranert

Recommended Elective Modules (one to choose)					
One module with 6 ECTS may be freely chosen from the module catalog of all Master's courses of the Faculty of Agric. Sciences, e.g.:					
3	4605-430	Microbiological Safety within the Feed and Food Production Chain	1 Semester	6	Hölzle
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
3	4406-410	Waste Management and Waste Techniques *(not offered in 2020/21)*	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.*

Recommended Elective Modules (choose one)					
One module with 6 ECTS may be freely chosen from the module catalog of all Master's courses of the Faculty of Agricultural Sciences, e.g.:					
3	3202-420	Global Change Issues * *(Limited places: 15)*	1 Semester	6	Schweiger
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 (choose at least 24 credits)	Duration	Credits	Professor
3	3409-480	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	3409-440	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 (choose one)					
One module with 6 ECTS may be freely chosen from the module catalog of all Master's courses of the Faculty of Agricultural Sciences, e.g.:					
3	4302-420	Ethical Reflection on Food and Agriculture *	1 semester	6	Bieling

* *Limited number of participants. Please register for participation on ILIAS* *(see page 12)*

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** (choose two)	**Duration**	**Credits**	**Professor**
3	1201-630	Weather and Climate Physics	1 semester	6	Wulfmeyer
3	3202-420	Global Change Issues * *(Limited places: 15)*	1 semester	6	Schweiger
3	3103-510	Environmental Modeling	1 semester	6	Streck

Recommended Elective Module (choose one)					
One module with 6 ECTS may be freely chosen from the module catalog of all Master's courses of the Faculty of Agric. Sciences, e.g.:					
3	4302-420	Ethical Reflection on Food and Agriculture *	1 semester	6	Bieling

Specialization: Ecosystems and Biodiversity (<u>Alternative 1</u>)

Sem	Code	Semi-elective Modules (choose four)	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	Graß
3	4302-420	Ethical Reflection on Food and Agriculture *	1 semester	6	Bieling
3	3103-510	Environmental Modeling *	1 semester	6	Streck
3	3502-450	Population and Quantitative Genetics	1 semester	6	Schmid

Recommended Elective Modules (choose one)					
One module with 6 ECTS may be freely chosen from the module catalog of all Master's courses of the Faculty of Agric. Sciences, e.g.:					
3	3603-480	Entomology	1 semester	6	Petschenka
3	3201-420	Methods in Landscape and Plant Ecology *	4 weeks in March	7.5	Schurr

Specialization: Ecosystems and Biodiversity (<u>Alternative 2</u>)

Sem	Code	Semi-elective Modules (choose four)	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	Schweiger
3	3201-420	Methods in Landscape and Plant Ecology *	4 weeks in March	7.5	Schurr

*** Please register for participation <u>two</u> weeks before the lecture period starts.*

Module Descriptions

For the contents of all modules see: uni-hohenheim.de/en/module-catalogue

Academic counselling

Academic counsellors are assigned to advise on appropriate profiles and to support smooth and focused study progress. Elective modules that are suitable for the individual profile can be discussed with them. If a student wants to select modules offered by a faculty other than the Faculty of Agricultural Sciences, they have to be approved by the academic counsellor or the course coordinator beforehand.

Academic counsellors for EnvEuro:

Prof. Dr. Claudia Bieling (specialization: Environmental Management)

Prof. Dr. Frank Schurr (specialization: Ecosystems and Biodiversity)

Prof. Dr. Thilo Streck (specializations: Soil Resources and Land Use, Climate Change, Environmental Impacts)

Individual Timetable

The Course Catalog 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 on the University's homepage: www.uni-hohenheim.de. It is linked to the modules listed in the HohCampus Study Planner. A tool to compose an individual timetable is available, too. 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 catalog (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 punctually 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 of participants due to space constraints or supervision regulations. Those modules are marked with an asterisk (*) in this document and it is stated under the "comments" ("Anmerkungen") section of the module description in the module catalog. In this case, it is necessary to register for the module in advance. 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). 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. 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 responsible lecturer by e-mail and ask for registration. For blocked modules with a limited number of participants in block period 1, 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 access to teaching materials, 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*
excellent performance	*very good*	A	1.0
		A-	1.3
performance considerably exceeding the average standard	*good*	B+	1.7
		B	2.0
		B-	2.3
performance meeting the average standard	*medium*	C+	2.7
		C	3.0
		C-	3.3
performance meeting minimum criteria	*pass*	D+	3.7
		D	4.0
performance not meeting minimum criteria	*fail*	F	5.0

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

Registering for Examinations

Students must register for all examinations in the HohCampus portal. The registration deadlines are published on the website of the Examinations Office: https://www.uni-hohenheim.de/en/examination

Examinations

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 a registered module examination is possible until 7 days before the examination date.

The right of admission to examinations expires if:

- an examination for one of the modules has not been passed by the end of the seventh semester at the latest (only applies to "host students" in their second year of studies)
- in one of the modules an exam was failed more than two times.

The right of admission to 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 are distributed by the Examinations Office (https://www.uni-hohenheim.de/en/examination).

Please note that plagiarism, that means taking over text or phrases in a written examination (even within a partial examination) without quoting them accordingly, will be marked as a cheating attempt and the respective examination component 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.

