

UNIVERSITÄT HOHENHEIM  
FAKULTÄT AGRARWISSENSCHAFTEN



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. programme „Environmental Science – Soil, Water and Biodiversity“ (EnvEuro – a European Master in Environmental Science). It contains information on the programme structure, summarises the most important exam regulations and admission requirements.

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

If in doubt, please refer to the co-ordinator of the programme ([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 Programme „Environmental Science – Soil, Water and Biodiversity“

### Programme Design

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

The full programme has an extent of 120 ECTS and is constructed by 4 Semester packages, each with a value of 30 ECTS (one basic Semester package/BSP, two advanced Semester packages/ASPs, and a thesis). All students will start up with a common introduction week in August, held at the 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. programme is carried out at the home university. The second year (2<sup>nd</sup> ASP and thesis) is carried out at one of the partner universities.

### Programme 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)	Fourth 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

### ***Programme Objectives and Conditions***

The programme 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 programme as water quantities and quality is a powerful measure of mass and energy balances in agriculture, industries and households including pollution loads. Six different specialisations allow for an individually tailored M.Sc. programme.

The University of Hohenheim provides an excellent platform for development of a M.Sc. programme based on European knowledge and experience. The Master degrees of the University of Hohenheim are highly regarded academically, as well as being well received by employers internationally.

The University of Hohenheim fosters contacts and partnerships with more than 50 universities worldwide as well as many renowned national and international institutions and companies. Students enrolled at Hohenheim are encouraged to take full advantage of this existing network in respect of their studies that opens doors to future opportunities.

### ***Career Perspectives***

The M.Sc. programme aims at providing candidates who can work professionally with soil, water, climate change and biodiversity in an 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):

Sem	Code	Name of Module	Duration	Credits	Professor
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 programmes 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	3202-430	Air Pollution and Air Pollution Control	1 Semester	6	Fangmeier
1	3502-450	Population and Quantitative Genetics	1 Semester	6	Schmid
1	3802-410	Ecology and Agroecosystems*	1 Semester	6	Sauerborn
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 as described in the module descriptions.

In the second semester students have to choose one of the following specialisations of **advanced semester package 1 (ASP1)**. These semester packages consist of three types of modules: compulsory, semi-elective, and elective. Students have to combine the modules so that 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:**

*Specialisation Environmental Impacts (in summer term 2015)*

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	Sauerborn
2	4403-580	Water and Soil Management in Agricultural Production	SS, block 2	7.5	Müller, J.
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

Sem	Code	Compulsory Module	Duration	Credits	Professor
2	3103-460	Environmental Science Project	SS, block 4	7.5	Streck
<b>Elective module</b> (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					

***Specialisation Environmental Management (in summer term 2015)***

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	Sauerborn
2	4403-580	Water and Soil Management in Agricultural Production	SS, block 2	7,5	Müller, J.
2	4403-470	Renewable Energy for Rural Areas	SS, block 3	7,5	Müller, J.
2	3103-460	Environmental Science Project	SS, block 4	7,5	Streck
<b>Elective module</b> (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					

***Specialisation Soil Resources and Land Use (in summer term 2015)***

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	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	4403-580	Water and Soil Management in Agricultural Production	SS, block 2	7.5	Müller, J.
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	3103-460	Environmental Science Project	SS, block 4	7.5	Streck

\* Please register for participation as described in the module descriptions.

<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					

**Specialisation Climate Change (in summer term 2015)**

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	Sauerborn
2	4403-580	Water and Soil Management in Agricultural Production	SS, block 2	7.5	Müller, J.
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	3803-430	Ecophysiology of Crops in the Tropics and Subtropics	SS, block 4	7.5	Asch
2	3103-460	Environmental Science Project	SS, block 4	7.5	Streck

<b>Elective module (one to choose)</b>					
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					

**Specialisation Ecosystems and Biodiversity (in summer term 2015)**

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	Sauerborn
2	3101-570	Field Course Soils and Vegetation	SS, block 3	7.5	Herrmann
2	3103-460	Environmental Science Project	SS, block 4	7.5	Streck
2	3201-600	Intensive Course Landscape Ecology	SS, block 4	7.5	Schurr

<b>Elective module (one to choose)</b>					
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. programme has a total requirement of 120 ECTS credits. The credit point system used in the M.Sc. programme 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

**Study and Examination Plan**

Students have to seek advice of the mentor of the programme on which elective modules are suitable for their individual profile. During the first three months of study a counseling confirmation has to be signed by a co-ordinator 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 on the first trial of each module examination is possible up to 7 days before the examination date. The examination will be postponed to the next possible examination period.

