



# University of Hohenheim Examination Regulations for the Master's Degree Programs in the Faculty of Agricultural Sciences

## Unofficial Reading Version

The examination regulations from 16 May 2014 (Official Communications of the University of Hohenheim No. 971 from 16 May 2014 including

- the amendment to Annexes 3 and 6 (Decision by the Faculty Council from 2 July 2014))
- 1st statute to amend the examination regulations from 20 May 2015 (Official Communications 1055)
- 2nd statute to amend the examination regulations from 29 July 2015 (Official Communications 1067)
- 3rd statute to amend the examination regulations from 23 May 2016 (Official Communications 1102)
- 4th statute to amend the examination regulations from 18 July 2016 (Official Communications 1113)
- 5th statute to amend the examination regulations from 11 November 2016 (Official Communications 1128)
- 6th statute to amend the examination regulations from 7 March 2017 (Official Communications 1136)
- 7th statute to amend the examination regulations from 16 May 2017 (Official Communications 1154)
- 8th statute to amend the examination regulations from 24 November 2017 (Official Communications 1165)
- 9th statute to amend the examination regulations from 24 July 2018 (Official Communications 1188)

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Created on 18 December 2017 by the Faculty of Agricultural Sciences' administration

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## GENERAL PART

### Section 1 Area of Applicability and Content of the Examination Regulations

- (1) These examination regulations apply for all of the University of Hohenheim's Master's degree programs in the Faculty of Agricultural Sciences.
- (2) The examination regulations are divided into a general and particular part. The general part includes provisions that are standardized and binding for all of the Master's degree programs. The particular part includes provisions specific to individual degree programs that only apply to the respective Master's degree program.
- (3) In addition to these examination regulations, the Faculty of Agricultural Sciences is to make a curriculum and module catalog for each Master's program.

### Section 2 Purpose of the Examination and Academic Degree

- (1) The Master of Science examination is intended to determine whether the students understand the context of the program content and have the ability to apply more in-depth scientific methods and insights to work as a scientist in a specific career field.
- (2) When the Master's examination has been passed, the academic degree "Master of Science" (abbreviated: M.Sc.) is awarded.

### Section 3 Standard Period of Study, Program Structure, Modules

- (1) The standard period of study for Master's degree programs is four semesters and includes all examinations and the Master's thesis.
- (2) The Master's examination consists of module examinations completed during the course of studies and the final Master's thesis. Modules are offered during the semester or as blocks. Modules include one or more courses with related content that are chronologically coordinated. Typically, modules are each completed with a graded or ungraded module examination. Study content is oriented on the currently valid curriculum together with the module catalog.
- (3) The Master's degree programs include compulsory and in some cases semi-elective and elective modules as set down in the provisions in these examination regulations specific to the respective degree program. Students can take examinations in "additional modules" (*Zusatzmodule*) besides the required modules. The results are to be included in the transcript of records upon request but are not included in the calculation of the average grade.
- (4) For successfully complete modules, ECTS credits (in the following: "credits") are given. A module is considered to have been successfully completed when the module examination according to Section 18 has been passed.
- (5) To successfully complete the Master's examination, at least 120 credits need to have been obtained, 30 of which are from the Master's thesis. The provisions specific to the degree programs in these examination regulations and in the curricula set down the number, name, and scope of modules that must be completed during the degree program.

### Section 4 Provisions for Imported Modules

For examinations that are offered by the University of Hohenheim's Faculty of Natural Sciences and Faculty of Business, Economics and Social Sciences, the form, composition, and duration of the module examination, the admission requirements, and the time of the examination are determined by the provisions of the Faculty offering the examination. Sentence 1 applies accordingly to module examinations that are taken at other universities in the context of cooperation degree programs with the University of Hohenheim. This includes module examinations that are in the University of Hohenheim's degree program curriculum but are completed as course imports at another university. Module examinations in modules that are completed as part of double degree programs at partner universities follow the regulations of the respective partner university. More details can be found in the provisions for the individual degree programs.

### Section 5 Language of Instruction and Examination

The language of instruction and examination is German or English. More details can be found in the provisions for the individual degree programs. Individual elective and semi-elective modules may be offered completely or in part in the other language of instruction and examination. However, there must be a sufficient number of modules offered in the degree program's official language of instruction and examination for the program to be completed entirely in that language. The language of instruction and examination for all modules is to be set down in the module

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catalog. The responsible examiners can permit coursework and examinations to be done in a language other than the language stated in the module catalog.

### **Section 6 Examination Committee**

- (1) For each Master's program, an examination committee will be established to organize the examinations and other tasks assigned by these examination regulations. An examination committee can also be responsible for more than one degree program.
- (2) Each examination committee consists of five members of the research staff primarily employed by the University, and three of these members must be employed as professors. The term of office is two years. Two student members also belong to the examination committee in an advisory function. Their term of office is one year. The chair, the members of the examination committee, and their substitutes are appointed by the Faculty of Agricultural Sciences' Faculty Council. At the same time, the assistant chair and substitute members are to be appointed. Reappointment is permitted.
- (3) The chair carries out the examination committee's daily business. The examination committee decides by a simple majority vote; if there is a tie, the chair casts the deciding vote. The examination committee has a quorum if at least two voting members including one professor are present in addition to the chair. Meetings of the examination committee are not open to the public.
- (4) The examination committee may delegate regular tasks to the chair. In urgent matters that cannot wait until the examination committee's next meeting, the chair makes a decision on behalf of the examination committee. The reasons for this urgent decision and the way in which it was decided are to be reported to the members of the examination committee at the latest during the next examination committee meeting.
- (5) Minutes must be taken of the examination committee's decisions.
- (6) The examination committee members have the right to sit in on examinations.
- (7) The members of the examination committee and their substitutes are obligated to respect official secrecy. If they are not public employees, the chair is to require them to maintain secrecy.
- (8) When the examination committee decides to reject a request, the affected people are to be informed immediately in writing with the reasons. This notification includes a legal notice.
- (9) The Examinations Office aids the examination committee in fulfilling its tasks.
- (10) The Procedural Order for Committees and Commissions at the University of Hohenheim is applicable in its respectively valid version.

### **Section 7 Examiners and Observers**

- (1) Only professors, lecturers, private lecturers, tenure-track professors and contract lecturers are permitted to examine in addition to research associates who have the authority to examine according to Sec. 52(1) sentence 1, phrase 2 of the State Higher Education Act (Landeshochschulgesetz, LHG).
- (2) Only those people who have a degree that is at least equivalent to the degree for which the examination is taking place may be observers (Beisitzende) for the examination.
- (3) The Master's thesis and defense are to be assessed by two examiners according to Sec. 18(2).
- (4) The first examiner for the Master's thesis and its defense may only be a professor, lecturer, private lecturer, tenure-track professor, or contract lecturer or a research associate who has the authority to examine according to Sec. 52(1) sentence 1, phrase 2 of the State Higher Education Act (Landeshochschulgesetz, LHG).
- (5) The first examiner should be the person who allocated and supervised the topic according to Sec. 20(3). If the supervisor is not a member of the University of Hohenheim, the supervisor may only be the second examiner. The first examiner must be a member of the University of Hohenheim.
- (6) In deviation to this regulation, it is sufficient for the second examiner to have a degree that is at least equivalent to the degree for which the examination is taking place. The second examiner does not have to be a member of the University of Hohenheim. The first examiner is to appoint the second examiner. The specific regulations for the double degree programs in the particular part of these examination regulations may set down additional provisions.
- (7) The examination dates and names of the examiners appointed for the individual modules will be announced by the Examinations Office in a timely manner. If the module examinations are organized by the faculties, the offices responsible for organizing them must pass on the information to the Examinations Office in a timely manner. There is no legal right to being assigned a certain examiner. The examiners are required to carry out the module examination within the set time periods if they are not prevented from doing so by good reasons that they must report to the chair of the examination committee in a timely manner.

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## **Section 8 Recognition of Coursework and Examinations, Accreditation of Study Periods**

- (1) Coursework and examinations that were completed in another study program at the University of Hohenheim, at another state or state-recognized university or cooperative education university within Germany, or in degree programs at foreign state or state-recognized universities will be recognized insofar as competencies or degrees obtained are not significantly different to those which they are to replace.
- (2) When recognizing coursework and examinations, they are considered to not be significantly different in the meaning of Sec. 8(1)
  - for a compulsory module, if the competencies obtained are in line with at least 75% of the learning and qualification objectives for the compulsory module listed in the Hohenheim module catalog; if there is any doubt, the module supervisor can be consulted;
  - for a semi-elective module, if the competencies obtained are suitable for the selected specialization area;
  - for an elective module, if the competencies obtained correspond to the level of those in the respective Master's program.
- (3) Knowledge and skills obtained outside of the university system can be recognized if the requirements for university entrance valid at the time the work is to be recognized are fulfilled, if the knowledge and skills are equivalent in terms of content and level to the coursework and examinations which they are to replace, and if the criteria for recognition have been reviewed during an accreditation process. When determining equivalency, an overall review and evaluation is to be made. In terms of content and requirements, the equivalency determination is oriented on the learning objectives and the competences to be taught in the module. Equivalency exists if the knowledge and skills obtained outside of the university system largely correspond to the content of the modules and the requirements. Knowledge and skills obtained outside of the university system may only be recognized up to a maximum of 50 percent of the credits in a degree program. A subject-area placement test is permitted. The responsible examination committee decides on the necessity and structure of the placement test.
- (4) Recognition of coursework and examinations is done upon written request. The person submitting the request is responsible for providing the required information on the work that is to be recognized. The examination committee decides on recognition of coursework and examinations. In cases of doubt, the examination committee can consult with module supervisors for related modules. The burden of proof that a request does not fulfill the requirements for recognition lies with the examination committee.
- (5) Recognition for coursework and examinations completed at another university may only be requested at the same time as admission or directly after being admitted, at the latest within three months after the start of the semester for which admission is granted. If the Examinations Office does not receive the request together with the necessary documentation on time, the right to recognition is lost.
- (6) If coursework and examinations are recognized, the grades are to be included according to Sec. 18 insofar as the grading systems are comparable and used for calculating the module grades and overall grade. If the grading systems are not comparable, the grade "passed" is noted. For the recognized coursework and examinations, the ECTS credits of the Hohenheim coursework and examinations are used that are being replaced by the recognized coursework and examinations. These credits are included in calculating the overall grade according to the provisions of these examination regulations. Recognized coursework and examinations are marked in the transcript of records.
- (7) Study periods are counted if the recognized coursework and examinations are allocated to the appropriate number of credits. Typically, a semester can be counted if at least 30 credits have been recognized. Participation in recognized distance-learning units is counted toward study periods to the same degree as an on-campus study program. The examination committee shall decide on recognition. Counting study periods according to Sec. 19 of the Ordinance on Higher Education Selection Process (Hochschulvergabeordnung) in the respectively valid version remains unaffected by this.
- (8) The Federal Republic of Germany's agreements with other states on university equivalency (equivalency agreements) and any agreements in the context of university partnerships must be observed.
- (9) A maximum of two compulsory modules can be replaced by the corresponding number of elective modules if proof is given that the knowledge to be gained in terms of the content and scope of the compulsory modules that are to be replaced has been obtained in a previous degree program and this degree program was a requirement for admission. Approval is granted by the examination committee upon the student's request. Approval will not be granted if compulsory modules in



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which an examination was already successfully completed during the Bachelor's program have already been replaced by semi-elective modules according to the provisions specific to the degree program.

### **Section 9 Study and Examination Plan**

- (1) In a study and examination plan, all selected modules and their credits can be listed under consideration of the respective provisions in the sections of these examination regulations relevant to the degree program.
- (2) The person being examined can obtain advice for creating and changing their study and examination plan for the "Master of Sciences" examination.
- (3) The student can choose an academic program advisor or mentor for the advising discussion on the appropriateness of the chosen combination. Upon the student's request, the degree program coordinator must assign a personal mentor within one month.
- (4) Degree program coordinators, academic program advisors, and mentors are appointed by the Faculty of Agricultural Sciences.
- (5) Compulsory modules are noted as such when registering for exams in the Examinations Office's online system. When registering for additional examinations, the students determine whether the module is an elective or semi-elective module.
- (6) For module examinations in additional modules, students register with the Examinations Office in writing during the time period set by the examination committee.
- (7) It is not permitted to exchange elective or semi-elective modules in which exam registration is already complete or examinations have already been taken. Exceptions are only possible if the student is not responsible for the reason the module needs to be changed.

### **Section 10 Final Deadline for the Master's Examination**

By the end of the standard period of study of four semesters, the student is to have successfully completed all module examinations in the degree program including the Master's thesis. Students who have not passed all module examinations by the end of the last examination period of the seventh semester lose their right of admission to an examination unless they are not responsible for the reason the deadline was missed. In particular, the protective periods according to Sec. 28 are considered reasons for which they are not responsible. The responsible examination committee decides on any extensions upon the student's request.

### **Section 11 Module Examinations**

- (1) The module examinations are to be taken in the semester set down in the curriculum.
- (2) Module examinations are made up of one or more examinations according to Sec. 12 and/or one or more coursework assignments according to Sec. 13. The make-up of the module examinations, the form of examination, and the weighting of the examinations and coursework as well as their chronological order are set by the Faculty upon the suggestion of the module supervisor and published in the module catalog before the start of the respective semester.
- (3) Based on a decision by the responsible Faculty Council, for a Master's program a maximum of 15 credits can be completed in modules with ungraded module examinations. These modules are to be marked as such in the curriculum.

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## **Section 12 Examinations**

- (1) Examinations are typically completed during the examination periods. In each semester, there are two examination periods for the modules that take place during the semester: the first takes place immediately following the lecture period, the second at the end of the lecture-free period. For the blocked modules, the first examination attempt is typically made immediately after the end of the block period in which the module takes place (first examination period). The second examination period for blocked modules is typically at the end of the lecture-free period. The examination periods are set and announced by the Examinations Office in coordination with the examination committees.
- (2) Students usually have to register online for the examinations within the registration period set by the Examinations Office, in exceptional cases registration can be done in writing with the Examinations Office. For modules that take place during the entire semester, it must be stated during registration whether the examination will be taken during the first or second examination period. If the student completes an examination without having been properly registered for the examination, the examination is considered not to have been taken.
- (3) When students register for an examination for the first time, they may deregister from that examination without giving any reason. Deregistration must be done in writing with the Examinations Office at the latest seven calendar days before the examination date. The date on which the Examinations Office receives the deregistration is what determines whether the deadline has been met. It is not possible to cancel the deregistration. Withdrawing after seven days before the examination or withdrawing when repeating a module examination is only possible under the conditions described in Sec. 24.
- (4) After deregistration, the Examinations Office automatically bindingly registers the student for the next possible examination date.
- (5) Examinations may be written according to Sec. 15, computer-based according to Sec. 16, or oral according to Sec. 17.
- (6) Examinations may be completed as soon as proof can be shown of the coursework required for admission to the examination according to Sec. 13.
- (7) The examinations are graded according to Sec. 18.

## **Section 13 Coursework**

- (1) Coursework can be a module examination, be one component of a module examination, or be an admission requirement for a module examination. This must be noted accordingly in the module catalog.
- (2) Coursework in a module examination can include written, computer-based, or oral examinations according to Secs. 15, 16, and 17 and in these cases are graded as described in Sec. 18. Graded coursework can be weighted proportionally and calculated as part of the module examination. This must be noted accordingly in the module catalog.
- (3) Coursework that is required to be admitted to a module examination is graded with pass/fail.
- (4) The module supervisor is generally responsible for organizing the coursework. It is not necessary to register coursework with the Examinations Office. Those persons who are authorized to examine and who carry out the respective courses are responsible for grading the coursework.

## **Section 14 Admission to Module Examinations**

- (1) Students who fulfill the following requirements may be admitted module examinations:
  1. Enrolled at the University of Hohenheim in the respective Master's program,
  2. Have not lost their right of admission to an examination in the respective Master's program or a related degree program,
  3. Have not failed the final attempt at the Master's examination in the respective degree program or a related degree program and are not in an ongoing examination process,
  4. Registered within the specified time, and
  5. Fulfill any requirements as stated in Sec. 14(2) and Sec. 13(1) that are required for admission to the module examination according to the curriculum and module catalog.
- (2) If the student must participate in the course to achieve the learning objective (e.g. for lab courses, excursions, and seminars), then admission to the module examination can be made dependent on attendance of the respective course. If attendance is compulsory, this must be stated in the module catalog.
- (3) Admission is to be denied if the requirements set down in Sec. 14(1) nos. 1-4 are not fulfilled at the time of registration or if the documents are not complete and are not submitted by the end of the registration period.
- (4) If the requirements in Sec. 14(1) nos. 1-4 are fulfilled, each student or the Examinations Office (in exceptional cases) registers for the examination in the Examinations Office's online system. The

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student is then admitted to the examination. The module supervisor reviews the admission requirements according to Sec. 14(1) no. 5 at the latest immediately before the module examination. If proof is not provided within the specified time, admission to the module examination is revoked. If the student still takes the module examination, it is invalid.

- (5) Admission must be revoked if the requirements according to Sec. 14(1) no longer exist at the time of the module examination.
- (6) Admission to examinations is done by the Examinations Office on behalf of the examination committee. Admission to coursework is done by the Examinations Office on behalf of the examination committee.

### **Section 15 Written Module Examinations**

- (1) Written module examinations include written exams, term papers, project reports, laboratory reports, and other written work.
- (2) The duration of the written exams should usually be at least 60 minutes and a maximum of 120 minutes. Details are regulated in the module catalog.
- (3) Term papers, project reports, or lab reports can be done in the form of group work if the individuals' work can be clearly delineated and graded.
- (4) Written module examinations are created and graded by an examiner, typically the module supervisor. The grading process should take no longer than six weeks. The results must be announced at the latest on the 10th calendar day before the re-take examination. For examinations, the grades are announced online by the Examinations Office. At the latest 5 business days before the next examination date, there should be at least one opportunity to inspect the exam. If the results are not announced by this deadline, then an additional examination date must be offered for the re-take examination that is at least 10 calendar days after the announcement of the examination results.

### **Section 16 Computer-Based Module Examinations**

- (1) Computer-based module examinations are similar to written examinations as described under Sec. 15 but are completed on a computer. Tasks in which answers must be selected are expressly prohibited. The answers are transferred electronically and, if possible, evaluated automatically. The examination content must be created by an examiner.
- (2) Before the computer-based examination, the examiner must ensure that the electronic data can be clearly identified and attributed unmistakably and permanently to the individual students. Technical assistance must be ensured so that the computer-based module examination runs without problems. The module examination must be carried out in the presence of a person competent in the subject. All questions must be available to be answered during the entire time of the examination.
- (3) In addition, the regulations in Sec. 15 apply accordingly to computer-based module examinations.

### **Section 17 Oral Module Examinations**

- (1) Oral module examinations are examination discussions, reports, lectures, presentations, and speeches.
- (2) Reports, lectures, speeches, or presentations can be done in the form of group work if the individuals' work can be clearly delineated and graded.
- (3) Oral module examinations are typically completed as group or individual examinations by an examiner in the presence of an observer.
- (4) The duration of the oral exams should usually be at least 20 minutes and a maximum of 45 minutes.
- (5) The key subjects and results of the module examinations are set down in minutes.
- (6) The result of the examination should be given to the student following the oral examination.
- (7) Depending on the space in the room, an audience may be permitted unless the person being examined objects. However, the audience may not listen to the consultation about the grade or the announcement of the grade to the person being examined.

### **Section 18 Grading the Module Examinations, Calculating the Module Grades, Passing Module Examinations**

- (1) For ungraded module examinations, the coursework and examinations are assessed with "pass" or "fail" by the examiner. Credits are only given for the module if the module examination is assessed with "pass". For ungraded module examinations that are made up of several examinations and/or multiple coursework assignments, the examination is only considered to have been passed if all of the coursework and examination elements assigned to it have been passed.

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- (2) For graded module examinations, the coursework and examinations are assessed with the following grades by the examiner:

Grade Value (German System)	Grade in Words	Grade (American System)	Definition
1.0 / 1.3	sehr gut <i>very good</i>	A / A-	excellent work
1.7 / 2.0 / 2.3	gut <i>good</i>	B + / B / B -	work that is considerably above the average requirements
2.7 / 3.0 / 3.3	befriedigend <i>satisfactory</i>	C + / C / C -	work that corresponds to the average requirements
3.7 / 4.0	ausreichend <i>pass</i>	D + / D	work that fulfills the minimum requirements despite faults
5.0	nicht ausreichend <i>fail</i>	F	work that does not fulfill the minimum requirements due to serious faults

- (3) If a graded module examination is only made up of one coursework assignment or examination, then the module grade corresponds to the grade of the coursework or examination according to Sec. 18(2). The module examination is passed if the module grade is at least “pass” (4.0).
- (4) If a graded module examination is made up of more than one coursework assignment and/or examination, then the module grade is calculated as the weighted average of the grades from the coursework and/or examinations according to the module catalog. For this calculation, the weighting factors stated in the module catalog are used. The result is rounded mathematically to one decimal place. Results worse than 4.0 are always rounded down to 5.0 (“fail”). The module grade is then calculated using the following table:

Calculated Grade	Module Grade	Grade in Words
to 1.1	1.0	“sehr gut” / “very good”
1.2 - 1.5	1.3	“sehr gut” / “very good”
1.6 - 1.8	1.7	“gut” / “good”
1.9 - 2.1	2.0	“gut” / “good”
2.2 - 2.5	2.3	“gut” / “good”
2.6 - 2.8	2.7	“befriedigend” / “satisfactory”
2.9 - 3.1	3.0	“befriedigend” / “satisfactory”
3.2 - 3.5	3.3	“befriedigend” / “satisfactory”
3.6 - 3.8	3.7	“ausreichend” / “pass”
3.9 - 4.0	4.0	“ausreichend” / “pass”
4.1 and lower	5.0	“nicht ausreichend” / “fail”

The module examination is considered to have been passed when each of the coursework assignments and/or examinations assigned to it has been assessed with at least the grade “pass” (4.0).

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### **Section 19 Admission to Master's Thesis, Allocation of Topic**

- (1) Only those who have fulfilled the requirements in Sec. 14(1) may be admitted to the Master's thesis.
- (2) The topic of the Master's thesis is set by the supervisor according to Sec. 20(3). The student is to be given the opportunity to make suggestions for the topic. Upon request, the chair of the examination committee ensures that the person being examined receives a topic at the latest within one month. The topic of the Master's thesis is to be taken from one of the topic areas in the degree program.
- (3) If the admission requirements according to Sec. 19(1 and 2) are fulfilled, the Master's thesis is considered to have been assigned when the topic is set. The person being examined must notify the Examinations Office of the thesis topic and date it was set (register the thesis) so that these are recorded. The information must be confirmed by the supervisor. The Master's thesis must be registered with the University of Hohenheim's Examinations Office.
- (4) If the Master's thesis is not registered at the latest at the beginning of the 7th semester, the Master's thesis is considered to have been assessed with "fail" (5.0) unless the reason for missing the deadline is not the fault of the person being examined. In this case, the thesis must be registered immediately after the reason for missing the deadline no longer exists - the deadline for registration will be set by the examination committee.
- (5) If the admission requirements are not fulfilled, the request to be admitted to the Master's thesis will be denied. A rejection of the request will be sent in writing to the person being examined.

### **Section 20 Master's Thesis**

- (1) The Master's thesis consists of a written part (Master's thesis) and an oral part (defense). The Master's thesis is intended to show that students are capable of working on a narrowly defined topic from the department in which the thesis is written using scientific methods within a set deadline and presenting the results. 30 credits are given for the Master's thesis.
- (2) The Master's thesis can also be permitted in the form of group work as long as the individual contributions that are to be assessed can be clearly defined and assessed based on sections, page numbers, or other objective criteria and as long as the requirements in Sec. 20(1) are fulfilled.
- (3) The Master's thesis must be selected and supervised by professors, university or private lecturers, tenure-track professors, or research associates from the University of Hohenheim with the right to examine.
- (4) The Master's thesis may also be selected and supervised by persons not belonging to the University of Hohenheim. The requirement is that this person has a degree that is at least equivalent to the degree for which the thesis is being written. The topic must be chosen with the approval of a professor, university or private lecturer, tenure-track professor, or research associate from the University of Hohenheim with the right to examine according to Sec. 52(1) sentence 6 phrase 2 of the State Higher Education Act (LHG). The specific regulations for the double degree programs in the particular part of these examination regulations may set down additional provisions.
- (5) The 6-month time period for working on the thesis starts with the date on which the topic is set according to Sec. 19(3). The topic, task, and scope of the Master's thesis are to be limited by the supervisor such that the work can be done in a 6-month time period. In justified exceptional cases, for example with experimental work, upon request the examination committee can extend the deadline by a maximum of three months for objective reasons with the approval of the supervisor. The request must be received by the Examinations Office no later than two weeks before the deadline, and the supervisor must approve of the extension. If the student becomes ill or if there are extenuating personal reasons, the responsible examination committee may extend the deadline proportionately to the duration of the illness or the time in which the student could not work on the thesis or, in particular for long illnesses or issues, may permit the student to withdraw from the thesis according to Sec. 22. Reasons for an extension of the deadline according to Sec. 20 sentence 6 must be reported to the examination committee immediately with documentation. In the case of illness, a medical certificate is required; in cases of doubt, the examination committee may require that the medical certificate be issued by a doctor the committee selects.
- (6) The topic of the Master's thesis may only be returned once for objective reasons and only within the first two months of the time period for working on the thesis.
- (7) The student has the right to receive a new topic within four weeks according to Sec. 19(2).
- (8) The Master's thesis may be written in German or English as long as the specific degree program provisions in these examination regulations do not state otherwise. Upon request, the responsible examination committee may permit a student to write the thesis in another language with the approval of the supervisor.

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## **Section 21 Submitting, Grading, and Repeating the Master's Thesis**

- (1) Two copies of the Master's thesis must be submitted to the Examinations Office by the deadline with permanent binding (no ring binders). In addition, an identical copy of the Master's thesis must be submitted to the Examinations Office on an electronic storage medium (CD/DVD) for purposes of review. When submitting the Master's thesis, the students must declare in writing that they wrote the paper/thesis independently and used no other sources or aids than those given and marked the passages taken from other works word-for-word or paraphrased. In addition, they must declare that the digital document they submitted is without exception identical to the printed version in content and wording and that they are aware that the electronic version can be checked for plagiarism by software analysis. The specific regulations for the double degree programs in the particular part of these examination regulations may set down additional formal requirements. The date of submission must be recorded.
- (2) If the thesis is not submitted by the deadline with the correct formalities, the thesis will be evaluated with the grade "fail" (5.0) unless the person being examined is not responsible for the reason the deadline was missed.
- (3) The Master's thesis is to be graded immediately and must be graded at the latest four weeks after submission. The Master's thesis is considered to have been passed if it has been graded by both examiners with at least the grade "pass" (4.0). The grade for the written thesis is calculated using the mathematical average of both grades. The result is rounded mathematically to one decimal place. Results worse than 4.0 are always rounded down to 5.0 ("fail"). If the grades from the two examiners deviate by more than one grade, then the examination committee is to appoint a third examiner who determines the grade based on the suggestions of the first and second examiner.
- (4) A Master's thesis that is graded with "fail" (5.0) or is considered to have been failed may be repeated one time with a new topic. It is not possible to repeat the thesis a second time. The Master's thesis must be registered to be repeated at the latest six weeks after the results of the first attempt are announced. The topic must be approved by the examination committee. If the deadline is missed, the right of admission to an examination is lost unless the student is not at fault for the reason the deadline was missed.
- (5) Returning the new topic for the Master's thesis according to Sec. 20(5) is only permitted if the person being examined did not return the topic of the thesis during the first attempt at the Master's thesis.
- (6) If the Master's thesis was graded with at least "pass" (4.0), the person being examined must defend the key theses, findings, and methods of the thesis to the examiners according to Sec. 7 within three months after notification that the thesis was passed. The person being examined has a right to a defense date within the first three weeks after the thesis grade has been announced. If the defense does not take place within three months, the defense will be evaluated with the grade "fail" (5.0) unless the person being examined is not responsible for the reason the deadline was missed. If the person being examined was not responsible for the reason, the defense must take place immediately after the reason for missing the deadline no longer exists on a date set by the examiner.
- (7) The defense is to last a minimum of 30 minutes and maximum of 45 minutes. The examiners set the date. The examiners agree on the grade together. The result of the presentation is to be announced to the student immediately after the presentation.
- (8) A defense does not take place if the written Master's thesis was evaluated with "fail" (5.0). A defense that is graded with "fail" (5.0) or is considered to have been failed may be repeated one time without needing to repeat the thesis. The defense must be repeated within two months after the results have been announced.
- (9) The Master's thesis has been passed if the written Master's thesis and the oral presentation (defense) have each been evaluated with at least the grade "pass" (4.0). The overall grade for the Master's thesis is calculated from the average of the grades for the written thesis and the defense, whereby the grade for the written thesis is weighted with a factor of three and the grade for the defense with a factor of one.
- (10) Depending on the space in the room, an audience may be permitted unless the person being examined objects. However, the audience may not listen to the consultation about the grade or the announcement of the grade to the person being examined.

## **Section 22 Unexcused Absence, Withdrawal, Cheating, Disturbing Examination Procedures**

- (1) An examination is evaluated with "fail" (5.0) if the person to be examined misses a binding examination date without a valid reason, if the person misses the deadline for repeating the examination according to Sec. 23(5) sentence 1, or if the person withdraws from the examination

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- after starting it without a valid reason. The same applies if a written examination is not completed by the set deadline.
- (2) The reason claimed for the absence or withdrawal must immediately (for missed examinations at the latest 7 days after the examination) be reported to the responsible examination committee with proof. If the person to be examined or a child or close relative for which the person provides care is ill, a medical certificate is required; in cases of doubt, the examination committee may require that the medical certificate be issued by a doctor the committee selects. The medical certificate must be obtained immediately, typically on the day of the examination.
  - (3) If the reason is recognized as valid, the affected examination is considered not to have been taken and is to be taken on the next possible examination date. The Examinations Office will automatically register the student for the next possible examination date.
  - (4) If a module examination is made up of several examination components, it is only possible to withdraw from the entire module examination if the requirements according to Sec. 22(2) are fulfilled for each individual component of the module examination.
  - (5) If the person being examined attempts to influence the results of their coursework or examination including the Master's thesis by cheating or using prohibited aids, then the affected coursework assignment, examination, or Master's thesis is evaluated with "fail" (5.0). Cheating also includes copying content from the internet or other works or publications word-for-word without citing the source and marking it as a citation (plagiarism).
  - (6) Students who disturb proper examination procedures can be excluded from continuing the coursework or examination by the examiner or exam supervisor; in this case, the affected coursework assignment or examination is evaluated with "fail" (5.0).
  - (7) In serious or repeated cases of Sec. 22(5 and 6), the responsible examination committee can exclude the person being examined from completing any more coursework and examinations in the affected degree program. In addition, Sec. 62(3) sentence 1 no. 4 of the State Higher Education Act (LHG) applies.
  - (8) Within a period of one month, the student can request the decisions made by the examination committee according to Sec. 23(5 and 6) be reviewed. If the examination committee decides against the student, the student must be informed immediately in writing. The decisions are to be justified and information on rights to appeal must be included.

### **Section 23 Repeating Coursework and Examinations**

- (1) Coursework and examinations that have been passed may not be retaken.
- (2) Examinations that are evaluated with "fail" (5.0) or are considered to have been failed may be re-taken twice.
- (3) There is only a right to repeat the examination in the examination periods that correspond to the semester in which the module is offered.
- (4) The examination must be re-taken on the next possible date. Students who fail an examination are automatically registered for the re-take examination on the next possible date by the Examinations Office.
- (5) Examinations taken for coursework may be repeated an unlimited number of times if they are failed. Examinations taken for coursework that are passed may not be repeated.

### **Section 24 Failing the Final Attempt at a Module Examination**

A module examination that includes one or more examination components is definitively failed if at least one of the examination components assigned to it is failed or considered to have been failed in the final attempt.

### **Section 25 Failing the Final Attempt at the Master's Examination**

- (1) The Master's examination is definitively failed if
  - a) a module examination is definitively failed according to Sec. 24,
  - b) the examinations for all modules have not been passed by the end of the second examination period of the seventh semester,
  - c) the second attempt at the Master's thesis is failed or considered to have been failed,
  - d) the right of admission to an examination has been lost due to missing a deadline.
- (2) If the Master's examination is definitively failed, admission to the affected degree program is revoked.
- (3) Students who definitively fail their Master's examination receive written notification of this with information on rights to appeal. Upon request, the student is issued a written certification that includes the completed module examinations with grades and the module examinations that are still missing for the Master of Science examination and shows that the Master's examination was definitively failed or that the right of admission to an examination was lost.

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## Section 26 Passing and Overall Grade of Master's Examination

- (1) The Master's examination has been passed when all module examinations in the degree program including the Master's thesis have been passed with at least the grade "pass" (4.0), the required minimum number of credits in compulsory and semi-elective modules has been completed, and a total of at least 120 ECTS credits have been obtained.
- (2) The overall grade for the Master's examination is calculated with the weighted average of all module grades according to the specific degree program provisions in these examination regulations including the Master's thesis grade; ungraded module examinations are not considered when calculating the overall grade for the Master's examination. The module grades and grade of the Master's thesis are weighted according to the credits assigned to them if the specific degree program provisions in these examination regulations do not state otherwise. When calculating the overall grade of the Master's examination, only the first decimal place is considered. All other decimal places are ignored without rounding. Any additional modules completed are not considered when calculating the overall grade for the Master's examination.
- (3) If the number of credits obtained in the compulsory, semi-elective, and elective modules exceeds the required 120 credits, the overall grade is calculated using the module grades from all of the compulsory, semi-elective, and elective modules completed until the end of studies.
- (4) The overall grade of the Master's examination is assigned according to the following table:

Grade (German System)	Value	Grade in Words
1.0 - 1.5		sehr gut / <i>very good</i>
1.6 - 2.5		gut / <i>good</i>
2.6 - 3.5		befriedigend / <i>satisfactory</i>
3.6 - 4.0		ausreichend / <i>pass</i>

## Section 27 Transcript of Records, Diploma Supplement, Degree Certificate

- (1) The student is issued a transcript for the passed Master's examination within four weeks after passing the final module examination. The transcript contains the name of the degree program, if applicable the name of the selected specialization, the overall grade for the Master's examination, the modules taken in the course of the Master's program including the grades received and number of credits, the topic and grade of the Master's thesis, and if applicable, upon request the additional modules with the names and module grades. The specific degree program provisions are to be observed. The transcript includes the date of the last module examination (for recognized work the date of recognition, for the Master's thesis the date on which the thesis was submitted) and is to be signed by the chair of the responsible examination committee.
- (2) In degree programs in which the language of instruction and examination is German, the transcript and degree certificate are issued in German with an English translation. In degree programs in which the language of instruction and examination is English, the transcript and degree certificate are issued in English.
- (3) An ECTS Grading Table (as described in the ECTS Users' Guide from 2009) is included with the transcript that shows the statistical distribution of the overall grades in the form of a standard table. The basis for calculating the ECTS Grading Table is all overall grades for the passed Master's examination in the respective Master's program within the two academic years before the transcript was issued.
- (4) A diploma supplement in English is included with the transcript according to the European Diploma Supplement Model. The date on the diploma supplement is the date of the final module examination and is signed by the chair of the responsible examination committee.
- (5) At the same time as they receive the transcript, graduates receive the Master's degree certificate with the same date as the transcript. The degree certificate certifies that the academic degree "Master of Science" is awarded. The Master's degree certificate is signed by the Dean and includes the University of Hohenheim's seal.

## Section 28 Protective Periods

- (1) Upon a student's request, the protective periods according to Sec. 3(1) and Sec. 6(1) of the Maternity Protection Act (Mutterschutzgesetz, MuSchG) in the respectively valid version are to be considered. The request should include the required documentation. Maternity leave periods



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- interrupt all deadlines and periods of time in these examination regulations. The duration of the maternity leave is not included when calculating periods of time or deadlines. The time for working on a Master's thesis cannot be interrupted by maternity leave. Instead, upon request the student is permitted to withdraw according to Sec. 22. After the maternity leave, a new topic is assigned.
- (2) The same applies to requests for recognition of periods of parental leave according to Sec. 15(1-3) of the Federal Act on Parental Allowance and Parental Leave (Bundeselterngeld- und Elternzeitgesetz, BEEG) in the respectively valid version. At the latest four weeks before the time when the candidate wants to start parental leave, the examination committee must be informed in writing with the necessary documentation about the period for which parental leave will be taken. The examination committee must review whether the legal requirements are fulfilled that would require an employer to grant parental leave and will inform the student of the results of the review and, if applicable, the new examination times immediately. The time for working on a Master's thesis cannot be interrupted by parental leave. Instead, upon request the student is permitted to withdraw according to Sec. 22. After the end of the parental leave, the candidate receives a new topic.
  - (3) Upon request, periods in which students have family obligations are to be considered for setting deadlines. Requests are to be made informally to the Examinations Office, which sends them to the examination committee. The request should include the required documentation.
  - (4) Activity as an elected member of legally required committees or University or Student Services committees required by the statutes for at least one year can be considered for up to one academic year when calculating the deadlines for examinations; the decision on this is made by the President upon the suggestion of the responsible examination committee. Sec. 28(4) sentence 1 applies accordingly for activities in committees of the student body.

### **Section 29 Disadvantage Compensation for Examination Candidates with Physical Disabilities**

If a student submits a medical certificate stating that he/she is not able to complete coursework and examinations in part or in whole in the prescribed form because of a long-term or constant physical disability, the responsible examination committee may permit the coursework and examinations to be completed in a longer period of time, with appropriate aids, or in a different form.

### **Section 30 Revocation of Academic Degree**

- (1) If the person being examined cheated in a module examination or the Master's thesis, and if this fact is not discovered until after the transcript of records has been issued, then the grades of the module examinations in which the student cheated can be corrected. If appropriate, the module examination can be declared to have the grade "fail" (5.0) and the Master's examination can be declared to have been failed.
- (2) If the requirements for admission to an examination were not fulfilled without the person being examined intentionally deceiving about this fact, and if this is not discovered until after the transcript of records is issued, passing the examination remedies this problem. If the student intentionally deceived to gain admission to the examination, the module examination can be declared to have the grade "fail" (5.0) and the Master's examination can be declared to have been failed.
- (3) Before a decision is made, the student is to be given an opportunity to make a statement.
- (4) The incorrect transcript of records is to be recalled and, if appropriate, a new transcript of records is to be issued. Together with the incorrect transcript of records, the Master's degree certificate is also to be recalled if the Master's examination is declared to have been failed due to cheating.
- (5) A decision based on Sec. 30(1) and Sec. 30(2) sentence 2 is not possible after 5 years from the date the transcript of records was issued.
- (6) The process for revoking the academic degree follows the respective legal provisions.

### **Section 31 Right of Inspection**

Within one year after completing the examination process, the person who was examined may inspect the written examinations, the reviews of the written examinations, and the examination minutes by request in an appropriate form to the examination committee. Sec. 29 of the State Administrative Procedure Act (Landesverwaltungsverfahrensgesetz) remains unaffected. The chair of the examination committee determines the time and place of the inspection.

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## FIRST PARTICULAR PART

### I. Specific Degree Program Provisions for the Master's Program "Agricultural Sciences" with the Exception of the Specialization in Agricultural Economics

#### Section 32 Subject Areas

- (1) The degree program may be done without a specialization or with one of the following four specializations that are regulated in this section:
  - a) Agricultural Engineering
  - b) Soil Sciences
  - c) Plant Production Systems
  - d) Animal Sciences
- (2) Admission is granted to only one of the specializations listed in Sec. 32(1) according to the respectively valid version of the admission regulations. In addition, the specialization "Agricultural Economics" is part of this degree program. It is covered in part II.

#### Section 33 Scope of the Module Examinations

- (1) The modules offered are divided into the compulsory modules for the four possible specializations, semi-elective modules, and elective modules. The language of instruction and examination is generally German. Semi-elective and elective modules can also be held in English with the approval of the Faculty of Agricultural Sciences if there are enough modules available to be able to study the program entirely in German.
- (2) In the specialization "Agricultural Engineering", the six compulsory modules totaling 36 credits are:
  - a) Energietechnik, 6 credits (German)
  - b) Nacherntetechnologie, 6 credits (German)
  - c) Technische Verfahren in der Nutztierhaltung, 6 credits (German)
  - d) Statik, Festigkeitslehre und Werkstoffkunde, 6 credits (German)
  - e) Funktion und Management von Landmaschinen in der Pflanzenproduktion, 6 credits (German)
  - f) Mess- und Regelungstechnik, 6 credits (German).

Semi-elective modules totaling at least 24 credits are to be chosen from the lists in **Annexes 1 and 3** or from the lists of compulsory modules in the other specializations or the degree program Agribusiness or from the modules in the specialization Agricultural Economics (see part II).

The elective modules can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences.

Modules according to Sec. 35(3) may not be chosen as semi-elective or elective modules. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

With the compulsory, semi-elective, and elective modules, a total of at least 90 credits must be obtained.

- (3) In the specialization "Soil Science", the five compulsory modules totaling 31.5 credits are:
  - a) Bodenbiologie für Fortgeschrittene, 6 credits (German)
  - b) Bodenchemische Analytik, 6 credits (German)
  - c) Boden- und Umweltphysik für Fortgeschrittene, 6 credits (German)
  - d) Integriertes bodenwissenschaftliches Projekt für Fortgeschrittene, 7.5 credits (German)
  - e) Stoffdynamik in Agrarökosystemen, 6 credits (German).

Semi-elective modules totaling at least 28.5 credits are to be chosen from the lists in **Annexes 1 and 3** or from the lists of compulsory modules in the other specializations or the degree program Agribusiness or from the modules in the specialization Agricultural Economics (see part II).

The elective modules can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences.

Semi-elective modules according to Sec. 35(3) may not be chosen as semi-elective or elective modules. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

With the compulsory, semi-elective, and elective modules, a total of at least 90 credits must be obtained.

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- (4) In the specialization “Plant Production Systems”, the three compulsory modules totaling 18 credits are:
- Ackerbausysteme, 6 credits (German)
  - Produktqualität und Qualität der Produktion pflanzlicher Rohstoffe, 6 credits (German)
  - Stoffdynamik in Agrarökosystemen, 6 credits (German).
- Semi-elective modules totaling at least 42 credits are to be chosen from the lists in **Annexes 1 and 3** or from the lists of compulsory modules in the other specializations or the degree program Agribusiness or from the modules in the specialization Agricultural Economics (see part II). The elective modules can be chosen from any of the modules offered in the Master’s degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Modules according to Sec. 35(3) may not be chosen as semi-elective or elective modules. Upon the student’s request and with the approval of the mentor, the examination committee may also permit modules from other Master’s degree programs at the University of Hohenheim to be chosen as elective modules. With the compulsory, semi-elective, and elective modules, a total of at least 90 credits must be obtained.
- (5) In the specialization “Animal Sciences”, the five compulsory modules totaling 30 credits are:
- Ernährungsphysiologie, 6 credits (German)
  - Tiergesundheit, 6 credits (German)
  - Verhaltensphysiologie mit Tierschutz, 6 credits (German)
  - Genomische Methoden in der Tierzucht, 6 credits (German)
  - Tierhaltung und Tierhaltungstechnik, 6 credits (German).
- Three profiles may be chosen in the specialization “Animal Sciences” (see profiles in Annex 1). For the profile, at least 4 semi-elective modules totaling at least 24 credits must be chosen from one of the Animal Sciences profiles in Annex 1. If these modules are completed successfully, the profile is listed in the transcript of records. It is possible to study without having a profile in the transcript of records; for this, modules totaling at least 24 credits are to be chosen from the lists in Annexes 1 and 3 or from the lists of compulsory modules in the other specializations or the degree program Agribusiness or from the modules in the specialization Agricultural Economics (see part II). The elective modules can be chosen from any of the modules offered in the Master’s degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Up to two elective modules can be chosen from the Master’s modules in the Faculty of Natural Sciences without submitting a special request. Modules according to Sec. 35(3) may not be chosen as semi-elective or elective modules. Upon the student’s request and with the approval of the mentor, the examination committee may also permit modules from other Master’s degree programs at the University of Hohenheim to be chosen as elective modules. With the compulsory, semi-elective, and elective modules, a total of at least 90 credits must be obtained.
- (6) If none of the four specializations are chosen, semi-elective modules totaling at least 60 credits are to be chosen from the lists in **Annexes 1 and 3** or from the lists of compulsory modules in the other specializations or the degree program Agribusiness or from the modules in the specialization Agricultural Economics (see part II). The elective modules can be chosen from any of the modules offered in the Master’s degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Modules according to Sec. 35(3) may not be chosen as semi-elective or elective modules. Upon the student’s request and with the approval of the mentor, the examination committee may also permit modules from other Master’s degree programs at the University of Hohenheim to be chosen as elective modules. With the semi-elective and elective modules, a total of at least 90 credits must be obtained.
- (7) With a request submitted to the examination committee, students may de-select a specialization.
- (8) Compulsory modules and semi-elective modules for which an elective module examination was already completed during a Bachelor’s degree are to be replaced by a corresponding number of credits from the semi-elective modules in **Annex 1**. Elective modules from the module catalog of the Master’s programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor’s program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master’s program.
- (9) The Faculty of Agricultural Sciences may change the list in **Annex 1**.

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## II. Specific Degree Program Provisions for the Specialization “Agricultural Economics” in the Master’s Degree Program “Agricultural Sciences”

### Section 34 Scope of the Module Examinations

- (1) The modules offered are divided into compulsory modules, semi-elective modules, and elective modules. The language of instruction and examination is English.
- (2) The five compulsory modules totaling 30 credits are:
  - a) Agricultural and Food Policy, 6 credits (English)
  - b) Applied Econometrics, 6 credits (English)
  - c) Environmental and Resource Economics, 6 credits (English)
  - d) Farm System Modelling, 6 credits (English)
  - e) Microeconomics, 6 credits, (English)
- (3) Five semi-elective modules totaling 30 credits must be chosen from the list in **Annex 2**. The Faculty of Agricultural Sciences may change the list.
- (4) The elective modules totaling at least 30 credits can be chosen from any of the modules offered in the Master’s degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Upon the student’s request and with the approval of the mentor, the examination committee may also permit modules totaling up to 30 credits from other Master’s degree programs at the University of Hohenheim to be chosen as elective modules.
- (5) Compulsory modules and semi-elective modules for which an elective module examination was already completed during a Bachelor’s degree are to be replaced by a corresponding number of credits from the semi-elective modules in **Annex 2**.

This is a courtesy translation. Only the German version is legally binding. If there are any differences in the wording, interpretation, or meaning of the German and English versions, the German version shall prevail.

### III. Specific Degree Program Provisions for the Master's Program "Agribusiness"

#### Section 35 Scope of the Module Examinations

- (1) The modules offered are divided into compulsory modules, semi-elective modules that depend on previous education, and elective modules. The language of instruction and examination is generally German. Semi-elective modules can also be held in English with the approval of the Faculty of Agricultural Sciences
- (2) The following seven modules (42 credits) are compulsory modules:
  - a) Bewertungs- und Steuerlehre, 6 credits (German)
  - b) Investition, Finanzierung und dynamische Entscheidungsmodelle, 6 credits (German)
  - c) Unternehmensführung im Agribusiness, 6 credits (German)
  - d) Ökonomik der Agrar- und Ernährungswirtschaft I, 6 credits (German)
  - e) Ökonomik der Agrar- und Ernährungswirtschaft II, 6 credits (German)
  - f) Projektmodul Agribusiness, 6 credits (German)
  - g) Qualitäts- und Umweltmanagement in der Agrar- und Ernährungswirtschaft, 6 credits (German)
- (3) Two modules / 12 credits must be selected from the following lists of semi-elective modules that depend on each student's previous education.

For students with an agricultural or natural science Bachelor's degree or an equivalent degree, two of the following six modules from business and economic sciences must be chosen:

  - a) E-Business, 6 credits (German)
  - b) Multinational Corporations, 6 credits (German)
  - c) Integratives Wertschöpfungsmanagement, 6 credits (German)
  - d) Controlling, 6 credits (German)
  - e) Strukturen der Betriebswirtschaftslehre, 6 credits (German)
  - f) Marketing, 6 credits (German)

For students with a business or economic science Bachelor's degree or an equivalent degree, two of the following six modules from agricultural sciences must be chosen:

- a) Grundlagen der Agrartechnik - Landtechnik und Pflanzenproduktion, 6 credits (German)
  - b) Grundlagen der Agrartechnik - Tierhaltung, Sonderkulturen und Arbeitswissenschaften, 6 credits (German)
  - c) Grundlagen der Pflanzenwissenschaften, 6 credits (German)
  - d) Grundlagen Pflanzenernährung, Pflanzenzüchtung, Phytomedizin und Sonderkulturen, 6 credits (German)
  - e) Einführung in die Tierhaltung und Tiergenetik, 6 credits (German)
  - f) Einführung in die Tierernährung und Tiergesundheit, 6 credits (German)
- (4) Three semi-elective modules / 18 credits are to be chosen from the list in **Annex 3** of these examination regulations. The Faculty of Agricultural Sciences may change the list.
  - (5) Three elective modules / at least 18 credits can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

With the compulsory, semi-elective, and elective modules, a total of at least 90 credits must be obtained.
  - (6) Compulsory modules and semi-elective modules for which an elective module examination was already completed during a Bachelor's degree are to be replaced by a corresponding number of credits from the semi-elective modules in **Annex 3**. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

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#### **IV Specific Degree Program Provisions for the Master's Degree Program "Agricultural Sciences in the Tropics and Subtropics"**

##### **Section 36 Scope of the Module Examinations**

- (1) The modules offered are divided into compulsory modules and elective modules. The language of instruction and examination is English.
- (2) The eight compulsory modules totaling 49.5 credits are:
  - a) Crop Production Systems 6 credits (English)
  - b) Ecology and Agroecosystems, 6 credits (English)
  - c) Farm and Project Evaluation, 6 credits (English)
  - d) Interdisciplinary Practical Science Training, 7.5 credits (English)
  - e) Livestock Production Systems and Development, 6 credits (English)
  - f) Methods in Interdisciplinary Collaboration, 6 credits (English)
  - g) Natural Resource Use and Conservation in the Tropics and Subtropics, 6 credits (English)
  - h) Quantitative Methods in Biosciences, 6 credits (English).
- (3) Elective modules totaling at least 40.5 credits are to be chosen from the list in the curriculum or from the modules of the other Master's degree programs in the Faculty of Agricultural Sciences to build a profile. Up to 15 credits can also be chosen from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules. With the semi-elective and elective modules, a total of at least 90 credits must be obtained.
- (4) Compulsory modules for which an elective module examination was already completed during a Bachelor's degree are to be replaced by a corresponding number of credits from the elective modules in the curriculum. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

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## V. Specific Degree Program Provisions for the Master's Program "Crop Sciences"

### Section 37 Subject Areas and Scope of the Module Examinations

- (1) The degree program is divided into the following two specializations (majors), of which one must be chosen:
  - a) Plant Breeding and Seed Science
  - b) Plant Nutrition and Protection
- (2) Admission is granted to only one of the specializations listed in Sec. 37(1) according to the respectively valid version of the admission regulations. The selected specialization will be noted in the transcript of records and on the degree certificate.
- (3) The modules offered are divided into the compulsory modules for the two possible specializations and elective modules. The language of instruction and examination is English.
- (4) In the specialization "Plant Breeding and Seed Science", the seven compulsory modules totaling 42 credits are:
  - a) Advanced Statistical Methods for Metric and Categorical Data, 6 credits (English),
  - b) Breeding Methodology, 6 credits (English),
  - c) Methods of Scientific Working for Crop Sciences, 6 credits (English),
  - d) Planning of Breeding Programmes, 6 credits (English),
  - e) Population and Quantitative Genetics, 6 credits (English),
  - f) Seed Research, 6 credits (English),
  - g) Selection Theory, 6 credits (English).

To build a profile, the elective modules can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules. With the compulsory and elective modules, a total of at least 90 credits must be obtained.

- (5) In the specialization "Plant Nutrition and Protection", the four compulsory modules totaling 30 credits are:
  - a) From Genes to Transgenic Plants, 6 credits (English),
  - b) Methods of Molecular Biology and Biotechnology, 12 credits (English),
  - c) Methods of Scientific Working for Crop Sciences, 6 credits (English),
  - d) Physiology and Biochemistry of Crops, 6 credits (English).

To build a profile, the elective modules can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules. With the semi-elective and elective modules, a total of at least 90 credits must be obtained.

- (6) Compulsory modules for which an elective module examination was already completed during a Bachelor's degree are to be replaced by a corresponding number of credits from the elective modules in the curriculum. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

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## VI. Specific Degree Program Provisions for the Master's Degree Program "Environmental Protection and Agricultural Food Production"

### Section 38 Scope of the Module Examinations

- (1) The modules offered are divided into compulsory modules, semi-elective modules that depend on previous education, and elective modules. The language of instruction and examination is English.
- (2) The six compulsory modules totaling 37.5 credits are:
  - a) Agricultural Production and Residues, 6 credits (English)
  - b) Economics and Environmental Policy, 6 credits (English)
  - c) Ecotoxicology and Environmental Analytics, 6 credits (English)
  - d) Environmental Modelling, 6 credits (English)
  - e) Microbiological Safety within the Feed and Food Production Chain, 6 credits (English)
  - f) Spatial Data Analysis with GIS, 7.5 credits (English)
- (3) Three semi-elective modules totaling at least 18 credits must be chosen from the list in **Annex 4**. The Faculty of Agricultural Sciences may change the list.
- (4) The elective modules can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

With the semi-elective and elective modules, a total of at least 90 credits must be obtained.
- (5) Compulsory modules, semi-elective modules dependent on previous education, and elective modules for which an elective module examination was already completed during a Bachelor's degree are to be replaced by a corresponding number of credits from the semi-elective modules in **Annex 4**. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.



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## **VII. Specific Degree Program Provisions for the Master's Program in "Environmental Science - Soil, Water and Biodiversity"**

### **Section 39 "Double Degree", Enrollment, Changing Place of Studies**

- (1) The degree program "Environmental Science - Soil, Water and Biodiversity" is a "double degree" program that is carried out by the following partner universities, all of whom are members of the Euroleague for Life Sciences:
  - a) University of Copenhagen (UCPH), Denmark
  - b) Swedish University of Agricultural Sciences (SLU), Sweden
  - c) University of Natural Resources and Applied Life Sciences (BOKU), Austria
  - d) University of Hohenheim (UHOH), Germany
- (2) Students who are enrolled
  - e) at the University of Copenhagen in the Master's program in Environmental Science - Soil, Water and Biodiversity,
  - f) at the Swedish University of Agricultural Sciences in the Master's program in Soil and Water, or
  - g) at the University of Natural Resources and Applied Life Sciences in the Master's program in Environmental Scienceare considered to be enrolled in the degree program "Environmental Science - Soil, Water and Biodiversity" if they entered the University of Hohenheim as the "host university" when enrolling.
- (3) The students are obligated to complete their studies at (at least) two of the partner universities (home and host university) with module examinations totaling at least 30 credits at each of the universities.
- (4) Module examinations completed at other universities are recognized upon request according to Sec. 8 of the General Part of these examination regulations if, of the 90 credits required with module examinations,
  - a) at least 60 credits were completed at the University of Hohenheim or
  - b) at least 30 credits were completed at the University of Hohenheim and the student's first or second supervisor for the Master's thesis is a member of the University of Hohenheim.If the remaining credits were completed in one of the degree programs listed under Sec. 39(2), the students may receive an additional degree certificate and transcript of records of all of the module examinations completed in the degree programs listed in Sec. 39(2) from the partner universities at which they completed module examinations according to those universities' examination regulations (double degree).
- (5) The students complete either the first or the second year of studies in Hohenheim and take courses at one of the partner universities during the other year (second or first, respectively). The Master's thesis is to be carried out at the university at which Package 3 (cf. Sec. 40(4)) was completed.

### **Section 40 Scope of the Module Examinations**

- (1) The module offers are divided into three packages corresponding to the first three subject-related semesters. The language of instruction and examination is English.
- (2) Package 1 is the basic semester package (BSP) totaling 30 credits. It is made up of three compulsory modules totaling 24 credits and one elective module with at least 6 credits. The compulsory modules are:
  - a) Environmental Management in Europe, 15 credits (English)
  - b) Environmental Modelling, 6 credits (English)
  - c) Quantitative Methods in Biosciences, Part one: Basic Statistics, 3 credits (English)

Equivalent modules are offered in the degree programs listed in Sec. 39(2) at the partner universities that can be recognized upon request under consideration of the regulations according to Sec. 39(4).

An elective module with at least 6 credits is to be chosen from the list in the curriculum or from the modules of the other Master's degree programs in the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

Compulsory and elective modules for which an elective module examination was already completed during a Bachelor's degree are to be replaced by a corresponding number of credits from elective modules.

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- (3) Package 2 is an advanced semester package 1 (ASP 1) that comprises 30 credits in which one of the following specializations must be chosen:

- a) Climate Change
- b) Ecosystems and Biodiversity
- c) Environmental Impacts
- d) Environmental Management
- e) Soil Resources and Land Use.

The compulsory and semi-elective modules within the specializations are listed in **Annex 5** of these examination regulations. The Faculty of Agricultural Sciences may change the list. The compulsory modules are binding for the respective specialization. An elective module with 7.5 or 6 credits may be chosen freely from all Master's modules in the Faculty of Agricultural Sciences or from the modules offered in the Faculty of Agricultural Sciences' doctoral study program. In each specialization, enough of the semi-elective modules must be chosen so that a total of at least 30 credits are obtained in Package 2. The selected specialization will be noted in the transcript of records.

Equivalent specializations and modules are offered in the degree programs listed in Sec. 39(2) at the partner universities that can be recognized upon request under consideration of the regulations according to Sec. 39(4).

- (4) Package 3 is an advanced semester package 2 (ASP 2) that comprises 30 credits and in which one of the following specializations must be chosen:

- Climate Change
- Ecosystems and Biodiversity
- Environmental Impacts
- Environmental Management
- Soil Resources and Land Use

The compulsory modules are binding for the respective specialization. The semi-elective modules within the specializations are listed in **Annex 6** of these examination regulations. The Faculty of Agricultural Sciences may change the list. Enough of the semi-elective modules must be chosen so that, together with the compulsory modules, a total of at least 24 credits are obtained. In addition, 6 credits may be chosen freely from all Master's modules in the Faculty of Agricultural Sciences or from the modules offered in the Faculty of Agricultural Sciences' doctoral study program. The selected specialization will be noted in the transcript of records.

Equivalent specializations and modules are offered in the degree programs listed in Sec. 39(2) at the partner universities that can be recognized upon request under consideration of the regulations according to Sec. 39(4).

- (5) In the Packages 2 and 3, various specializations can be chosen. It is not possible to count modules from Package 2 in Package 3 or vice versa. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules for Packages 2 and 3.

#### **Section 41 Examinations at the Partner Universities**

- (1) The written examination in the module "Environmental Management in Europe (EME)" (15 credits according to Sec. 40(2)) is carried out under supervision on an e-learning platform and takes four hours. The written exam is graded centrally at the University of Copenhagen. This examination is complemented by an exam component made up of a written report on a project done in the context of EME including a web presentation of the results.
- (2) Module examinations in modules that are completed as part of double degree programs at partner universities according to Sec. 39(2) follow the regulations of the respective partner university. This applies in particular to the regulations about registering for the examinations, the examiners and observers, the examination work and components, the duration of the examination, notification of the examination results including notification of failure, possibilities for re-taking the examination, and inspecting the examination documents.
- (3) The grading of module examinations in modules that are completed as part of double degree programs at partner universities according to Sec. 39(2) first follows the regulations of the respective partner university. The grades are then converted into the German system according to Sec. 18 of the General Part of these examination regulations. The conversion table and its explanation can be found in the curriculum.
- (4) If the Master's thesis is carried out at a partner university, the first supervisor should be from the partner university and the second supervisor from the University of Hohenheim.

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- (5) If the Master's thesis is assigned and carried out at the University of Hohenheim, the first supervisor should come from among the people in Sec. 20(3) of the General Part of these examination regulations at the University of Hohenheim. Upon the suggestion of the first supervisor, the examination committee then appoints the second supervisor, who is chosen from among the people in Sec. 20(3) of the General Part of these examination regulations at the partner university where Packages 1 and 2 were completed.
- (6) The students are responsible for ensuring that the examination deadlines in these regulations are met.

#### **Section 42 "Double Degree", Transcript of Records, and Degree Certificate**

- (1) On the degree certificate, there is the sentence "The Faculty of Agricultural Sciences of the University of Hohenheim has conferred upon ... the academic degree Master of Science (M.Sc.) in the Double Degree Master's Program Environmental Science – Soil, Water and Biodiversity" if the partner universities are also issuing a transcript of records and degree certificate for the degree programs listed in Sec. 39(2). If this is not the case, the sentence reads: "The Faculty of Agricultural Sciences of the University of Hohenheim has conferred upon ... the academic degree Master of Science (M.Sc.) in the Master's Program Environmental Science – Soil, Water and Biodiversity".
- (2) On the transcript of records, there is the sentence "... has successfully completed all requirements for the double degree Master's Program in Environmental Science – Soil, Water and Biodiversity with the total grade ..." if the partner universities are also issuing a transcript of records and degree certificate for the degree programs listed in Sec. 39(2). If this is not the case, the sentence reads: "... has successfully completed all requirements for the Master's Program in Environmental Science – Soil, Water and Biodiversity with the total grade ...". In the first case, the partner university is named at which the modules and, if applicable, the Master's thesis were completed and from whom a transcript of records and degree certificate will also be issued. The module examinations completed at the partner university are marked as such on the transcript of records.

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## VIII. Specific Degree Program Provisions for the Master's Program "Landscape Ecology"

### Section 43 Scope of the Module Examinations

- (1) The modules offered are divided into compulsory modules, semi-elective modules, and elective modules. The language of instruction and examination is English.
- (2) The five compulsory modules totaling 37.5 credits are:
  - a) Community and Evolutionary Ecology, 7.5 credits (English)
  - b) Conservation Biology, 7.5 credits (English)
  - c) Intensive Course Landscape Ecology, 7.5 credits (English)
  - d) Landscape Ecology, 7.5 credits (English)
  - e) Plant Ecology, 7.5 credits (English)
- (3) Three semi-elective modules / 22.5 credits are to be chosen from the list in **Annex 7** of these examination regulations. The Faculty of Agricultural Sciences may change the list.
- (4) The elective modules totaling at least 30 credits can be chosen from any of the modules offered in the Master's degree programs in the Faculties of Agricultural Sciences and Natural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules. With the compulsory, semi-elective, and elective modules, a total of at least 90 credits must be obtained.
- (5) Compulsory modules and semi-elective modules for which an elective module examination was already completed during a Bachelor's degree are to be replaced by a corresponding number of semi-elective modules in **Annex 7**. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

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## **IX. Specific Degree Program Provisions for the Master's Degree Program "Organic Agriculture and Food Systems"**

### **Section 44 "Double Degree", Enrollment, Changing Place of Studies**

- (1) The degree program "Organic Agriculture and Food Systems" is a "double degree" program that is carried out by the following partner universities, all of whom are members of the Euroleague for Life Sciences with the exceptions of Aarhus University and ISARA-Lyon:
  - a) Warsaw University of Life Sciences (WULS), Poland
  - b) University of Natural Resources and Applied Life Sciences (BOKU), Austria
  - c) Aarhus University, Faculty of Agricultural Sciences (AU-DJF), Denmark
  - d) University of Hohenheim (UHOH), Germany
  - e) or at ISARA-Lyon in the Master's program "Agroecology".
- (2) Students who are enrolled
  - a) at the University of Natural Resources and Applied Life Sciences in the Master's program "Organic Agriculture Systems and Agroecology" or
  - b) at the Warsaw University of Life Sciences in the Master's program "Organic Agriculture Systems and Agroecology"
  - c) or the Aarhus University in the Master's program "Agrobiology with specialisation in Organic Agriculture"are considered to be enrolled in the degree program "Organic Agriculture and Food Systems" at the University of Hohenheim if they entered the University of Hohenheim as the "host university" when enrolling.
- (3) The degree program includes a change in place of study after the first year so that the students can complete their studies at two of the partner universities (the home and host university).
- (4) Module examinations completed at other universities are recognized upon request according to Sec. 8 of the General Part of these examination regulations if, of the 90 credits required with module examinations,
  - a) at least 60 credits were completed at the University of Hohenheim or
  - b) at least 30 credits were completed at the University of Hohenheim and the student's first or second supervisor for the Master's thesis is a member of the University of Hohenheim.If the remaining credits were completed at one of the universities listed under Sec. 44(1), the students may receive an additional degree certificate and transcript of records of all of the module examinations completed in the degree programs listed in Sec. 39(2) from the partner universities at which they completed module examinations according to those universities' examination regulations (double degree).
- (5) The students should typically complete either the first (UHOH "home university") or the second (UHOH "host university") year of studies in Hohenheim and take courses at one of the partner universities during the other year (second or first, respectively). The Master's thesis should not be completed at the university at which studies are started. The Master's thesis is typically carried out at the university at which the specialization (cf. Sec. 45(5)) was completed.

### **Section 45 Scope of the Module Examinations**

- (1) The modules are divided into a basic package and a specialization package. The language of instruction and examination is English.
- (2) The basic package includes 60 credits. It is made up of a common introductory module "Principles of Organic Food Systems", which is 6 credits including e-learning, and additional compulsory modules totaling 48 credits as well as elective modules totaling 6 credits. If students want to complete the entire program at the University of Hohenheim, the module "Principles of Organic Food Systems" is replaced by the module "Organic Food Systems and Concepts". If a student changes from a double degree to a single degree or vice versa, these two modules are mutually recognizable.

The compulsory modules at the University of Hohenheim are:

- a) Markets and Marketing of Quality Food, 6 credits (English)
- b) Organic Livestock Farming and Products, 6 credits (English)
- c) Organic Plant Production, 6 credits (English)
- d) Processing and Quality of Organic Food, 6 credits (English)
- e) Project in Organic Agriculture and Food Systems, 12 credits (English)
- f) Global Agrifood Systems: Conventional, Organic and Beyond, 6 credits (English)
- g) Economics and Environmental Policy, 6 credits (English)

The Project in Organic Agriculture and Food Systems takes place over two semesters.

Equivalent modules for the basic packages are offered in the degree programs listed in Sec. 44(2) at the Natural Resources and Life Science (BOKU) and the Aarhus University, Denmark (AU-

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- DJF), and these modules can be recognized upon request under consideration of the regulations according to Sec. 44(4).
- (3) An elective module in the basic package with at least 6 credits must be selected to create a profile from the module catalogs of the Faculty of Agricultural Sciences' Master's degree programs.
  - (4) Compulsory and elective modules for which an elective module examination was already completed during a Bachelor's degree are to be replaced by a corresponding number of credits from elective modules.
  - (5) The specialization package includes 30 credits. The specialization and modules within the specialization are selected from the list in the curriculum. The Faculty of Agricultural Sciences may change the list. Up to 15 of these 30 credits can also be chosen from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Enough of the modules must be chosen so that a total of at least 30 credits are obtained. The selected specialization will be noted in the transcript of records upon request. Equivalent specializations and modules are offered in the degree programs listed in Sec. 44(2) at the WULS, BOKU, AU-DJF, and ISARA that can be recognized upon request under consideration of the regulations according to Sec. 44(4).
  - (6) Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules for the specialization package.

#### **Section 46 Examinations at the Partner Universities**

- (1) The written examination in the introductory module "Principles of Organic Food Systems" (6 credits according to Sec. 50(2)) is carried out at the individual "home universities" by the program coordinator there according to the respective examination regulations.
- (2) Module examinations at partner universities follow the regulations of the respective partner university. This applies in particular to the regulations about registering for the examinations, the examiners and observers, the examination work and components, the duration of the examination, notification of the examination results including notification of failure, possibilities for re-taking the examination, and inspecting the examination documents.
- (3) The grading of module examinations in modules at partner universities first follows the regulations of the respective partner university. The grades are then converted into the German system according to Sec. 18 of the General Part of these examination regulations. The conversion table and its explanation can be found in the curriculum.
- (4) If the Master's thesis is carried out at a partner university, the first supervisor should be from the partner university and the second supervisor from the University of Hohenheim. If the Master's thesis is assigned and carried out at the University of Hohenheim, the first supervisor should come from among the people in Sec. 20(3) of the General Part of these examination regulations at the University of Hohenheim. Upon the suggestion of the first supervisor, the examination committee then appoints the second supervisor, who is chosen from among the people in Sec. 20(3) of the General Part of these examination regulations.
- (5) The students are responsible for ensuring that the examination deadlines in these regulations are met.

#### **Section 47 Transcript of Records and Degree Certificate**

- (1) On the degree certificate, there is the sentence "The Faculty of Agricultural Sciences of the University of Hohenheim has conferred upon ... the academic degree Master of Science (M.Sc.) in the Double Degree Master's Program Organic Agriculture and Food Systems" if the partner universities are also issuing a transcript of records and degree certificate for the degree programs listed in Sec. 44(2). If this is not the case, the sentence reads: "The Faculty of Agricultural Sciences of the University of Hohenheim has conferred upon ... the academic degree Master of Science (M.Sc.) in the Master's Program Organic Agriculture and Food Systems".
- (2) On the transcript of records, there is the sentence "... has successfully completed all requirements for the double degree Master's Program in Organic Agriculture and Food Systems with the total grade ..." if the partner universities are also issuing a transcript of records and degree certificate for the degree programs listed in Sec. 44(2). If this is not the case, the sentence reads: "... has successfully completed all requirements for the Master's Program in Organic Agriculture and Food Systems with the total grade ...". In the first case, the partner university (or partner universities) is named at which the modules and, if applicable, the Master's thesis were completed and from whom a transcript of records and degree certificate will also be issued. The module examinations completed at the partner universities are marked as such on the transcript of records.

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## **X. Specific Degree Program Provisions for the Master's Program "Biobased Products and Bioenergy"**

### **Section 48 Scope of the Module Examinations**

- (1) The modules offered are divided into compulsory modules, semi-elective modules, and elective modules. The language of instruction and examination is generally German. Semi-elective modules can also be held in English with the approval of the Faculty of Agricultural Sciences
- (2) The following six modules (42 credits) are compulsory modules:
  - a) Nachhaltigkeit und Produktionsökologie von rohstoffliefernden Pflanzen, 6 credits (German)
  - b) Projektarbeit Nachwachsende Rohstoffe und Bioenergie, 12 credits (module during semester) or 15 credits (blocked module), (German)
  - c) Basic Operations of a Biorefinery, 6 credits (German)
  - d) Stoffstromanalyse und Life Cycle Assessment, 6 credits (German)
  - e) Technische Verfahren zur Nutzung von nachwachsenden Rohstoffen, 6 credits (German)
  - f) Unternehmensführung im Agribusiness, 6 credits (German)
- (3) Three semi-elective modules totaling at least 18 credits are to be chosen from the list in **Annex 8** of these examination regulations. The Faculty of Agricultural Sciences may change the list.
- (4) The elective modules can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences and up to 15 credits from the modules offered in the doctoral study programs of the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules. With the compulsory, semi-elective, and elective modules, a total of at least 90 credits must be obtained.
- (5) Compulsory modules and semi-elective modules for which an elective module examination was already completed during a Bachelor's degree are to be replaced by a corresponding number of credits from the semi-elective modules in **Annex 8**. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.



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## **SECOND PARTICULAR PART for students who started their studies before the winter semester 2014/15**

### **XI. Specific Degree Program Provisions for the Master's Program "Agricultural Biology"**

#### **Section 49 Specializations**

(1) The degree program is divided into the following three specializations:

- a) Agricultural Biotechnology
- b) Landscape Ecology
- c) Productive Livestock Biology

(2) Admission is granted to only one of the specializations listed in Sec. 49(1) according to the respectively valid version of the admission regulations.

(3) The language of instruction and examination is generally German. Semi-elective and elective modules can also be held in English.

#### **Section 50 Scope of the Module Examinations**

(1) In the specialization "Agricultural Biotechnology", the "Master of Science" examination is comprised of:

- Examinations in the five compulsory modules (36 credits):

- a) Angewandte Mikrobiologie, 6 credits,
- b) Molekularbiologische und biotechnologische Methoden, 12 credits,
- c) Genomische Methoden in den Nutztierwissenschaften, 6 credits
- d) Physiologie und Biochemie, 6 credits,
- e) Biologische Sicherheit und Gentechnikrecht, 6 credits,

- Examinations in three semi-elective modules or at least 18 credits that are chosen from the list in Annex 9,  
and

- Examinations in six elective modules or at least 36 credits chosen from any of the modules offered in the Master's degree programs in the Faculties of Agricultural Sciences and Natural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(2) In the specialization "Landscape Ecology", the "Master of Science" examination for students who started their studies at the latest in the winter semester 2013/14 is comprised of:

- Examinations in the eight compulsory modules or 48 credits:

- a) Landschaftsökologie, 6 credits
- b) Datenverarbeitung und Aufbereitung in der Landschaftsökologie, 6 credits
- c) Landschaftsökologisches Projekt, 6 credits
- d) Vegetation Mitteleuropas I (naturgeprägte Vegetation), 6 credits
- e) Vegetation Mitteleuropas II (anthropogen geprägte Vegetation), 6 credits
- f) Naturschutz und Naturschutzmanagement, 6 credits
- g) Pflanzenökologie, 6 credits,
- h) Bodengenetik, -systematik und -verbreitung, 6 credits,

- Examinations in two semi-elective modules or at least 12 credits that are chosen from the list in **Annex 9**,

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and

- Examinations in five elective modules or at least 30 credits chosen from any of the modules offered in the Master's degree programs in the Faculties of Agricultural Sciences and Natural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(3) In the specialization "Landscape Ecology", the "Master of Science" examination for students who started their studies in or after the summer semester 2014 is comprised of:

- Examinations in the seven compulsory modules or 48 credits:

- Landscape Ecology, 7.5 credits (English)
- Landschaftsökologisches Projekt, 6 credits (German)
- Conservation Biology, 7.5 credits (English)
- Community and Evolutionary Ecology, 7.5 credits (English)
- Naturschutz und Naturschutzmanagement, 6 credits (German)
- Plant Ecology, 7.5 credits (English)
- Bodengenetik, -systematik und -verbreitung, 6 credits (German),

- Examinations in two semi-elective modules or at least 12 credits that are chosen from the list in Annex 9,

and

- Examinations in five elective modules totaling at least 30 credits chosen from any of the modules offered in the Master's degree programs in the Faculties of Agricultural Sciences and Natural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(4) In the specialization "Productive Livestock Biology", the "Master of Science" examination is comprised of:

- Examinations in the six compulsory modules or 36 credits

- Ernährungsphysiologie, 6 credits
- Methoden zur Analytik und Qualitätsbeurteilung von Futtermitteln, 6 credits
- Genomische Methoden in den Nutztierwissenschaften, 6 credits
- Spezielle Tierhygiene, 6 credits,
- Tracerbasierte Methoden in der Tierernährung, 6 credits
- Verhaltensphysiologie und Immunobiologie, 6 credits

- Examinations in four semi-elective modules or at least 24 credits that are chosen from the list in Annex 9,

and

- Examinations in five elective modules or at least 30 credits chosen from any of the modules offered in the Master's degree programs in the Faculties of Agricultural Sciences and Natural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(5) Compulsory modules and semi-elective modules for which a module examination was already successfully completed during a Bachelor's degree are to be replaced by a corresponding number of semi-elective modules in **Annex 9**. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

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(6) The Faculty of Agricultural Sciences may change the list in **Annex 9**. The modules are offered according to available capacity.

(7) Students can take a maximum of 30 credits of examinations in “additional modules” (*Zusatzmodule*) besides the required modules. The result is to be included in the transcript of records upon request but is not included in the calculation of the average grade.

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## **XII. Specific Degree Program Provisions for the Master's Program "Agricultural Sciences"**

### **Section 51 Specializations**

(1) The degree program is divided into the following four specializations that are detailed in these examination regulations:

- a) Agricultural Engineering
- b) Soil Sciences
- c) Plant Production Systems
- d) Animal Sciences

(2) Admission is granted to only one of the specializations listed in Sec. 49(1) according to the respectively valid version of the admission regulations. The specializations are taught in German.

### **Section 52 Scope of the Module Examinations**

(1) In the specialization "Agricultural Engineering", the "Master of Science" examination is comprised of examinations in the six compulsory modules or 36 credits:

- a) Energietechnik, 6 credits
- b) Nacherntetechnologie, 6 credits
- c) Technische Verfahren in der Nutztierhaltung, 6 credits
- d) Statik, Festigkeitslehre und Werkstoffkunde, 6 credits
- e) Funktion und Management von Landmaschinen in der Pflanzenproduktion, 6 credits
- f) Mess- und Regelungstechnik, 6 credits,

Examinations in four semi-elective modules or at least 24 credits chosen from the lists in **Annexes 10 and 12** or from the lists of compulsory modules for the other specializations or the degree program Agribusiness, and examinations in five elective modules or at least 30 credits chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences. Semi-elective modules depending on previous education according to Sec. 54(3) may not be chosen. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules totaling up to 30 credits from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(2) In the specialization "Soil Sciences", the "Master of Science" examination is comprised of examinations in the six compulsory modules or 36 credits:

- a) Bodenbiologie für Fortgeschrittene, 6 credits
- b) Bodengenetik und Mikromorphologie, 6 credits (*or alternatively starting in the winter semester 2014/15: Bodengenetik, 6 credits*)
- c) Boden- und Umweltphysik für Fortgeschrittene, 6 credits
- d) Geomorphologie, 6 credits
- e) Integriertes bodenwissenschaftliches Projekt für Fortgeschrittene, 6 credits
- f) Stoffdynamik in Agrarökosystemen, 6 credits,

Examinations in four semi-elective modules or at least 24 credits chosen from the lists in **Annexes 10 and 12** or from the lists of compulsory modules for the other specializations or the degree program Agribusiness, and examinations in five elective modules or at least 30 credits chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences. Semi-elective modules depending on previous education according to Sec. 54(3) may not be chosen. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules totaling up to 30 credits from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(3) In the specialization "Plant Production Systems", the "Master of Science" examination is comprised of examinations in the four compulsory modules or 24 credits:

- a) Ackerbausysteme, 6 credits
- b) Integrierter Pflanzenschutz mit Übungen, 6 credits
- c) Produktqualität und Qualität der Produktion pflanzlicher Rohstoffe, 6 credits

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d) Stoffdynamik in Agrarökosystemen, 6 credits,

Examinations in six semi-elective modules or at least 36 credits chosen from the lists in **Annexes 10 and 12** or from the lists of compulsory modules for the other specializations or the degree program Agribusiness, and examinations in five elective modules or at least 30 credits chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences. Semi-elective modules depending on previous education according to Sec. 54(3) may not be chosen. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(4) In the specialization "Animal Sciences", the "Master of Science" examination is comprised of examinations in the six compulsory modules or 36 credits:

- a) Ernährungsphysiologie, 6 credits
- b) Futterwertbeurteilung, Futtermittelmikrobiologie und –mikroskopie, 6 credits
- c) Qualität und Qualitätsbeeinflussung tierischer Produkte, 6 credits
- d) Quantitative Genetik und Zuchtwertschätzung in den Nutztierwissenschaften, 6 credits
- e) Tierhaltung und Tierhaltungstechnik, 6 credits
- f) Tierkrankheiten und -gesundheitslehre, 6 credits

Examinations in four semi-elective modules or at least 24 credits chosen from the lists in **Annexes 10 and 12** or from the lists of compulsory modules for the other specializations or the degree program Agribusiness, and examinations in five elective modules or at least 30 credits chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences. Semi-elective modules depending on previous education according to Sec. 54(3) may not be chosen. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(5) Compulsory modules and semi-elective modules for which a module examination was already completed during a Bachelor's degree in the Faculty of Agricultural Sciences are to be replaced by a corresponding number of semi-elective modules in **Annex 10**. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

(6) The Faculty of Agricultural Sciences may change the list in **Annex 10**. The modules are offered according to available capacity.

(7) Students can take a maximum of 30 credits of examinations in "additional modules" (*Zusatzmodule*) besides the required modules. The result is to be included in the transcript of records upon request but is not included in the calculation of the average grade.

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### **XIII. Specific Degree Program Provisions for the Specialization “Agricultural Economics” in the Master’s Degree Program “Agricultural Sciences”**

#### **Section 53 Scope of the Module Examinations**

(1) The modules offered are divided into compulsory modules, semi-elective modules, and elective modules. The language of instruction and examination is English.

(2) The five compulsory modules totaling 30 credits are:

- a) Agricultural and Food Policy, 6 credits (English)
- b) Applied Econometrics, 6 credits (English)
- c) Environmental and Resource Economics, 6 credits (English)
- d) Farm System Modelling, 6 credits (English)
- e) Microeconomics, 6 credits, (English)

(3) Five semi-elective modules totaling 30 credits must be chosen from the list in Annex 11. The Faculty of Agricultural Sciences may change the list.

(4) The elective modules totaling at least 30 credits can be chosen from any of the modules offered in the Master’s degree programs in the Faculty of Agricultural Sciences. Upon the student’s request and with the approval of the mentor, the examination committee may also permit modules totaling up to 30 credits from other Master’s degree programs at the University of Hohenheim to be chosen as elective modules.

(5) Compulsory modules and semi-elective modules from the module catalog of the Faculty of Agricultural Sciences’ Master’s degree programs for which an elective module examination was already completed during a Bachelor’s degree are to be replaced by a corresponding number of credits from the semi-elective modules in Annex 11. Elective modules from the module catalog of the Master’s programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor’s program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master’s program.

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#### **XIV. Specific Degree Program Provisions for the Master's Program "Agribusiness"**

##### **Section 54 Scope of the Module Examinations**

(1) The modules offered are divided into compulsory modules, semi-elective modules that depend on previous education, and elective modules. The language of instruction and examination is generally German. Semi-elective modules can also be held in English with the approval of the Faculty of Agricultural Sciences

(2) The following seven modules (42 credits) are compulsory modules:

- a) Bewertungs- und Steuerlehre, 6 credits
- b) Investition, Finanzierung und dynamische Entscheidungsmodelle, 6 credits
- c) Unternehmensführung im Agribusiness, 6 credits
- d) Ökonomik der Agrar- und Ernährungswirtschaft, 6 credits
- e) Projektmodul Agribusiness, 6 credits
- f) Qualitäts- und Umweltmanagement in der Agrar- und Ernährungswirtschaft, 6 credits
- g) Haushalts- und Konsumökonomik, 6 credits

Compulsory modules and semi-elective modules for which a module examination was already completed during a Bachelor's degree in the Faculty of Agricultural Sciences are to be replaced by a corresponding number of semi-elective modules in **Annex 12**. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

(3) Two modules / 12 credits must be selected from the following lists of semi-elective modules that depend on each student's previous education.

For students with an agricultural or natural science Bachelor's degree or an equivalent degree, two of the following seven modules from business and economic sciences must be chosen:

- a) Grundlagen des Controlling, 6 credits
- b) Integratives Wertschöpfungsmanagement, 6 credits
- c) Grundlagenmodul International Business and Economics, 6 credits
- d) Ökonometrie, 6 credits
- e) Strukturen der Betriebswirtschaftslehre, 6 credits
- f) Vermarktungsprozess, 6 credits
- g) Wirtschaftsinformatik, 6 credits

For students with a business or economic science Bachelor's degree or an equivalent degree, two of the following six modules from agricultural sciences must be chosen:

- a) Grundlagen der Agrartechnik I, 6 credits
- b) Grundlagen der Agrartechnik II, 6 credits
- c) Grundlagen der Pflanzenwissenschaften I, 6 credits
- d) Grundlagen der Pflanzenwissenschaften II, 6 credits
- e) Grundlagen der Tierwissenschaften I, 6 credits
- f) Grundlagen der Tierwissenschaften II, 6 credits

(4) Three semi-elective modules totaling at least 18 credits are to be chosen from the list in **Annex 12** of these examination regulations. The Faculty of Agricultural Sciences may change the list. The modules are offered according to available capacity.

(5) Three elective modules totaling at least 18 credits can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

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(6) Students can take a maximum of 30 credits of examinations in “additional modules” (*Zusatzmodule*) besides the required modules. The result is to be included in the transcript of records upon request but is not included in the calculation of the average grade.



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## **XV. Specific Degree Program Provisions for the Master's Degree Program "Agricultural Sciences in the Tropics and Subtropics"**

### **Section 55 Scope of the Module Examinations**

(1) The modules offered are divided into compulsory modules and elective modules. The language of instruction and examination is English.

(2) The eight compulsory modules totaling 48 credits are:

- a) Crop Production Systems, 6 credits
- b) Ecology and Agroecosystems, 6 credits
- c) Interdisciplinary Practical Science Training, 6 credits or 7.5 credits
- d) Livestock Production Systems and Development, 6 credits
- e) Water and Soil Management in Agricultural Production, 6 credits or 7.5 credits
- f) Poverty and Development Strategies, 6 credits
- g) Quantitative Methods in Biosciences, 6 credits
- h) Methods in Interdisciplinary Collaboration, 6 credits

(3) The seven elective modules or at least 42 credits are to be chosen from the list in **Annex 13** or from the modules of the other Master's degree programs in the Faculty of Agricultural Sciences to build a profile. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules totaling up to 30 credits from other Master's degree programs at the University of Hohenheim to be chosen as elective modules. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

(4) Students can take a maximum of 30 credits of examinations in "additional modules" (*Zusatzmodule*) besides the required modules. The result is to be included in the transcript of records upon request but is not included in the calculation of the average grade.

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## **XVI. Specific Degree Program Provisions for the Master's Program "Crop Sciences"**

### **Section 56 Scope of the Module Examinations**

(1) The modules offered are divided into compulsory modules and semi-elective modules with the three possible majors and elective modules. The language of instruction and examination is English.

(2) The following three modules (18 credits) are compulsory modules:

- a) Advanced Statistical Methods for Metric and Categorical Data, 6 credits
- b) Crop Physiology, 6 credits
- c) Methods of Scientific Working for Crop Sciences, 6 credits.

Modules for which a module examination was already successfully completed during a Bachelor's degree are to be replaced by a corresponding number of semi-elective modules from this degree program.

(3) The following three majors are offered in this degree program, one of which must be chosen:

- a) Crop Physiology and Nutrition
- b) Crop Protection
- c) Plant Breeding and Seed Science

Upon request, the selected major can be included in the transcript of records and degree certificate. The semi-elective modules to be taken in the respective majors are listed in **Annex 14** of these examination regulations. The Faculty of Agricultural Sciences may change the list.

(4) The elective modules can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules totaling up to 30 credits from other Master's degree programs at the University of Hohenheim to be chosen as elective modules. With the compulsory, semi-elective, and elective modules, a total of at least 90 credits must be obtained.

(5) Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

(6) Students can take a maximum of 30 credits of examinations in "additional modules" (*Zusatzmodule*) besides the required modules. The result is to be included in the transcript of records upon request but is not included in the calculation of the average grade.

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## **XVII. Specific Degree Program Provisions for the Master's Degree Program "Environmental Protection and Agricultural Food Production"**

### **Section 57 Scope of the Module Examinations**

(1) The modules offered are divided into compulsory modules, semi-elective modules that depend on previous education, and elective modules. The language of instruction and examination is English.

(2) The six compulsory modules totaling 36 credits are:

- a) Economics and Environmental Policy, 6 credits
- b) Ecotoxicology and Environmental Analytics, 6 credits
- c) Environmental Microbiology, Parasitology and Microbial Ecology, 6 credits
- d) Environmental Science Project, 6 credits or 7.5 credits
- e) Matter Cycling in Agroecosystems, 6 credits
- f) Spatial Data Analysis with GIS, 6 credits or 7.5 credits

(3) One module or 6 credits are to be chosen according to the student's previous education. Students with a degree in food technology, nutritional science, or an equivalent subject, must take the following module:

- a) Agricultural Production and Residues, 6 credits

Students with a degree in agricultural science, environmental science, or an equivalent subject, must take the following module:

- b) Food Technology and Residues, 6 credits

Compulsory modules, semi-elective modules depending on previous education, and semi-elective modules for which a module examination was already completed during a Bachelor's degree in the Faculty of Agricultural Sciences are to be replaced by a corresponding number of semi-elective modules in **Annex 15**. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

(4) The three semi-elective modules or at least 18 credits must be chosen from the list in **Annex 15**. The Faculty of Agricultural Sciences may change the list.

(5) The five elective modules or at least 30 credits can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules totaling up to 30 credits from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(6) Students can take a maximum of 30 credits of examinations in "additional modules" (*Zusatzmodule*) besides the required modules. The result is to be included in the transcript of records upon request but is not included in the calculation of the average grade.

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## **XVIII. Specific Degree Program Provisions for the Master's Program in "Environmental Science - Soil, Water and Biodiversity"**

### **Section 58 "Double Degree", Enrollment, Changing Place of Studies**

(1) The degree program "Environmental Science - Soil, Water and Biodiversity" is a "double degree" program that is carried out by the following partner universities, all of whom are members of the Euroleague for Life Sciences:

- a) University of Copenhagen (UC-Life), Denmark
- b) Swedish University of Agricultural Sciences (SLU), Sweden
- c) University of Natural Resources and Applied Life Sciences (BOKU), Austria
- d) University of Hohenheim (UHOH), Germany

(2) Students who are enrolled

- a) at the University of Copenhagen in the Master's program Agronomy, specialization: Environmental Science - Soil, Water and Biodiversity,
- b) at the Swedish University of Agricultural Sciences in the Master's program in Soil and Water, or
- c) at the University of Natural Resources and Applied Life Sciences in the Master's program in Environmental Science

are considered to be enrolled in the degree program "Environmental Science - Soil, Water and Biodiversity" if they entered the University of Hohenheim as the "host university" when enrolling.

(3) The students are obligated to complete their studies at (at least) two of the partner universities (home and host university) with module examinations totaling at least 30 credits at each of the universities.

(4) Module examinations completed at other institutions are recognized upon request according to Sec. 8 of these examination regulations if, of the 90 credits required with module examinations,

- a) at least 60 credits were completed at the University of Hohenheim or
- b) at least 30 credits were completed at the University of Hohenheim and the student's first or second supervisor for the Master's thesis is a member of the University of Hohenheim.

If the remaining credits were completed in one of the degree programs listed under Sec. 39(2), the students may receive an additional degree certificate and transcript of records of all of the module examinations completed in the degree programs listed in Sec. 39(2) from the partner universities at which they completed module examinations according to those universities' examination regulations (double degree).

(5) The students should typically complete either the first or the second year of studies in Hohenheim and take courses at one of the partner universities during the other year (second or first, respectively). The Master's thesis should not be completed at the university at which studies are started. The Master's thesis is typically carried out at the university at which Package 3 (cf. Sec. 59(4)) was completed.

This is a courtesy translation. Only the German version is legally binding. If there are any differences in the wording, interpretation, or meaning of the German and English versions, the German version shall prevail.

## Section 59 Scope of the Module Examinations

(1) The module offers are divided into three packages corresponding to the first three subject-related semesters. The language of instruction and examination is English.

(2) Package 1 is the basic semester package (BSP) totaling 30 credits. It is made up of three compulsory modules and one elective module. The compulsory modules are:

- a) Environmental Management in Europe, 15 credits
- b) Matter Cycling in Agroecosystems, 6 credits
- c) Quantitative Methods in Biosciences, Part one: Basic Statistics, 3 credits

The semi-elective module in the basic package is to be chosen from the following list:

- a) Crop Production Affecting the Hydrological Cycle, 6 credits
- b) Global Change Issues, 6 credits
- c) Inland Water Ecosystems, 6 credits
- d) Land Use Economics, 6 credits

Compulsory and semi-elective modules for which a module examination was already successfully completed during a Bachelor's degree are to be replaced by a corresponding number of elective modules from the list above. Equivalent modules are offered in the degree programs listed in Sec. 58(2) at the partner universities that can be recognized upon request under consideration of the regulations according to Sec. 58(4).

(3) Package 2 is an advanced semester package 2 (ASP 2) that comprises 30 credits and in which one of the following specializations must be chosen:

- a) Environmental Impacts
- b) Environmental Management
- c) Climate Change
- d) Soil Resources and Land Use

The compulsory and semi-elective modules within the specializations are listed in **Annex 16** of these examination regulations. The Faculty of Agricultural Sciences may change the list. The compulsory modules are binding for the respective specialization, and enough of the semi-elective modules must be chosen so that a total of at least 18 credits are obtained. In addition, 12 credits may be chosen freely from all Master's modules in the Faculty of Agricultural Sciences. The selected specialization will be noted in the transcript of records.

Equivalent specializations and modules are offered in the degree programs listed in Sec. 58(2) at the partner universities that can be recognized upon request under consideration of the regulations according to Sec. 58(4).

(4) Package 3 is an advanced semester package 2 (ASP 2) that comprises 30 credits and in which one of the following specializations must be chosen:

- a) Environmental Impacts
- b) Environmental Management
- c) Climate Change
- d) Soil Resources and Land Use

The semi-elective modules within the specializations are listed in **Annex 6** of these examination regulations by the students who started studying at a partner university in the winter semester 2013/14. The Faculty of Agricultural Sciences may change the list. Enough of the semi-elective modules must be chosen so that 24 credits are obtained. In addition, 6 credits may be chosen freely from all Master's modules in the Faculty of Agricultural Sciences. The selected specialization will be noted in the transcript of records. (Annex 17 only applies to students who started their studies at a partner university before the winter semester 2013/14.)

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Equivalent specializations and modules are offered in the degree programs listed in Sec. 58(2) at the partner universities that can be recognized upon request under consideration of the regulations according to Sec. 58(4).

(5) In the Packages 2 and 3, different specializations can be chosen. It is not possible to count modules from Package 2 in Package 3 or vice versa. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules for Packages 2 and 3.

(6) Students can take a maximum of 30 credits of examinations in "additional modules" (*Zusatzmodule*) besides the required modules. The result is to be included in the transcript of records upon request but is not included in the calculation of the average grade.

## **Section 60 Examinations at the Partner Universities**

(1) The written examination in the module "Environmental Management in Europe (EME)" (15 credits according to Sec. 59(2)) is carried out under supervision on an e-learning platform and takes four hours. The written exam is graded centrally at the University of Copenhagen. This examination is complemented by an exam component made up of a written report on a project done in the context of EME including a web presentation of the results.

(2) Module examinations in modules that are completed as part of double degree programs at partner universities according to Sec. 58(2) follow the regulations of the respective partner university. This applies in particular to the regulations about registering for the examinations, the examiners and observers, the examination work and components, the duration of the examination, notification of the examination results including notification of failure, possibilities for re-taking the examination, and inspecting the examination documents.

(3) The grading of module examinations in modules that are completed as part of double degree programs at partner universities according to Sec. 58(2) first follows the regulations of the respective partner university. The grades are then converted into the German system according to Sec. 12. The conversion table and its explanation can be found in the curriculum.

(4) If the Master's thesis is completed at a partner university, the first and second examiners should come from different partner universities.

(5) If the Master's thesis is assigned and carried out at the University of Hohenheim, the first supervisor should come from among the people in Sec. 7(3) at the University of Hohenheim. Upon the suggestion of the first supervisor, the examination committee then appoints the second supervisor, who is chosen from among the people in Sec. 20(3) at the partner university.

(6) The proof of advising according to Sec. 9 of the study and examination plan must be submitted to the University of Hohenheim's Examinations Office before the first examination in an elective or semi-elective module is taken in Hohenheim. In addition to the elective and semi-elective modules, the respective specializations chosen in Packages 2 and 3 as well as the chosen partner university(ies) and the modules already taken or planned there are to be listed.

(7) The students are responsible for ensuring that the examination deadlines in these regulations are met.

This is a courtesy translation. Only the German version is legally binding. If there are any differences in the wording, interpretation, or meaning of the German and English versions, the German version shall prevail.

## **Section 61 “Double Degree”, Transcript of Records, and Degree Certificate**

(1) On the degree certificate, there is the sentence “The Faculty of Agricultural Sciences of the University of Hohenheim has conferred upon ... the academic degree Master of Science (M.Sc.) in the Double Degree Master’s Program Environmental Science – Soil, Water and Biodiversity“ if the partner universities are also issuing a transcript of records and degree certificate for the degree programs listed in Sec. 58(2). If this is not the case, the sentence reads: “The Faculty of Agricultural Sciences of the University of Hohenheim has conferred upon ... the academic degree Master of Science (M.Sc.) in the Master’s Program Environmental Science – Soil, Water and Biodiversity”.

(2) On the transcript of records, there is the sentence “... has successfully completed all requirements for the double degree Master’s Program in Environmental Science – Soil, Water and Biodiversity with the total grade ...” if the partner universities are also issuing a transcript of records and degree certificate for the degree programs listed in Sec. 58(2). If this is not the case, the sentence reads: “... has successfully completed all requirements for the Master’s Program in Environmental Science – Soil, Water and Biodiversity with the total grade ...”. In the first case, the partner university (or partner universities) is named at which the modules and, if applicable, the Master’s thesis were completed and from whom a transcript of records and degree certificate will also be issued. The module examinations completed at the partner universities are marked as such on the transcript of records.

This is a courtesy translation. Only the German version is legally binding. If there are any differences in the wording, interpretation, or meaning of the German and English versions, the German version shall prevail.

## **IXX. Specific Degree Program Provisions for the Master's Degree Program "Organic Agriculture and Food Systems"**

### **Section 62 "Double Degree", Enrollment, Changing Place of Studies**

(1) The degree program "Organic Agriculture and Food Systems" is a "double degree" program that is carried out by the following partner universities, all of whom are members of the Euroleague for Life Sciences with the exception of Aarhus University:

- a) Warsaw University of Life Sciences (WULS), Poland
- b) University of Natural Resources and Applied Life Sciences (BOKU), Austria
- c) Aarhus University, Faculty of Agricultural Sciences (AU-DJF), Denmark
- d) University of Hohenheim (UHOH), Germany

(2) Students who are enrolled

- a) at the University of Natural Resources and Applied Life Sciences in the Master's program "Food Technology and Consumer Sciences with Specialisation in Organic Agriculture Systems and Agroecology" or
- b) at the Warsaw University of Life Sciences in the Master's program "Organic Agriculture Systems and Agroecology"
- c) or the Aarhus University in the Master's program "Agrobiology with specialisation in Organic Agriculture"

are considered to be enrolled in the degree program "Organic Agriculture and Food Systems" at the University of Hohenheim if they entered the University of Hohenheim as the "host university" when enrolling.

(3) The degree program includes a change in place of study after the first year so that the students can complete their studies at two of the partner universities (the home and host university).

(4) Module examinations completed at other universities are recognized upon request according to Sec. 8 of these examination regulations if, of the 90 credits required with module examinations,

- a) at least 60 credits were completed at the University of Hohenheim or
- b) at least 30 credits were completed at the University of Hohenheim and the student's first or second supervisor for the Master's thesis is a member of the University of Hohenheim.

If the remaining credits were completed at one of the universities listed under Sec. 44(1), the students may receive an additional degree certificate and transcript of records of all of the module examinations completed in the degree programs listed in Sec. 39(2) from the partner universities at which they completed module examinations according to those universities' examination regulations (double degree).

(5) The students should typically complete either the first or the second year of studies in Hohenheim and take courses at one of the partner universities during the other year (second or first, respectively). The Master's thesis should not be completed at the university at which studies are started. The Master's thesis is typically carried out at the university at which the specialization (cf. Sec. 63(5)) was completed.

### **Section 63 Scope of the Module Examinations**

(1) The modules are divided into a basic package and a specialization package. The language of instruction and examination is English.

(2) The basic package includes 60 credits. It is made up of a common introductory module "Principles of Organic Food Systems", which is 6 credits including e-learning, and additional compulsory modules totaling 42 credits as well as elective modules totaling 12 credits. If students want to complete the entire program at the University of Hohenheim, the module "Principles of Organic Food Systems" is replaced by the module "Organic Food Systems and Concepts". If a student changes from a double degree to a single degree or vice versa, these two modules are mutually recognizable.



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The compulsory modules at the University of Hohenheim are:

- a) Markets and Marketing of Quality Food, 6 credits
- b) Organic Livestock Farming and Products, 6 credits
- c) Organic Plant Production, 6 credits
- d) Processing and Quality of Organic Food, 6 credits
- e) Project in Organic Agriculture and Food Systems, 6 credits
- f) Social Conditions of Organic and Sustainable Agriculture, 6 credits
- g) Economics and Environmental Policy, 6 credits

The Project in Organic Agriculture and Food Systems takes place over two semesters.

(3) The two elective modules or at least 12 credits in the basic package can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences to create a profile.

(4) According to Sec. 8(9), a maximum of three compulsory modules or 18 credits may be replaced by the corresponding number of elective modules according to Sec. 63(3). Sec. 8(4) applies accordingly. Equivalent modules for the basic packages are offered in the degree programs listed in Sec. 62(2) at the Natural Resources and Life Science (BOKU) and the Aarhus University, Denmark (AU-DJF) that can be recognized upon request under consideration of the regulations according to Sec. 62(4).

(5) The specialization package includes 30 credits. The specialization and modules within the specialization are selected from the list in the curriculum. The Faculty of Agricultural Sciences may change the list. Enough of the modules must be chosen so that a total of at least 30 credits are obtained. The selected specialization will be noted in the transcript of records upon request. Equivalent specializations and modules are offered in the degree programs listed in Sec. 62(2) at the WULS, BOKU, and AU-DJF that can be recognized upon request under consideration of the regulations according to Sec. 62(4).

(6) Upon the student's request and with the approval of the mentor, the examination committee may also permit modules from other Master's degree programs at the University of Hohenheim to be chosen as elective modules for the specialization package.

(7) Students can take a maximum of 30 credits of examinations in "additional modules" (*Zusatzmodule*) besides the required modules. The result is to be included in the transcript of records upon request but is not included in the calculation of the average grade.

## **Section 64 Examinations at the Partner Universities**

(1) The written examination in the introductory module "Principles of Organic Food Systems" (6 credits according to Sec. 63(2)) is carried out at the individual "home universities" by the program coordinator there according to the respective examination regulations.

(2) Module examinations at partner universities follow the regulations of the respective partner university. This applies in particular to the regulations about registering for the examinations, the examiners and observers, the examination work and components, the duration of the examination, notification of the examination results including notification of failure, possibilities for re-taking the examination, and inspecting the examination documents.

(3) The grading of module examinations in modules at partner universities first follows the regulations of the respective partner university. The grades are then converted into the German system according to Sec. 18. The conversion table and its explanation can be found in the curriculum.

This is a courtesy translation. Only the German version is legally binding. If there are any differences in the wording, interpretation, or meaning of the German and English versions, the German version shall prevail.

(4) If the Master's thesis is assigned and carried out at the University of Hohenheim, the first supervisor should come from among the people in Sec. 7(4) at the University of Hohenheim. Upon the suggestion of the first supervisor, the examination committee then appoints the second supervisor, who is chosen from among the people in Sec. 7(4) at the partner university.

(5) The proof of advising according to Sec. 9(2) of the study and examination plan must be submitted to the University of Hohenheim's Examinations Office before the first examination in an elective module is taken in Hohenheim. In addition to the elective and semi-elective modules, the chosen specializations and partner university(ies) are to be listed.

(6) The students are responsible for ensuring that the examination deadlines in these regulations are met.

## **Section 65 Transcript of Records and Degree Certificate**

(1) On the degree certificate, there is the sentence "The Faculty of Agricultural Sciences of the University of Hohenheim has conferred upon ... the academic degree Master of Science (M.Sc.) in the Double Degree Master's Program Organic Agriculture and Food Systems" if the partner universities are also issuing a transcript of records and degree certificate for the degree programs listed in Sec. 62(2). If this is not the case, the sentence reads: "The Faculty of Agricultural Sciences of the Universität Hohenheim has conferred upon ... the academic degree Master of Science (M.Sc.) in the Master's Program Organic Agriculture and Food Systems".

(2) On the transcript of records, there is the sentence "... has successfully completed all requirements for the double degree Master's Program in Organic Agriculture and Food Systems with the total grade ..." if the partner universities are also issuing a transcript of records and degree certificate for the degree programs listed in Sec. 62(2). If this is not the case, the sentence reads: "... has successfully completed all requirements for the Master's Program in Organic Agriculture and Food Systems with the total grade ...". In the first case, the partner university (or partner universities) is named at which the modules and, if applicable, the Master's thesis were completed and from whom a transcript of records and degree certificate will also be issued. The module examinations completed at the partner universities are marked as such on the transcript of records.

This is a courtesy translation. Only the German version is legally binding. If there are any differences in the wording, interpretation, or meaning of the German and English versions, the German version shall prevail.

## XX. Specific Degree Program Provisions for the Master's Program "Biobased Products and Bioenergy"

### Section 66 Scope of the Module Examinations

(1) The modules offered are divided into compulsory modules, semi-elective modules, and elective modules. The language of instruction and examination is generally German. Semi-elective modules can also be held in English with the approval of the Faculty of Agricultural Sciences

(2) The following six modules (42 credits) are compulsory modules:

- a) Nachhaltigkeit und Bewertung von rohstoffliefernden Pflanzen - Life Cycle Assessment, 6 credits
- b) Produktionsökologie von Energiepflanzen und nachwachsenden Rohstoffen, 6 credits
- c) Projektarbeit Nachwachsende Rohstoffe und Bioenergie, 12 credits or 15 credits
- d) Separationstechniken und Konversionstechnologien nachwachsender Rohstoffe, 6 credits
- e) Technische Verfahren zur Nutzung von nachwachsenden Rohstoffen, 6 credits
- f) Unternehmensführung im Agribusiness, 6 credits

Compulsory modules and semi-elective modules for which a module examination was already completed during a Bachelor's degree in the Faculty of Agricultural Sciences are to be replaced by a corresponding number of semi-elective modules in **Annex 18**. Elective modules from the module catalog of the Master's programs in the Faculty of Agricultural Sciences that were already taken as elective modules in a Bachelor's program in the Faculty of Agricultural Sciences may not be chosen as elective modules in a Master's program.

(3) Three semi-elective modules or at least 18 credits are to be chosen from the list in **Annex 18** of these examination regulations. The Faculty of Agricultural Sciences may change the list. The modules are offered according to available capacity.

(4) Five elective modules or at least 30 credits can be chosen from any of the modules offered in the Master's degree programs in the Faculty of Agricultural Sciences. Upon the student's request and with the approval of the mentor, the examination committee may also permit modules totaling up to 30 credits from other Master's degree programs at the University of Hohenheim to be chosen as elective modules.

(5) Students can take a maximum of 30 credits of examinations in "additional modules" (*Zusatzmodule*) besides the required modules. The result is to be included in the transcript of records upon request but is not included in the calculation of the average grade.

This is a courtesy translation. Only the German version is legally binding. If there are any differences in the wording, interpretation, or meaning of the German and English versions, the German version shall prevail.

### **Section 67 Entry into Force; Transitional Provisions**

(1) These examination regulations shall enter into force on 23 May 2016. They apply to students who started their studies as of 1 October 2016.

(2) At the same time, the examination regulations for the Master's degree programs "Agricultural Biology," "Agricultural Sciences (Specializations Agricultural Engineering, Soil Sciences, Plant Production Systems, Animal Sciences)," "Agribusiness," and "Biobased Products and Bioenergy" from 13 October 2013 including all subsequent changes and the examination regulations for the Master's degree programs "Agricultural Sciences in the Tropics and Subtropics," "Crop Sciences," "Environmental Protection and Agricultural Food Production," "Environmental Science - Soil, Water and Biodiversity," "Organic Agriculture and Food Systems," and for the specialization "Agricultural Economics" in the Master's degree program "Agricultural Sciences" from 21 October 2010 including all subsequent changes shall cease to be in force.

(3) Students who are in the second or higher semester in one of the degree programs listed in Sec. 67(2) at the time these examination regulations enter into force shall continue their studies according to the regulations of the general provisions of these examination regulations and the specific degree program provisions in the second particular part, but upon request they can complete their studies according to the specific degree program provisions in the first particular part. Students who are in the first semester are subject to the provisions in the general part and the first particular part as of the time these regulations enter into force.

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## Annex 1

### List of semi-elective modules from the specialization “Agricultural Engineering”

- a) Ackerschlepper und selbstfahrende Landmaschinen, 6 credits (German)
- b) Automatisierung landwirtschaftlicher Verfahren, 6 credits (German)
- c) Bauen und Stallklima, 6 credits (German)
- d) Bewässerungstechnik für Nahrungs- und Energiepflanzen, 6 credits (German)
- e) Biomasse als Energieträger, 6 credits (German)
- f) Erneuerbare Energieträger, 6 credits (German)
- g) Landschafts-, Kommunal- und Forsttechnik, 6 credits (German)
- h) Melktechnik und Melkverfahren, 6 credits (German)
- i) Methoden des Precision Livestock Farming, 6 credits (German)
- j) Precision Farming, 6 credits (English)
- k) Umweltschutz und Standortsicherung, 6 credits (German)

### List of semi-elective modules from the specialization “Soil Sciences”

- a) Environmental Microbiology, 6 credits (English)
- b) Boden- und vegetationskundliche Geländeübungen / Field Course Soils and Vegetation, 7.5 credits (German/English)
- c) Bodenschutz, Bodenbewertung und Bodensanierung, 7.5 credits (German)
- d) Bodengenetik, 6 credits (German)
- e) Bodenkundliches Experiment, 7.5 credits (German)
- f) Ecotoxicology and Environmental Analytics, 6 credits (English)
- g) Environmental Pollution and Soil Organisms, 7.5 credits (English)
- h) Molecular Soil Ecology, 7.5 credits (English)
- i) Remote Sensing of the Earth System, 6 credits (English)
- j) Ressourcenschutz und Landrehabilitation in den Tropen und Subtropen, 6 credits (German)
- k) Spatial Data Analysis with GIS, 7.5 credits (English)
- l) Soils of the World, 7.5 credits (English)
- m) Vegetation and Soils of Central Europe / Vegetation und Böden Mitteleuropas, 7.5 credits (English/German)

### List of semi-elective modules from the specialization “Plant Production Systems”

- a) Advanced Statistical Methods for Metric and Categorical Data, 6 credits (English)
- b) Breeding Methodology, 6 credits (English)
- c) Crop Protection in Organic Farming, 6 credits (English)
- d) Entomology, 6 credits (English)
- e) Ertragsbildung und Produktionstechnik, 6 credits (German)
- f) Frucht- und Nacherntephysiologie, 6 credits (German)
- g) Graslandssysteme, 6 credits (German)
- h) Graslandwissenschaften, 6 credits (German)
- i) Interaktionen Unkraut-Kulturpflanzen, 6 credits (German)
- j) Landwirtschaftliches Versuchswesen, 6 credits (German)
- k) Molecular Aspects of Plant Protection, 6 credits (English)
- l) Plant Genetic Resources, 6 credits (English)
- m) Plant Symbioses for Nutrient Acquisition, 6 credits (English)
- n) Population and Quantitative Genetics, 6 credits (English)
- o) Saatguttechnologie, 6 credits (German)
- p) Seed Testing, 6 credits (English)
- q) Soil Fertility and Fertilisation in Organic Farming, 6 credits (English)
- r) Stressphysiologie, 6 credits (German)
- s) Weltwirtschaftspflanzen und Weidewirtschaft in den Tropen und Subtropen, 6 credits (German)
- t) Wirt-Parasit-Interaktionen, 6 credits (German)

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**List of semi-elective modules from the specialization “Animal Sciences” with major assignment**

**Major: Nutrition and Feed**

- a) Futtermitteltechnologie und -analytik, 6 credits (German)
- b) Futtermittelmikrobiologie, 7.5 credits (German)
- c) Spezielle Ernährung der Wiederkäuer, 7.5 credits (German)
- d) Spezielle Ernährung der Nichtwiederkäuer, 6 credits (German)
- e) Structure and Function of the Gut Microbiota, 6 credits (English)
- f) Tracerbasierte Methoden in der Tierernährung, 7.5 credits (German)

**Major: Genomics and Breeding**

- a) Evolutionsgenomik, 6 credits (German)
- b) Molekulare Evolution und Populationsgenetik, 7.5 credits (German)
- c) Molekulargenetische Methoden in der Tierzucht, 6 credits (German)
- d) Quantitativ-genetische Methoden in der Tierzucht, 6 credits (German)
- e) Zuchtplanung und Zuchtpraxis in den Nutztierwissenschaften, 7,5 credits (German)

**Major: Health and Behavior**

- a) Immunologie und Infektionsbiologie, 7.5 credits (German)
- b) Leistungsassoziierte Stoffwechselstörungen bei landwirtschaftlichen Nutztieren, 7.5 credits (German)
- c) Molecular Infectiology and Medical Microbiology, 6 credits (English)
- d) Spezielle Tierhygiene, 7.5 credits (German)
- e) Verhaltensbiologie, 7.5 credits (German)

**Additional semi-elective modules in the specialization Animal Sciences without a major assignment**

- a) Bienen, 7.5 credits (German)
- b) Food Chain Eier und Geflügelfleisch, 6 credits (German)
- c) Qualität und Qualitätsbeeinflussung tierischer Produkte, 6 credits (German)

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## **Annex 2**

### **List of semi-elective modules for the specialization “Agricultural Economics” in the Master’s degree program “Agricultural Sciences”**

- a) Advanced Policy Analysis Modelling, 6 credits (English)
- b) Agricultural Economics Seminar, 6 credits (English)
- c) Agricultural Production and Residues, 6 credits (English)
- d) Farm and Project Evaluation, 6 credits (English)
- e) Food and Nutrition Security, 6 credits (English)
- f) Gender, Nutrition, and Right to Food, 6 credits (English)
- g) Governance, Institutions and Organisational Development, 6 credits (English)
- h) International Food and Agricultural Trade, 6 credits (English)
- i) Knowledge and Innovation Management, 6 credits (English)
- j) Land Use Economics, 6 credits (English)
- k) Policy Processes in Agriculture and Natural Resource Management, 6 credits (English)
- l) Poverty and Development Strategies, 6 credits (English)
- m) Quantitative Methods in Economics, 6 credits (English)
- n) Qualitative Research Methods in Rural Development Studies, 6 credits (English)
- o) Sustainable Discourses and Environmental Sociology, 6 credits (English)

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### **Annex 3**

#### **List of the semi-elective modules in the degree program “Agribusiness”**

- a) ABWL 1: Unternehmensführung, 6 credits (German)
- b) Ackerschlepper und selbstfahrende Landmaschinen, 6 credits (German)
- c) Wirtschaft & Ethik, 6 credits (German)
- d) Erneuerbare Energieträger (if not already chosen as a semi-elective module dependent on previous education), 6 credits (German)
- e) Formen und Evolution von Agrarwirtschaften im regionalen und internationalen Vergleich, 6 credits (German)
- f) Funktion und Management von Landmaschinen in der Pflanzenproduktion, 6 credits (German)
- g) Einführung in die Ökonometrie, 6 credits (German)
- h) Human Resources Management, 6 credits (German)
- i) Industriegütermarketing, 6 credits (German)
- j) Qualität und Qualitätsbeeinflussung tierischer Produkte, 6 credits (German)
- k) Produktqualität und Qualität der Produktion pflanzlicher Rohstoffe, 6 credits (German)
- l) Questionnaire Design and Data Analysis in SPSS, 6 credits (German)
- m) Sozialwissenschaften, 6 credits (German)
- n) Technische Verfahren in der Nutztierhaltung, 6 credits (German)
- o) Nachhaltigkeitsmanagement, 6 credits (German)
- p) Verbraucherpolitik, 6 credits (German)
- q) Verhandlungsmanagement, 6 credits (German)



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#### **Annex 4**

##### **List of semi-elective modules in the Master's degree program "Environmental Protection and Agricultural Food Production"**

- a) Biodiversity, Plant and Animal Genetic Resources, 7.5 credits (English)
- b) Ecology and Agroecosystems, 6 credits (English)
- c) Environmental Pollution and Soil Organisms, 7.5 credits (English)
- d) Environmental Science Project, 7.5 credits (English)
- e) Food Safety and Quality Chains, 6 credits (English)
- f) Gender, Nutrition, and Right to Food, 6 credits (English)
- g) Global Change Issues, 6 credits (English)
- h) Global Nutrition, 7.5 credits (English)
- i) Inland Water Ecosystems, 6 credits (English)
- j) Irrigation and Drainage Technology, 7.5 credits (English)
- k) Postharvest Technology of Food and Bio-Based Products, 7.5 credits (English)
- l) Renewable Energy for Rural Areas, 7.5 credits (English)
- m) Resource Use and Conservation in the Tropics and Subtropics, 6 credits (English)
- n) Waste Management and Waste Techniques, 6 credits (English)

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## Annex 5

### **Specializations with compulsory and semi-elective modules in Package 2 that are offered by the University of Hohenheim in the degree program “Environmental Science - Soil, Water and Biodiversity”**

#### **Environmental Impacts**

##### *Compulsory module*

- a) Spatial Data Analysis with GIS, 7.5 credits

##### *Recommended semi-elective modules*

- a) Biodiversity, Plant and Animal Genetic Resources, 7.5 credits (English)
- b) Crop Production Affecting the Hydrological Cycle, 7.5 credits (English)
- c) Environmental Science Project, 7.5 credits (English)
- d) Boden- und vegetationskundliche Geländeübungen / Field Course Soils and Vegetation, 7.5 credits (German/English)
- e) Irrigation and Drainage Technology, 7.5 credits (English)
- f) Soils of the World, 7.5 credits (English)

#### **Environmental Management**

##### *Compulsory module*

- a) Spatial Data Analysis with GIS, 7.5 credits (English)

##### *Semi-elective modules*

- a) Biodiversity, Plant and Animal Genetic Resources, 7.5 credits (English)
- b) Integrated Agricultural Production Systems, 7.5 credits (English)
- c) Irrigation and Drainage Technology, 7.5 credits (English)
- d) Environmental Science Project, 7.5 credits (English)
- e) Landscape Change, Resilience, and Ecosystem Services, 7.5 credits (English)
- f) Renewable Energy for Rural Areas, 7.5 credits (English)

#### **Soil Resources and Land Use**

##### *Compulsory module*

- a) Spatial Data Analysis with GIS, 7.5 credits (English)

##### *Semi-elective modules*

- a) Fertilisation and Soil Fertility Management in the Tropics and Subtropics, 7.5 credits (English)
- b) Soils of the World, 7.5 credits (English)
- c) Crop Production Affecting the Hydrological Cycle, 7.5 credits (English)
- d) Environmental Pollution and Soil Organisms, 7.5 credits (English)
- e) Environmental Science Project, 7.5 credits (English)
- f) Boden- und vegetationskundliche Geländeübungen / Field Course Soils and Vegetation, 7.5 credits (German/English)
- g) Irrigation and Drainage Technology, 7.5 credits (English)
- h) Bodenwissenschaftliches Experiment / Project in Soil Sciences, 7.5 credits (German/English)

#### **Ecosystems and Biodiversity**

##### *Compulsory module*

- a) Spatial Data Analysis with GIS, 7.5 credits (English)

##### *Semi-elective modules*

- a) Biodiversity, Plant and Animal Genetic Resources, 7.5 credits (English)
- b) Combining Ecological Models and Data, 7.5 credits (English)
- c) Environmental Science Project, 7.5 credits (English)
- d) Boden- und vegetationskundliche Geländeübungen / Field Course Soils and Vegetation, 7.5 credits (German/English)
- e) Intensive Course Landscape Ecology, 7.5 credits (English)
- f) Landscape Change, Resilience, and Ecosystem Services, 7.5 credits (English)

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## Annex 6

### Specializations with semi-elective modules in Package 3 that are offered by the University of Hohenheim in the degree program “Environmental Science - Soil, Water and Biodiversity”

#### Environmental Impacts

##### *Semi-elective modules*

- a) Agricultural Production and Residues, 6 credits (English)
- b) Ecology and Agroecosystems, 6 credits (English)
- c) Ecotoxicology and Environmental Analytics, 6 credits (English)
- d) Global Change Issues, 6 credits (English)
- e) Waste Management and Waste Techniques, 6 credits (English)

#### Environmental Management

##### *Semi-elective modules*

- a) Economics and Environmental Policy, 6 credits (English)
- b) Emotions in Public Discourses on Food Agriculture, 6 credits (English)
- c) Farm System Modelling, 6 credits (English)
- d) Poverty and Development Strategies, 6 credits (English)
- e) Waste Management and Waste Techniques, 6 credits (English)

#### Climate Change

##### *Compulsory module*

- a) Climate Change Impacts, Adaptation and Mitigation, 15 credits (English)

##### *Semi-elective modules*

- a) Environmental Modeling, 6 credits (English)
- b) Global Change Issues, 6 credits (English)
- c) Physics of the Earth System, 6 credits (English)

#### Soil Resources and Land Use

##### *Semi-elective modules*

- a) Environmental Microbiology, 6 credits (English)
- b) Soil Science Experiment (=Project in Soil Sciences), 7.5 credits (German/English)
- c) Climate Change Impacts, Adaptation and Mitigation, 15 credits (English)
- d) Environmental Modeling, 6 credits (English)
- e) Fertilisation and Soil Fertility Management in the Tropics and Subtropics, 7.5 credits (English)
- f) Plant and Crop Modeling, 6 credits (English)
- g) Soil Fertility and Fertilisation in Organic Farming, 6 credits (English)

#### Ecosystems and Biodiversity

##### *Semi-elective modules (Alternative 1)*

- a) Ecology and Agroecosystems, 6 credits (English)
- b) Environmental Modeling, 6 credits (English)
- c) GIS and Remote Sensing in Landscape Ecology, 6 credits (English)
- d) Population and Quantitative Genetics, 6 credits (English)
- e) GIS and Remote Sensing in Landscape Ecology, 6 credits (English)

##### *Semi-elective modules (Alternative 2)*

- a) Community and Evolutionary Ecology, 7.5 credits (English)
- b) Conservation Biology, 7.5 credits (English)
- c) Landscape Ecology, 7.5 credits (English)
- d) Methods in Landscape and Plant Ecology, 7.5 credits (English)
- e) Plant Ecology, 7.5 credits (English)

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## **Annex 7**

### **List of semi-elective modules in the Master's degree program "Landscape Ecology"**

- a) Biodiversity, Plant and Animal Genetic Resources, 7.5 credits (English)
- b) Boden- und vegetationskundliche Geländeübungen / Field Course Soils and Vegetation, 7.5 credits (German/English)
- c) Combining Ecological Models and Data, 7.5 credits (English)
- d) Crop Production Affecting the Hydrological Cycle, 7.5 credits (English)
- e) Landscape Change, Resilience, and Ecosystem Services, 7.5 credits (English)
- f) Renewable Energy for Rural Areas, 7.5 credits (English)
- g) Soils of the World, 7.5 credits (English)
- h) Spatial Data Analyses with GIS, 7.5 credits (English)
- i) Vegetation and Soils of Central Europe / Vegetation und Böden Mitteleuropas, 7.5 credits (English/German)

This is a courtesy translation. Only the German version is legally binding. If there are any differences in the wording, interpretation, or meaning of the German and English versions, the German version shall prevail.

## Annex 8

### List of semi-elective modules in the Master's program "Biobased Products and Bioenergy"

- a) Ackerbausysteme, 6 credits (German)
- b) Advanced Statistical Methods for Metric and Categorical Data, 6 credits (English)
- c) Automatisierung landwirtschaftlicher Verfahren, 6 credits (German)
- d) Bewässerungstechnik für Nahrungs- und Energiepflanzen, 6 credits (German)
- e) Ecology and Agroecosystems, 6 credits (English)
- f) Ecophysiology of Crops in the Tropics and Subtropics, 7.5 credits (English)
- g) Energy and Water Regime at the Land Surface, 6 credits (English)
- h) Erneuerbare Energieträger, 6 credits (German)
- i) Global Change Issues, 6 credits (English)
- j) Mathematische Modelle in den Life Sciences, 6 credits (German)
- k) Modeling of Agroecosystems, 6 credits (English)
- l) Physics of the Earth System, 6 credits (English)
- m) Post-Harvest Technology of Food and Bio-Based Products, 6 credits (English)
- n) Produktqualität und Qualität der Produktion pflanzlicher Rohstoffe, 6 credits (German)
- o) Technische Verfahren zur Nutzung von nachwachsenden Rohstoffen, 6 credits (German)
- p) Renewable Energy for Rural Areas, 7.5 credits (English)
- q) Ressourcenschutz und Landrehabilitation in den Tropen und Subtropen, 6 credits (German)
- r) Stoffdynamik in Agrarökosystemen, 6 credits (German)
- s) Umweltschutz und Standortsicherung, 6 credits (German)

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## Annex 9

### List of semi-elective modules for the specialization “Agricultural Biotechnology”

- a) Advanced Statistical Methods for Metric and Categorical Data, 6 credits (English)
- b) Biotechnologische Methoden in der Landwirtschaft, 6 credits
- c) Bodenbiologie für Fortgeschrittene, 6 credits
- d) Bodenwissenschaftliches Experiment/Project in Soil Science, 6 credits or 7.5 credits (German/English)
- e) From Genes to Transgenic Plants, 6 credits (English)
- f) Grundlagen der Bioinformatik, 6 credits
- g) Molekulare Pflanzenernährung, 6 credits
- h) Molecular Phytopathology, 6 credits (English)
- i) Plant Genetic Resources, 6 credits (English)
- j) Plant Quality, 6 credits
- k) Qualitätsrelevante Inhaltsstoffe von Nutzpflanzen, 6 credits
- l) Transgenic Organisms in Research and Agriculture, 6 credits (English)
- m) Wissenschaftliche Fragestellungen der Umwelt- und Tierhygiene (Labor- und Projektarbeit), 6 credits

### List of semi-elective modules for the specialization “Landscape Ecology”

- a) Angewandte Limnologie (*alternatively the new English-language version “Applied Limnology”*) 6 credits
- b) Air Pollution and Air Pollution Control, 6 credits (English)
- c) Biodiversity, Plant and Animal Genetic Resources, 6 credits or 7.5 credits (English)
- d) Boden- und Vegetationskartierung, 6 credits
- e) Bodenbiologie für Fortgeschrittene, 6 credits
- f) Bodenschutz und Bodenschutzrecht, 6 credits
- g) Ecotoxicology and Environmental Analytics, 6 credits (English)
- h) Environmental Pollution and Soil Organisms, 6 credits or 7.5 credits (English)
- i) Experimentelle Ökotoxikologie, 6 credits
- j) Geomorphologie, 6 credits
- k) Global Change Issues, 6 credits (English)
- l) Inland Water Ecosystems, 6 credits (English)
- m) Klimatologie und Edaphologie, 6 credits
- n) Landschafts- und standortkundliche Übungen im Gelände mit Seminar, 6 credits
- o) Numerische Methoden der Landschaftsökologie, 6 credits
- p) Spezielle Limnologie, 6 credits
- q) Stoffdynamik in Agrarökosystemen, 6 credits

### List of semi-elective modules for the specialization “Productive Livestock Biology”

- a) Angewandte Anatomie und klinische Untersuchungsmethoden der Nutztiere, 6 credits or 7.5 credits
- b) Food Chain Eier und Geflügelfleisch, 6 credits
- c) Food Chain Milch, 6 credits
- d) Futterwertbeurteilung, Futtermittelmikrobiologie und –mikroskopie, 6 credits
- e) Qualität und Qualitätsbeeinflussung tierischer Produkte, 6 credits
- f) Spezielle Ernährung der Nichtwiederkäuer, 6 credits
- g) Spezielle Ernährung der Nichtwiederkäuer, 6 credits or 7.5 credits
- h) Stoffflüsse im System Tier-Umwelt, 6 credits
- i) Tierkrankheiten und -gesundheitslehre, 6 credits
- j) Tier-Umwelt-Interaktionen, 6 credits
- k) Verhaltensbiologie, 6 credits or 7.5 credits

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## Annex 10

### List of semi-elective modules for the specialization “Agricultural Engineering”

- a) Ackerschlepper und selbstfahrende Landmaschinen, 6 credits
- b) Automatisierung landwirtschaftlicher Verfahren, 6 credits
- c) Bauen und Stallklima, 6 credits
- d) Bewässerungstechnik für Nahrungs- und Energiepflanzen, 6 credits
- e) Biomasse als Energieträger, 6 credits
- f) Erneuerbare Energieträger, 6 credits
- g) Grundlagen der Milcherzeugung, 6 credits
- h) Landschaftspflege und Kommunaltechnik, 6 credits
- i) Methoden des Precision Livestock Farming, 6 credits
- j) Precision Farming, 6 credits (English)
- k) Umweltschutz und Standortsicherung, 6 credits

### List of semi-elective modules for the specialization “Soil Sciences”

- a) Boden- und Vegetationskartierung, 6 credits
- b) Bodengenetik, -systematik und –verbreitung, 6 credits
- c) Bodenmanagement und Bodensanierung, 6 credits
- d) Bodenschutz und Bodenrecht, 6 credits
- e) Bodenwissenschaftliches Experiment, 6 credits or 7.5 credits
- f) Ecotoxicology and Environmental Analytics, 6 credits (English)
- g) Environmental Pollution and Soil Organisms, 6 credits or 7.5 credits (English)
- h) Große pedologische Geländeübung, 6 credits
- i) Klimatologie und Edaphologie, 6 credits
- j) Landschafts- und Standortkundliche Übungen im Gelände, 6 credits
- k) Molecular Soil Ecology, 6 credits or 7.5 credits (English)
- l) Naturschutz und Naturschutzmanagement, 6 credits
- m) Ressourcenschutz und Landrehabilitation in den Tropen und Subtropen, 6 credits
- n) Spatial Data Analysis with GIS, 6 credits or 7.5 credits (English)
- o) Vegetation Mitteleuropas I, 6 credits
- p) Vegetation Mitteleuropas II, 6 credits

### List of semi-elective modules for the specialization “Plant Production Systems”

- a) Advanced Statistical Methods for Metric and Categorical Data, 6 credits (English)
- b) Biological Pest Control, 6 credits (English)
- c) