



UNIVERSITY OF
HOHENHEIM



Curriculum

September
2019

Crop Sciences

Master of Science

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Preamble

This curriculum provides applicants and students as well as teaching and administrative staff with information about the M.Sc. program „Crop Sciences“. It contains information on the program structure and summarizes the most important examination regulations (issued the 12th of February 2019 including all changes until July 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 co-ordinator of the program (cropsciences@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 of all courses offered at the University of Hohenheim are displayed in the Course Catalogue of the University of Hohenheim**, available at the beginning of each semester online on the university's homepage: uni-hohenheim.de.

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The Master's Program „Crop Sciences”

Program Objectives

The goal of crop sciences is to develop crops and cropping systems with highest possible efficiency in converting light and supplemental resource into food, feed, and fiber. Biological, physiological, molecular genetic and biometric principles are applied and graduates are prepared to develop cropping systems that are profitable and ecologically sustainable.

Program Design

The two-year M.Sc. program “Crop Sciences” comprises four semesters, during which thematic modules and the Master Thesis have to be completed.

One of the following majors has to be chosen and the title of the chosen major will be reported in the transcript of records.

- „Plant Breeding and Seed Science“
- „Plant Nutrition and Protection “

The full program has an extent of 120 ECTS credits and is constructed by 4 semesters each with 30 ECTS-credits. The language of instruction is English and the program can be started in October (winter semester) each year.

Modules

Most modules last the full length of the semester. Some elective modules 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.

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).

Module Descriptions

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

Individual Timetable

The Course Catalogue of 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. 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.

Structure of the major „Plant Breeding and Seed Science”

	1. Semester	2. Semester	3. Semester	4. Semester
6 Credits	3502-440 Methods of Scientific Working (for Crop Sciences)	3402-450 Advanced Statistical Methods for Metric and Categorical Data	3501-460 Planning of Breeding Programs	Master Thesis (30 credits)
6 Credits	3502-450 Population and Quantitative Genetics	3501-450 Breeding Methodology	3501-470 Selection Theory	
6 Credits	Elective Module	3504-430 Seed Research	Elective module	
6 Credits	Elective Module	Elective module	Elective module	
6 Credits	Elective Module	Elective module	Elective module	

Major: Plant Breeding and Seed Science

The compulsory modules (42 credits) are:

Sem	Code	Name of Module	Duration	Credits	Professor
1	3502-440	Methods of Scientific Working (for Cr. Sciences)	1 Semester (in the morning)	6	Schmid
1	3502-450	Population and Quantitative Genetics	1 Semester	6	Schmid
2	3501-450	Breeding Methodology	1 Semester	6	N.N.
2	3504-430	Seed Research	1 Semester	6	Kruse
2	3402-450	Advanced Statistical Methods for Metric and Categorical Data	1 Semester	6	Piepho
3	3501-470	Selection Theory	1 Semester	6	N.N.
3	3501-460	Planning of Breeding Programs	1 Semester	6	N.N.

The **elective modules** can be chosen from the listing below or from the modules of other Master programs of the faculty of Agricultural Sciences of the University of Hohenheim. On request to the examination board and with the approval of a mentor, modules can be chosen from other programs of the University of Hohenheim.

Suggestions for **elective modules** for **Plant Breeding and Seed Science** (48 credits have to be chosen):

Sem	Code	Name of Module	Duration	Credits	Professor
1-4	3000-410	Portfolio-Module (Master) <i>(not graded)(see ILIAS*)</i>	Not defined	1 - 7,5	Müller, T.
1	3302-440	Physiology and Biochemistry of Crops	1 Semester (in the morning)	6	Ludewig
1	3603-480	Entomology	1 Semester	6	N.N.
1/3	3402-420	Quantitative Methods in Biosciences	1 Semester	6	Piepho
1	3504-460	Seed Testing **	1 Semester	6	Kruse
2	3502-470	Plant Genetic Resources	First half of semester	6	Schmid
2	3504-450	Saatguttechnologie	1 Semester	6	Kruse
3	3402-460	Advanced Statistical Methods for Metric and Categorical Data II	1 Semester	6	Piepho
3	3411-420 3505-420	From Genes to Transgenic Plants and Edited Genomes	1 Semester (in the morning)	6	Schmöckel
3	4302-420	Ethical Reflection on Food and Agriculture **	1 Semester	6	Bieling

* https://ilias.uni-hohenheim.de/goto.php?target=crs_318386&client_id=UHOH

** Number of places is limited. Please register for participation per ILIAS

Blocked Modules (might have significant time overlapping with unblocked modules!)

Sem	Code	Name of Module	Duration	Credits	Professor
1	1301-410 2302-410	Spring School "Extreme Environments"***	blocked in Febr.-Mar.	7,5	Fox
2	4605-500 4602-500	Biologische Sicherheit und Gentechnikrecht	Block 2, SS	7,5	Beyer
2	3501-480	Breeding of Tropical, Ornament., and Vegetable Plants	Block 3, SS	7.5	N.N.

**Structure of the major
„Plant Nutrition
and Protection”**

	1. Semester	2. Semester	3. Semester	4. Semester
6 Credits	3502-440 Methods of Scientific Working (for Crop Sciences)	Elective module	Elective module	Master Thesis (30 credits)
6 Credits	3302-500 Methods in Molecular Biology and Biotechnology	Elective module	Elective module	
6 Credits		Elective module	Elective module	
6 Credits	3302-440 Physiology and Biochemistry of Crops	Elective module	Elective module	
6 Credits	3411-420 From Genes to Transgenic Plants a. Edited Genomes	Elective module	Elective module	

Instead of choosing five elective modules per semester (each 6 credits) as shown above, the major “Plant Nutrition and Protection” offers the possibility to choose four blocked modules (each 7.5 credits) offered by the Faculties of Agricultural Sciences and/or Natural Sciences during the second and/or the third semester. Choosing modules of the Faculty of Natural Sciences requires the approval of a mentor and a request to the examination board.

Major: Plant Nutrition and Protection

The **compulsory modules** (30 credits) are:

Sem	Code	Name of Module	Duration	Credits	Professor
1	3502-440	Methods of Scientific Working (for Crop Science)	1 Semester (in the morning)	6	Schmid
1	3302-440	Physiology and Biochemistry of Crops	1 Semester (in the morning)	6	Ludewig
1	3411-420	From Genes to Transgenic Plants and Edited Genomes	1 Semester (in the morning)	6	Schmöckel
1	3302-500	Methods in Molecular Biology and Biotechnology	1 Semester (in the afternoon)	12	Ludewig

The **elective modules** can be chosen from the listing below or from the modules of other Master programs of the faculty of Agricultural Sciences of the University of Hohenheim. On request to the examination board and with the approval of a mentor, modules can be chosen from other programs of the University of Hohenheim.

Suggestions for **elective modules for Plant Nutrition and Protection** (60 credits have to be chosen):

Sem	Code	Name of Module	Duration	Credits	Professor
1-4	3000-410	Portfolio-Module (Master) (not graded)(see ILIAS*)	open	1 - 7,5	Kruse, M.
1	1301-410 2302-410	Spring School "Extreme Environments"***	blocked in March	7,5	Fox
1/3	3402-420	Quantitative Methods in Biosciences	1 Semester	6	Piepho
1/3	4611-420	The Bacterial Genome, from Culture to Functional Reconstruction	blocked in March	6	Kube

Sem	Code	Name of Module	Duration	Credits	Professor
2	3302-430	Molecular Plant Nutrition	1 Semester	6	Ludewig
2	3401-450	Conservation Agriculture	1 Semester	6	Claupein
2	3302-490	Rhizosphere Processes - Nutrient Acquisition and Stress Adaptations of Higher Plants	1 Semester	6	Neumann
2	3401-500 3401-490	Bioactive Compounds of Food Crops Qualitätsrelevante Inhaltsstoffe von Nutzpflanzen	1 Semester	6	Graeff-Hönninger
2	3402-450	Advanced Statistical Methods for Metric and Categorical Data	1 Semester	6	Piepho
2	3411-410	Understanding Stress Physiology to Increase Yield Stability	1 Semester	6	Schmöckel
2	3502-470	Plant Genetic Resources	First half of semester	6	Schmid
2	3505-410	Genomics in Plant Breeding	1 Semester	6	Scholten
2	3505-470	Basics of Bioinformatics/ Grundl. der Bioinformatik	1 Semester	6	Scholten
2	3602-460	Information Technologies and Expert Systems in Plant Protection	1 Semester + (partly blocked in June)	6	Gerhards
2	3603-420	Crop Protection in Organic Farming	1 Semester	6	N.N.
2	3603-490	Biological Pest Control	1 Semester	6	N.N.
2/3	3301-480	Fertilisation and Soil Fertility management in the Tropics and Subtropics	e-learning 1 Semester	7.5	Müller, T.
3	3102-410	Environmental Microbiology	1 Semester	6	Kandeler
3	3103-410	Plant and Crop Modeling	In March	6	Priesack
3	3302-450	Plant Symbioses for Nutrient Acquisition		6	Neumann
3	3302-460	Plant Quality	1 Semester	6	Ludewig
3	3601-460	Molecular Phytopathology (partly blocked in March)	1 Semester +blocked	6	Vögele
3	3602-450	Molecular Aspects of Plant Protection	1 Semester	6	Gerhards
3	3603-480	Entomology	1 Semester	6	N.N.
3	4302-420	Ethical Reflection on Food and Agriculture **	1 Semester	6	Bieling
3	4905-420 3801-420	Crop Production Systems	1 Semester	6	Cadisch

* https://ilias.uni-hohenheim.de/goto.php?target=crs_318386&client_id=UHOH

** Number of places is limited. Please register for participation per ILIAS

Suggestions for semester packages of **blocked elective modules** including modules offered by the **Faculty of Natural Sciences**. Choosing modules of the Faculty of Natural Sciences – codes starting with “1” or “2” - requires the approval of a mentor and a request to the examination board. Most modules have a strictly limited number of participants; access is not guaranteed.

Modules for a blocked summer semester (with 4 modules x 7.5 credits):

Sem	Code	Name of Module	Duration	Credits	Professor
2	2601-430	Entwicklungsbiologie der Pflanzen*	Block 1, SS	7,5	Schaller
2	2102-420	Bioaktive Pflanzenstoffe*	Block 2, SS	7,5	Schlüter
2	1101-410	Applied Mathematics for the Life Sciences II *	Block 2, SS	7,5	Kügler
2	4605-500	Biologische Sicherheit und Gentechnikrecht	Block 2, SS	7,5	Beyer
2	4905-430	Integrated Agricultural Production Systems	Block 2, SS	7,5	Cadisch
2	4905-470	Biodiversity and Genetic Resources	Block 2, SS	7.5	Rasche
2	4907-420	Ecophysiology of Crops in the Tropics and Subtropics	Block 2, SS	7,5	Asch
2	2402-410	Molekulare Virologie**	Block 3, SS	7,5	Pfitzner
2	4907-430	Crop Production Affecting the Hydrological Cycle	Block 3, SS	7,5	Asch
2	2402-420	Angewandte molekulare Virologie**	Block 4, SS	7,5	Pfitzner
2	2202-400	Pathogens, Parasites and their Hosts, Ecology, Molecular Interactions and Evolution***	Block 4, SS	7,5	Mackenstedt

* Limited number of participants. Registration/selection via ILIAS.

** These two have an advanced level of microbiology and have to be taken together. Registration/selection via ILIAS.

*** = EuroLeague Summer school: 8 places for UHOH-students!

Modules for a blocked winter semester (with 4 modules x 7.5 credits):

Sem	Code	Name of Module	Duration	Credits	Professor
3	3000-410	Portfolio-Module (Master) (not graded)(see ILIAS*)	open	1 - 7,5	Kruse, M.
3	2601-410	Pflanze-Pathogen Interaktionen**	Block 2, WS	7.5	Schaller
3	2602-500	Regulatorische Prinzipien pflanzlicher Signaltransduktionswege**	Block 3, WS	7.5	Schulze
3	2203-410	Chemische Signale bei Tieren**	Block 4, WS	7.5	Steidle
3	1301-410 2302-410	Spring School "Extreme Environments"***	blocked in Febr.-Mar.	7.5	Fox
3	3102-450	Molecular Soil Ecology **	blocked in March	6	Kandeler
3	3103-410	Plant and Crop Modeling	blocked in March	6	Priesack

* https://ilias.uni-hohenheim.de/goto.php?target=crs_318386&client_id=UHOH

** Limited number of participants! Registration/selection via ILIAS.

Semester Duration and Lecture Times

A 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“).

Credit Point System

With each completed module the students earn credits for the workload associated with each module. The M.Sc. program has a total requirement of 120 credits. The credit point system used in the M.Sc. program is fully compatible with the European Credit Transfer System, ECTS.

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). 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.

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

Marks and Grades

	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 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.

Registering for Examinations

Students have to register for the examinations of each semester at the examination office per *HohCampus* during the time period announced at the examination office. When you have to register for an examination depends on whether it is a blocked or a non-blocked module. Withdrawal from each module’s examination is possible until 7 days before the examination date. More information on examination periods and dates, deadlines for registration, withdrawal, and resits is given at the homepage of the examination office: <https://www.uni-hohenheim.de/en/examination>.

Examinations

Each module is examined upon completion in an oral or a written exam. The examination may be divided in sections which can be weighted differently. The weighting of the partial performances (in-course assessments = ICA) is written down in the module descriptions. The examinations of the modules should be taken within the semester scheduled in this curriculum. 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.

The claim for examination expires if:

- one of the modules needs to be repeated more than two times
- the examination of one of the modules or of the Master Thesis has not been passed by the end of the seventh semester at the latest.

The claim for examinations does not expire, if the candidate cannot be held responsible for the failure to comply with the deadline. 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 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 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. Students are responsible themselves to check with the responsible professor or the examination office about dates for repeater exams and registration deadlines. 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 „Crop Sciences“, within a fixed period of time by applying scientific methods. The exam consists of a written part (thesis) and an oral presentation (defence). 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. There might be cases, depending on the chosen modules, for which the third semester is more appropriate. Thesis work can pursue empirical or theoretical questions related to ongoing research projects but students' own initiatives and ideas are certainly welcome. It includes a literature review as well as new and original data derived from field and or laboratory work. This work can be carried out either at University of Hohenheim or at one of the partner universities.

There are several possibilities for finding the right reviewer and the right topic. Sometimes you can find them from the homepage of the department or institute, or you can talk directly to a professor.

The Master's thesis has to be registered at the latest three months after notification of the final passed module examination or at the start of the seventh semester. Otherwise it is graded "fail" (F; mark 5.0).

Evaluation of Modules

The quality of courses and modules is evaluated every 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.

Academic calendar

In the winter semester (WS) courses usually begin in week 42 and end in week 6 or 7 of the new year. In the summer semester (SS) courses usually begin the

	<p>first Monday in April and end in week 30, 31, or 32. For un-blocked modules the lecture period of each semester is followed by an ex-amination period of three weeks. The last block period of each semester has an overlapping with this examination period of the unblocked modules.</p>
Teaching Staff	<p>The professors of the University of Hohenheim have broad experience in international research. Students also benefit from Hohenheim's network with academic partners worldwide. Guest speakers from partner universities as well as research, development and policy institutions cover additional topics, and thus enrich the curriculum with special fields of expertise.</p>
Mentoring	<p>A personal mentor from the teaching staff is assigned to advice on appropriate profiles and support smooth and goal-oriented study progress. The form on page 17 serves as a basis for a counseling interview. Fill in name, code, and credits of all modules and specify for each module if it is a compulsory (C), semi-elective (S), elective (E) or an additional (A) module for you. It is strongly recommended NOT to mix blocked and unblocked modules within one semester.</p> <p>The following scientists have been appointed as mentors:</p> <p>Plant Breeding and Seed Science:</p> <ul style="list-style-type: none"> • Prof. Dr. Schmid (Crop Biodiversity and Breeding Informatics, 350) <p>Plant Nutrition and Protection:</p> <ul style="list-style-type: none"> • Prof. Dr. Ludewig (Nutritional Crop Physiology, 340) • Prof. Dr. Neumann (Nutritional Crop Physiology, 340) • N.N. (Applied Entomology, 360) • Prof. Dr. Voegelé (Phytopathology, 360)
Academic advisor	<p>providing specific information on the disciplines:</p> <ul style="list-style-type: none"> • Dr. Tobias Schrag (tobias.schrag@uni-hohenheim.de, phone: 459-23483)
Study Abroad	<p>Students are encouraged to spend one semester in the second year at a partner university abroad, to gain additional experience and further strengthen their individual profile. Our credit point system is intended to facilitate the mutual acceptance of courses attended at different universities. Assessment is based on the European Credit Transfer System (ECTS), which facilitates such kind of international mobility. German students are strongly advised to spend a semester abroad. Particularly, the third semester is suitable for integrated study abroad. Students will preferably spend this time at one of the partner universities of the Euroleague for Life Sciences: Universität für Bodenkultur Wien (BOKU), Austria; Royal Veterinary and Agricultural University (KVL), Denmark; Swedish University of Agricultural Sciences (SLU), Sweden; Wageningen University, Netherlands; Czech University of Agriculture (CUA), Czech Republic, Warsaw Agricultural University (SGGW), Poland. On the basis of an agreement on quality standards the members of the Euro League for Life Sciences have agreed to mutually recognize study achievements. Quantitative parity of study achievements is based on the European Credit Transfer System (ECTS). Students may also request to spend the semester at universities other than mentioned above.</p>
Degree	<p>After successful completion of all modules as well as the thesis, the student is awarded the degree "Master of Science" (M.Sc.) in Crop Sciences. This degree entitles the student to continue with a Ph.D./doctoral program if the total grade is above average.</p>
Responsible Scientist	<p>Prof. Dr. U. Ludewig Department of Nutritional Crop Physiology</p>
Professors in charge of the majors	<p>Prof. Dr. U. Ludewig, Nutritional Crop Physiology Prof. Dr. K. Schmid, Crop Biodiversity and Breeding Informatics</p>
Contact	<p>Program Coordinator Crop Sciences Katrin Winkler</p>

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Geblockte Module der Fakultät Agrarwissenschaften für das Wintersemester 2019/20

05.08.2019

Blocked Modules in Winter Semester 2019/20

● = 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.Sc. Agrarwissenschaften					○ 4606-220 (Weiler) Nutztier-systemmanagement – Schwein (6 credits)
M.Sc. Agrarwissenschaften Pflanzen- und Tierwissensch.					○ 4611-420 (Kube) Das bakt. Genom, exemplarisch von der Kultur zur funktion. Analyse
M.Sc. Agrarwissenschaften Tierwissenschaften					◐ 4601-480 (Rodehutscord) Futtermitteltechnologie und -analytik
M.Sc. Agrarwissenschaften Bodenwissenschaften					◐ 3102-450 (Kandeler) Molecular Soil Ecology (6 credits)
M.Sc. EnviroFood					◐ 3003-410 (Schöne) Food Safety and Quality Chains 25.2. – 8.3.19 (6 credits)
M.Sc. Landscape Ecology	● 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!)
M.Sc. EnvEuro Ecosystems 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!)
M.Sc. Crop Sciences (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) Regulatorische Prinzipien pflanzlicher Signaltransduktionswege (5 Plätze für CS)	○ 2203-410 (Steidle) Chemische Signale bei Tieren (3 Plätze für CS)	○ 3103-410 (Priesack) Plant and Crop Modeling (6 credits)
Sonstige M.Sc./Other M.Sc.					○ 1301-410 (Fox) Spring School "Extreme Environments" (7.5 credits!)
					○ 4909-430 (Focken) Experimental 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 2020

Blocked Modules in Summer Semester 2020

15.08.2019

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

Studiengang / Study Course	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)
	06.04. - 30.04.2020	04.05. - 29.05.2020	08.06. - 03.07.2020	06.07. - 31.07.2020		
M.Sc. Agrarwissenschaften Bodenwissenschaften	<p>◐ 3103-450 (Streck) Spatial Data Analysis with GIS</p>	<p>◐ 3102-440 (Kandeler) Environmental Pollution and Soil Organisms</p>	<p>◐ 3101-570 (Herrmann) Boden- und veg.kundl. Geländeübung / Field Course Soils + Vegetation</p>	<p>● 3101-430 (Herrmann) Integriertes bodenwissenschaftliches. Projekt für Fortgeschrittene</p>	<p>◐ 3102-420 (Kandeler) Bodenwissenschaftliches Experiment/Project in Soil Sciences (Engl.+ Ger.)</p>	
	<p>2019, 2021: ◐ 3101-460 Herrmann) Soils of the World - Formation, Classification, and ...</p>	<p>2020, 2022: ◐ 3101-580 (Rennert) Bodenschutz, Bodenbewertung, -sanierung</p>	<p>◐ 3201-620 (Schmieder) Vegetation and Soils of Centr. Europe</p>			<p>○ 3101-420 (Herrmann) Internationale standortkundliche Geländeübung / International Field Course Site Evaluation (Engl.+Ger.) (September 2020, 2022, 2024, ..)</p>
M.Sc. Agrarwissenschaften	<p>○ 3602-410 (Gerhards) Integrierter Pflanzenschutz mit Übungen</p>	<p>○ 4605-500 (Beyer) Biologische Sicherheit und Gentechnikrecht</p>	<p>◐ 7301-410 (Rosenkranz) Bienen</p>	<p>○ 4604-420 (Steffli) Seminar zu klinischen Fallstudien der Spez. Anatomie und Phys. d. Nutztiere</p>		
			<p>○ 7301-400 (Rosenkranz) Soziale Insekten (10 Plätze f. Fak. A)</p>			
Tierwissenschaften: Profil Ernährung und Futtermittel	<p>◐ 4603-420 (Seifert) Futtermittelmikrobiologie</p>	<p>◐ 4601-470 (Rodehutschord) Tracerbasierte Methoden i.d. Tierernährung</p>		<p>◐ 4601-450 (Rodehutschord.) Spezielle Ernährung der Wiederkäuer</p>		
Tierwissenschaften: Profil Genomik und Züchtung		<p>◐ 4607-510 (Bennewitz) Zuchtplanung und Zuchtpraxis i.d. Nutztierwissenschaften (nicht SS 2020)</p>	<p>◐ 4608-420 (Hasselmann) Molekulare Evolution und Populationsgenetik</p>			
Tierwissenschaften: Profil Gesundheit und Verhalten	<p>◐ 4606-490 (Stefanski) Verhaltensbiologie</p>	<p>◐ 4606-420 (Stefanski) Immunologie und Infektionsbiologie</p>	<p>◐ 4604-410 (Huber) Leistungsassoziierte Stoffwechselstörungen bei landw. Nutztieren</p>	<p>◐ 4605-490 (Hölzle) Spezielle Tierhygiene</p>		
M.Sc. AgriTropics	<p>● 4907-440 (Asch) Interdisziplin. Practical Science Training</p>	<p>○ 4905-470 (Rasche) Biodiversity and Genetic Resources</p>	<p>○ 4909-420 (Dickhöfer) Quantitative Meth. in Animal Nutrition + Vegetation Sciences</p>			
Livestock		<p>○ 4908-480 (Chagunda) Animal Breeding for Sustainable Development</p>		<p>○ 4908-420 (Chagunda) Promotion of Livestock in Trop. Environments</p>		
Crops		<p>○ 4905-430 (Cadisch) Integrated Agricultural Production Systems</p>	<p>○ 4907-430 (Asch) Crop Production Affecting the Hydrological Cycle</p>			
		<p>○ 4907-420 (Asch) Ecophysiology of Crops in the Tropics and Subtropics</p>				
Engineering		<p>○ 4403-550 (Müller, J.) Postharvest Technology of Food and Bio-Based Products</p>	<p>○ 4403-470 (Müller, J.) Renewable Energy for Rural Areas</p>	<p>○ 4403-410 (Müller, J.) Irrigation and Drainage Technology</p>		

Social Sciences				○ 4302-450 (Lemke) Gender, Nutrition, and Right to Food	
M.Sc. Crop Sciences (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			
M.Sc. EnviroFood	● 3103-450 (Streck) Spatial Data Analysis with GIS	☛ 3102-440 (Kandeler) Environmental Pollution and Soil Organisms		○ 4302-450 (Lemke) Gender, Nutrition, and Right to Food	
		☛ 4905-470 (Rasche) Biodiversity and Genetic 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	
M.Sc. EnvEuro 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.
		☛ 4905-470 (Rasche) Biodiversity and Genetic 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) Bodenwissenschaftl. 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, ,,)
		☛ 4905-470 (Rasche) Biodiversity and Genetic Resources	☛ 4302-470 (Bieling) Landscape Change, Resilience, and Ecosystem Services	☛ 3201-600 (Schurr) Intensive Course Landscape Ecology	
M.Sc. Landscape Ecology	☛ 3201-590 (Schurr) Combining Ecological Modells 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)	☛ 4905-470 (Rasche) Biodiversity and Genetic 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 Duration within all Master's Programs of the Faculty of Agricultural Sciences

Master's Program		Semester Structure				
Program	Specialisation	Language	Winter Semester 1 (Compulsory-/SE)	Summer Semester1 (Compulsory/SE/Elective)	Winter Semester 2 (Compulsory/SE/Elective)	Summer Semester 2
AW	Agrartechnik	German	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
	Bodenwissenschaften	German	Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
	Pflanzenproduktionssysteme	German	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
	Tierwissenschaften	German	Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
Agribusiness		German	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
NawaRo		German	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
Crop Sciences	Plant breeding & seed scien. Plant nutrition & protection	English	Whole Semester	Whole Semester	Whole Semester	Master's-Thesis
			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	
Double Degree Specialisation						
EnvEuro	Ecosystems & Biodiversity		Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
	Environmental Impacts		-	-	Whole Semester	Master's-Thesis
	Environmental Management	English	Whole Semester	4 Weeks Blocked	Whole Semester	Master's-Thesis
	Climate Change		-	-	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

MSc-Studien- und Prüfungsplan

MSc Study and Examination Plan

Name: _____

Studiengang / Study Program: _____

Dieser Plan dient als Diskussionsgrundlage für ein Beratungsgespräch und ist danach für Ihre Unterlagen bestimmt. Geben Sie bei jedem Modul Modulkennung, Modulname, Credits und Verbindlichkeit an. (P=Pflicht-, WP=Wahlpflicht-, W=Wahl-, Z=Zusatzmodul). Es wird dringend empfohlen, in einem Semester entweder nur geblockte oder ungeblockte Module zu belegen. **Bitte achten Sie selbst darauf, bis zum Ende Ihres Studiums die für Ihren Studiengang erforderliche Anzahl von Wahlpflichtmodulen abzulegen.** | This document serves as a basis for a counselling interview. Keep it with your own study documents afterwards. Fill in name, code, and credits of all modules and specify for each module if it is a compulsory (C), semi-elective (S), elective (E) or an additional (A) module for you. It is strongly recommended NOT to mix blocked and unblocked modules within one semester. **It is within your own responsibility to achieve the minimum amount of semi-elective modules required for your study program until the end of your studies.**

1. Semester WS / SS:	Verbindlichkeit Bindingness	Credits	2. Semester: WS / SS:	Verbindlichkeit Bindingness	Credits	3. Semester: WS / SS:	Verbindlichkeit Bindingness	Credits	4. Semester: WS / SS:	Verbindlichkeit Bindingness	Credits
Σ Semester-Credits	X		X	X		X	X		X	X	

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

WS 19/20	First day of <u>un</u>-blocked modules:	(42. KW) Monday, 14.10.2019
	First day of blocked modules:	(42. KW) Monday, 14.10.2019
	Last day of <u>un</u>-blocked modules:	(5. KW) Saturday, 01.02.2020
	Last day of blocked modules:	(7. KW) Friday, 14.02.2020
SS 20	First day of blocked modules:	(15. KW) Monday, 06.04.2020
	First day of <u>un</u>-blocked modules:	(15. KW) Monday, 06.04.2020
	Last day of <u>un</u>-blocked modules:	(29. KW) Saturday, 18.07.2020
	Last day of blocked modules:	(31. KW) Friday, 31.07.2020

Free of lectures: All Saints' Day: Fri, 01. Nov. 2019, Christmas holidays: Mo, 23. Dec. 2019 – Mo 06. Jan 2020, Easter: Fri, 10. Apr. – Mon, 13. Apr. 2020, International Labour Day: Fri, 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>).