The claim for examination expires if:

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

The claim for examinations does not expire if the candidate cannot be held responsible for the failure to comply with the deadlines. The students themselves are responsible for complying with these examination deadlines as well as all other regulations given in the examination regulations. The

examination regulations (<https://www.uni-hohenheim.de/pruefung.html>) are distributed by the examination office.

Please mind that plagiarism, that means the take-over of text or phrases in a written examination (even within a partial performance) without quoting them accordingly, will be marked as attempt of deception and the respective examination performance is to be graded "fail" (F; 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 field work, a period of writing-up and, finally, a presentation.

### ***Quality Assurance***

The quality of courses and modules is evaluated in a two year rotation by the students of all study programmes. The evaluation sheets are distributed and evaluated by the Faculty of Agricultural Sciences and the results are sent back to the lecturers in an **anonymous** format. The lecturers are asked to discuss the results with the students at the end of their courses.

### ***Teaching Staff at Hohenheim***

Most modules are organised 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 study and examination plan has to be signed by the mentor before it is handed in to the examination office. Elective modules that are suitable for the individual profile, can be discussed first with the department advisor for the programme.

### ***Modules at the Partner Universities***

The typical student is expected to spend one year at Hohenheim and one year at one of the partner universities; the first year comprising the BSP plus 1<sup>st</sup> ASP at one university and the 2<sup>nd</sup> year at another university where the 2<sup>nd</sup> ASP plus the thesis work is performed. This set up is recommended because of the different Semester structures at the partner universities. Between the BSP and the 1<sup>st</sup> ASP moving will not work due to overlap between Semesters (see scheme on page 19).

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

<http://www.enveuro.eu/Master-programme/Specialisations-and-courses.aspx>

## Hohenheim's ASP 2

The modules offered for incoming students for which 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 specialisation 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 specialisations by modules from other master programmes of the University of Hohenheim. This substitution needs the approval of the mentor.

### ***Specialisation: Environmental Impacts (winter term 2014/2015)***

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
3	3202-430	Air Pollution and Air Pollution Control	1 semester	6	Fangmeier
3	3004-410	Inland Water Ecosystems*	1 semester	6	Tremp
3	3802-410	Ecology and Agroecosystems*	1 semester	6	Sauerborn
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 as described in the module descriptions.

#### **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

### ***Specialisation: Environmental Management (winter term 2014/2015)***

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 as described in the module descriptions.

#### **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

**Specialisation Soil Resources and Land Use (winter term 2014/2015)**

Sem	Code	Semi-elective Modules (at least 24 credits to choose)	Duration	Credits	Professor
3	3301-480	Fertilisation 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	Applied Microbiology (=Environmental Microbiology)	1 semester	6	Kandeler
3	3102-420	Project in Soil Sciences	n.V.	7.5	Kandeler
3	3301-440	Soil Fertility and Fertilisation 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					

**Specialisation: Climate Change (winter term 2014/2015)**

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 Modelling	1 semester	6	Streck
3	3004-410	Inland Water Ecosystems*	1 semester	6	Tremp

\* Please register for participation as described in the module descriptions.

<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					

**Specialisation: Ecosystems and Biodiversity (winter term 2014/2015)**

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	Sauerborn
3	3103-510	Environmental Modelling	1 semester	6	Streck

Sem	Code	Semi-elective Modules (four to choose)	Duration	Credits	Professor
3	3502-450	Population and Quantitative Genetics	1 semester	6	Schmid

\* *Please register for participation as described in the module descriptions.*

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

### ***Admission Requirements***

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

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

### ***Application Deadline***

The application deadline for Non-EU-citizens is 1<sup>st</sup> January each year and for EU-citizens it is 1<sup>st</sup> of June each year. Please note that EnvEuro starts each year in the end of August with a compulsory one-week intensive introduction course in Copenhagen. All students from the four partner universities are introduced to each other to ensure that all students across home universities and host universities will get to know each other.

### ***Fees and Expenses***

A registration fee (at present 115,05 € per semester) has to be paid by every student. Students are expected to cover their own living expenses, including housing, food, health insurance, study materials etc. (approx. 700 €/month).