Exam Repetition

If an examination is failed, the Examinations Office will inform the student via mail. Students are responsible for checking with the responsible professor or the Examinations Office about dates for repeat exams and register themselves. They will not be registered for re-examinations automatically! Usually repeat exams for blocked modules will be scheduled by the responsible professor within the same semester, repeat exams in un-blocked modules will be scheduled for the next possible examination period. Students are not obliged to take a re-exam in the next possible examination period, but can choose to take it in one of the later examination periods, if they wish.

Master's Thesis

The Master's thesis shows 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 (defense) part. The written part of the Master's 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. The candidate has to defend the essential arguments, results, and methods of the thesis in a colloquium of 30-45 minutes.

Evaluation of Modules

The quality of courses and modules is evaluated each year by the students of all degree 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 1st ASP at one university and the 2nd year at another university where the 2nd 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 1st 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 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

Prof. Dr. Claudia Bieling
Department: Societal Transition and Agriculture

Contact

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http://www.uni-hohenheim.de/enveuro

Sequences of the blocked modules in Hohenheim's ASP1

	Block 1 12.04. - 07.05.2021	**Block 2** 10.05. - 21.05.2021 / 31.05. - 11.06.2021	**Block 3** 14.06. - 09.07.2021	**Block 4** 12.07. - 06.08.2021	**by arrangement**
Specialization "Environmental Management" - Agricultural Landscapes					
Compulsory Module	3103-450 Spatial Data Analysis with GIS				
Semi-elective Modules (choose two)		4905-430 Integrated Agricultural Production Systems	4403-470 Renewable Energy for Rural Areas	4403-410 Irrigation and Drainage Technology	3409-480 Fertilization and Soil Fertility Management in the Tropics and Subtropics
		4905-470 Biodiversity and Genetic Resources	4302-470 Landscape Change, Resilience and Ecosystem Services		
Suggestions for elective modules (choose one)		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 Agroecology and Biodiversity	3101-570 Field Course Soils and Vegetation		
			4906-440 Agroecology and Biotic Resource Conservation		
Specialization "Soil Resources and Land Use" - European and Worldwide Views					
Compulsory Module	3103-450 Spatial Data Analysis with GIS				
Semi-elective Modules (choose two)		3201-620 Vegetation and Soils of Central Europe	3101-570 Field Course Soils and Vegetation	4403-410 Irrigation and Drainage Technology	3409-480 Fertilization and Soil Fertility Management in the Tropics and Subtropics
		3102-440 Environmental Pollution and Soil Organisms			3102-420 Project in Soil Sciences
Suggestions for elective modules (choose one)		4906-420 Biodiversity, Plant and Animal Genetic Resources	4907-430 Crop Production Affecting the Hydrological Cycle		3101-420 International Field Course Site Evaluation *(in September 2021!)*
		3101-570 Field Course Agroecology and Biodiversity	4906-440 Agroecology and Biotic Resource Conservation		
Specialization "Ecosystems and Biodiversity" - From Genes to Landscapes					
Compulsory Module	3201-590 Combining Ecological Models and Data				
Semi-elective Modules (choose two)		3201-620 Vegetation and Soils of Central Europe	3101-570 Field Course Soils and Vegetation	3201-600 Intensive Course Landscape Ecology	
		4905-470 Biodiversity and Genetic Resources	4302-470 Landscape Change, Resilience and Ecosystem Services		
Suggestions for elective modules (choose one)		3101-570 Field Course Agroecology and Biodiversity	4906-440 Agroecology and Biotic Resource Conservation	2202-400 Pathogens, Parasites and their Hosts, Ecology, Molecular Interactions and Evolution	3101-420 International Field Course Site Evaluation *(in September 2021!)*

Lecture Periods at UHOH

WS 20/21	**First day of unblocked modules:**	(45. KW) Monday, 2 Nov 2020
	First day of blocked modules:	(45. KW) Monday, 2 Nov 2020
	Last day of unblocked modules:	(6. KW) Saturday, 13 Feb 2021
	Last day of blocked modules:	(9. KW) Friday, 5 March 2021
SS 21	**First day of blocked modules:**	(15. KW) Monday, 12 Apr 2021
	First day of unblocked modules:	(15. KW) Monday, 12 Apr 2021
	Last day of unblocked modules:	(29. KW) Saturday, 24 Jul 2021
	Last day of blocked modules:	(31. KW) Friday, 6 Aug 2021

No lectures: All Saints' Day: Thurs, 01 Nov 2020, Christmas holidays: Mo, 23 Dec 2020 – Mo 06 Jan 2021, Easter: Fri, 2 Apr – Mon, 5 Apr 2021, International Labor Day: Fr, 01 May 2021, Ascension: Thurs, 13 May 2021, Pentecost: Mon, 24 May 2021 – Sat, 29 May 2021 (excursions might take place during that week!), Corpus Christi: Thurs, 3 June 2021.

See also: https://www.uni-hohenheim.de/en/semesterdates

Examination periods for the winter semester 2020/21 and the summer semester 2021 were not known at the time of publishing this curriculum.

Check the website of the Examinations Office for up-to-date information: https://www.uni-hohenheim.de/en/examination

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Explanation of the Module Codes

For example: 3103-450 Spatial Data Analysis with GIS

310: Indicates the number of the institute (310: Institute of Soil Sciences)

450: The 4 indicates that it is a module on Master's level (lower numbers indicate Bachelor's level. Bachelor's modules cannot be chosen as elective modules!)

The 0 indicates that it is the module name. 1, 2 or 3 as last digit indicate that it is a teaching sub-unit within a module (tutorial, exercises, lectures, etc.)