### ***Scholarships***

Unfortunately, the University of Hohenheim is neither in a position to provide scholarships nor to assist with the application procedure. Applications for grants should therefore be directed to the relevant organisations.

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

### ***Cost of Living***

Students have to come up for their own living expenses. The standard of living is comparatively high and so is the cost of living. On estimate, a single student needs approximately Euro 700 per month. Apart from accommodation fees and food expenses, additional costs have to be taken into account, i.e. excursion fees, registration fees (see above), health insurance (which is a pre-requisite for registering with a German university), personal liability insurance, study material, etc.

### ***Housing***

Each student is responsible for finding accommodation for him-/herself. The University of Hohenheim cannot guarantee accommodation in dormitories due to lack of capacity. However, the University of Hohenheim offers assistance

with looking for accommodation. This may help international students to fulfil visa requirements. Rent for a single-room apartment amounts to about Euro 250 to 400 per month, depending on the size of the flat and distance from the University or the city of Stuttgart.

***Dormitories***

Dormitories are located on the campus or walking distance to the campus. All rooms are furnished and equipped with internet access. Kitchen and Bath facilities have to be shared with other students. The rent varies in between 210 and 270,- € 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 letter of admittance has been received. The letter of admittance will certify that knowledge of the German language is not required for participating in the Hohenheim Master programme.

The basic requirements for a student visa are the following: valid passport, photographs, proof of high school diploma / previous university study, letter of admittance from the University of Hohenheim and proof of a financing source for the duration of the study (or at least for the first year). As a prerequisite for obtaining a visa at least EUR 650 per month are required. Therefore, for the first year, applicants will have to prove a minimum availability of EUR 7,800 of own resources, unless some other financing source is at their disposal. In the latter case, one (or more) person(s) or sponsor(s) have to take official responsibility for all costs pertaining to the entire period of study.

***Responsible Scientist  
and Mentor at UHOH***

Prof. Dr. Andreas Fangmeier  
Department: Plant Ecology and Ecotoxicology

***Contact***

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

# Geblockte Module der Fakultät Agrarwissenschaften für das Wintersemester 2014/15

## Blocked Modules Winter Semester 2014/15

Stand: 19.09.2014

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

Blockperiode / Period	Block 1	Block 2	Block 3	Block 4	Holiday Block (March)
Studiengang / Study Course	13.10. - 07.11.2014	10.11. - 05.12.2014	08.12.14 – 19.12.14/ 07.01. – 16.01.2015	19.01. - 13.02.2015	
<b>B.Sc. Agrarwissenschaften</b>					◐ 4402-210 (Jungbluth) Planung von Nutztierhaltungssystemen (6 credits!)
					○ 4701-220 (Weiler) Nutztiersystemmanagement – Schwein (6 credits!)
<b>M.Sc. Agrarwissenschaften Tierwissenschaften</b>					● 4502-410 (Mosenthin) Futterwertbeurteilung, FM-mikrobiologie und ..
<b>M.Sc. EnviroFood</b>					◐ 3003-410 (Schöne) Food Safety and Quality Chains (6 credits!) (17.3.-27.3.+ 10.4.)
<b>M.Sc. Landscape Ecology</b>	● 3201-560 (Schurr) Landscape Ecology (7.5 credits!)	● 3201-570 (Schurr) Community and Evolutionary Ecology (7.5 credits!)	● 3201-580 (Schurr) Conservation Biology (7.5 credits!)	● 3202-440 (Fangmeier) Plant Ecology (7.5 credits!)	
<b>Sonstige M.Sc./Other M.Sc.</b>					○ 4802-470 (Focken) Experimental Aquaculture (6 credits!) (2.-13.3. in Ahrensburg)

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 2015

## Blocked Modules Summer Semester 2015

Stand: 19.09.2014

● = 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	13.04. - 08.05.2015	11. - 22.05. / 01. - 12.06.2015	15.06. - 10.07.2015	13.07. - 07.08.2015	
<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.)
	◐ 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) Vegetation and Soils of Central Europe				
<b>M.Sc. Agrarwissenschaften Tierwissenschaften</b>	◐ 4502-430 (Mosenthin) Methoden zur Analytik u. Qualitätsbeurt. von Futtermitteln	◐ 4702-510 (Bennewitz) Zuchtplanung und Zuchtpraxis i. d. ...	◐ 4701-480 (Stefanski) Verhaltensphysiologie und Immunobiologie	◐ 4501-450 (Rodehutscond.) Spezielle Ernährung Wiederkäuer	
	◐ 4701-490 (Stefanski) Verhaltensbiologie	○ 4601-410 (N.N.) Angew. Anatomie und klinische U.-methoden	○ 4602-450 (Hölzle) Food Safety a. Drinking Water Quality related to Zoonoses in the T+S	◐ 4602-490 (Hölzle) Spezielle Tierhygiene	
		○ 4602-500 (Beyer) Biologische Sicherheit und Gentechnikrecht	○ 4802-450 (Dickhöfer) Quant. Meth. in Anim. Nutrition +Veget. Scienc.	○ 4801-420 (Valle Zárate) Promotion of Livestock in Trop. Environments	
		◐ 7301-410 (Rosenkranz) Bienen			
<b>M.Sc. AgriTropics</b>	● 3803-470 (Asch) Interdiscipl. Practical Science Training (AgriTropics only!)	○ 3802-420 (Sauerborn) Biodiversity, Plant and Animal Gen. Resources	○ 4802-450 (Dickhöfer) Quant. Meth. in Anim. Nutrition +Veget. Scienc.		
Animal		○ 4801-430 (Valle Zárate) Livestock Breeding Programmes	○ 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 T+S	
			○ 3501-480 (Melchinger) Breed. of Trop., Ornament., and Veget. Plants		
Engineering		○ 4403-580 (Müller, J.) Water and Soil Management in Agric. Production	○ 4403-470 (Müller, J.) Renewable Energy for Rural Areas	○ 4403-550 (Müller, J.) Postharvest Technology of Food and Bio-Based Products	
Economics		(evtl: Gender, Nutrition, and Right to Food?)	○ 4901-430 (Zeller) Rural Development Policy and Institutions	○ 4303-480 (Lemke) Global Nutrition	
<b>M.Sc. Crop Sciences (blocked) Plant Nutrition &amp; Protection (N)</b>	○ 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, Molecular Interactions and Evolution	

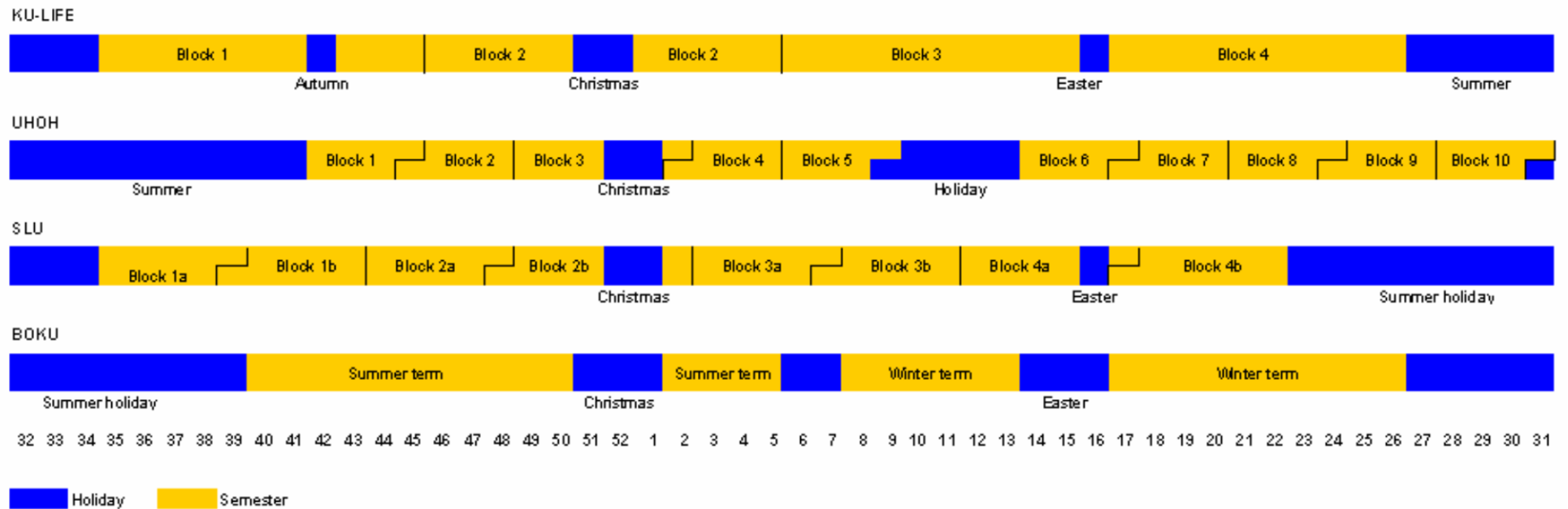


Plant Nutrition & Protection (A)		○ 3801-430 (Cadisch) Integr. Agricultural Production Systems	○ 3803-450 (Asch) Crop Prod. Affecting the Hydrological Cycle	○ 3803-430 (Asch) Ecophysiology of Crops in the T+S	○ 3603-500 (Zebitz) Exercises in Biological Pest Control
<b>M.Sc. EnviroFood</b>	● 3103-450 (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 (Sauerborn) Biodiversity, Plant and Animal Gen. Resources	○ 4602-450 (Hölzle) Food Safety a. Drinking Water Quality related to Zoonoses in the T+S	☛ 4303-480 (Lemke) Global Nutrition	
		☛ 4403-580 (Müller, J.) Water and Soil Management in Agric. Production	○ 1401-490 (Biesalski) Food Security	☛ 4403-550 (Müller, J.) Postharvest Technology of Food and Bio-Based Products	
<b>M.Sc. Landscape Ecology</b>	☛ 3201-620 (Schmieder) Vegetat. and Soils of Central 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 Prod. Affecting the Hydrological Cycle		
		☛ 3802-420 (Sauerborn) Biodiversity, Plant and Animal Gen. Resources			
<b>M.Sc. EnvEuro Environm. Impacts</b>	● 3103-450 (Streck) Spatial Data Analysis with GIS	☛ 3802-420 (Sauerborn) Biodiversity, Plant and Animal Gen. Resources	☛ 3803-450 (Asch) Crop Production Affecting the Hydrological Cycle	☛ 3103-460 (Streck) Environmental Science Project	
		☛ 4403-580 (Müller, J.) Water and Soil Management in Agric. Production	☛ 3101-570 (Herrmann) Field Course Soils and Vegetation		
<b>Environm. Management</b>	● 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 (Sauerborn) Biodiversity, Plant and Animal Gen. Resources			
		☛ 4403-580 (Müller, J.) Water and Soil Management in Agric. Production			
<b>Soil Resources and Land Use</b>	● 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		○ 3102-420 (Kandeler) Bodenwissenschaftl. Experiment/Project in Soil Sciences (Engl.+ Ger.)
		☛ 4403-580 (Müller, J.) Water and Soil Management in Agric. Production			
<b>Climate Change</b>	● 3103-450 (Streck) Spatial Data Analysis with GIS	☛ 3802-420 (Sauerborn) Biodiversity, Plant and Animal Gen. Resources	☛ 3803-450 (Asch) Crop Production Affecting the Hydrological Cycle	☛ 3103-460 (Streck) Environmental Science Project	
		☛ 4403-580 (Müller, J.) Water and Soil Management in Agric. Production	☛ 4403-470 (Müller, J.) Renewable Energy for Rural Areas	☛ 3803-430 (Asch) Ecophysiology of Crops in the T+S	
<b>Ecosystems and Biodiversity</b>	● 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 (Sauerborn) Biodiversity, Plant and Animal Gen. Resources		☛ 3201-600 (Schurr) Intensive Course Landscape Ecology	

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

<b>Master's Programme</b>		<b>Semester Structure from WS 14/15 on</b>				
<b>Programme</b>	<b>Specialisation</b>	<b>Language</b>	<b>Winter Semester 1 (Compulsory-/SE)</b>	<b>Summer Semester1 (Compulsory/SE/Elective)</b>	<b>Winter Semester 2 (Compulsory/SE/Elective)</b>	<b>Summer Semester 2</b>
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>Specialisation</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

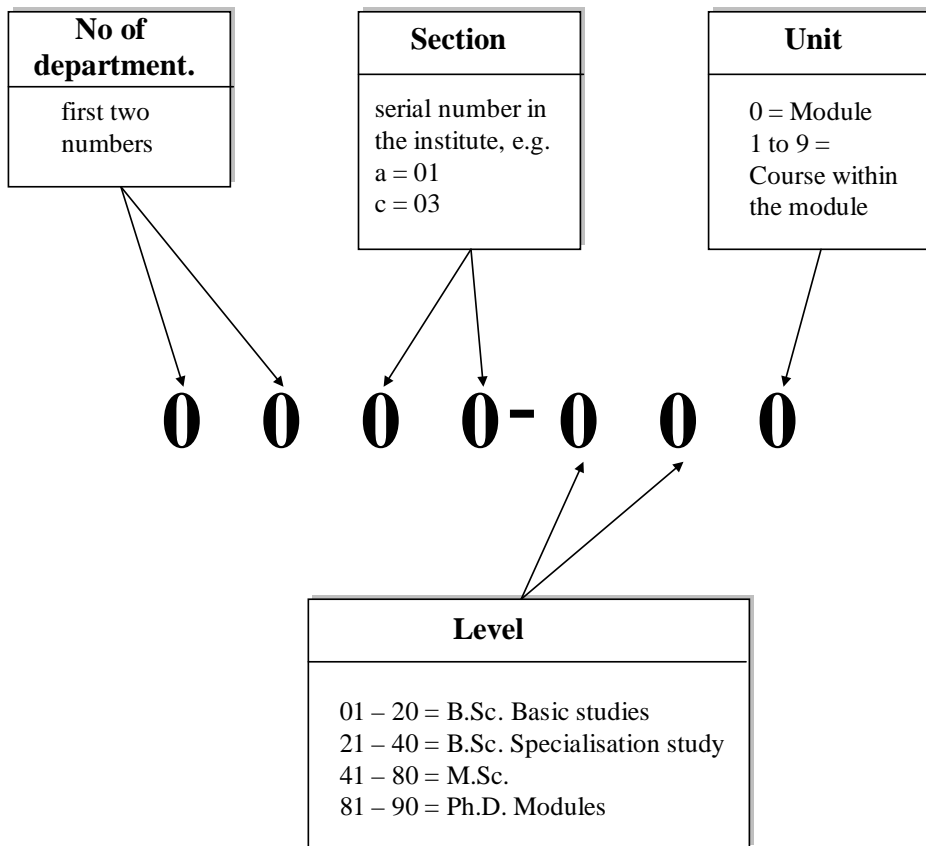
## Scheme showing the semester structures at the four partner universities during all calendar weeks



<b>day</b> <b>time</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
<b>8 - 9</b>					
<b>9 - 10</b>					
<b>10 - 11</b>					
<b>11 - 12</b>					
<b>12 - 13</b>					
<b>13 - 14</b>					
<b>14 - 15</b>					
<b>15 - 16</b>					
<b>16 - 17</b>					
<b>17 - 18</b>					



# Explanation of Module Code





# Lecture Periods at UHOH

<b>WS 14/15</b>	<b>First day of <u>un</u>blocked modules:</b>	(42. KW) Monday, 13.10.2014
	<b>First day of blocked modules:</b>	(42. KW) Monday, 13.10.2014
	<b>Last day of <u>un</u>blocked modules:</b>	(6. KW) Saturday, 07.02.2015
	<b>Last day of blocked modules:</b>	(7. KW) Friday, 13.02.2015
<b>SS 15</b>	<b>First day of blocked modules:</b>	(16. KW) Monday, 13.04.2015
	<b>First day of <u>un</u>blocked modules:</b>	(16. KW) Monday, 13.04.2015
	<b>Last day of <u>un</u>blocked modules:</b>	(30. KW) Saturday, 25.07.2015
	<b>Last day of blocked modules:</b>	(32. KW) Friday, 07.08.2015

**Free of lectures:** All Saints' Day: 01.11.2014, Christmas holidays: Mo 22.12.2014 – Tu 06.01.2015, Easter holidays: Fr 03.04. – Mo 06.04.2015, Labour Day: Fr 01.05.2015, Ascension Day: Tu 14.05.2015, Pentecost holidays: Mo 25.05.2015 – Sa 30.05.2015 (excursions might take place), Feast of Corpus Christi: Th 04.06.2015. The "Dies Academicus" (probably 03.07.2015) will be free of lectures too.

## Examination periods in winter semester 2014/15

**B.Sc. and M.Sc. period 1:** calendar week 7 to 9  
**B.Sc. and M.Sc.: period 2:** calendar week 14 to 15  
**Deadline for the registration for exams:** is fixed by the examination office

## Examination periods in summer semester 2015

**B.Sc. and M.Sc. period 1:** calendar week 31 to 33  
**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>)..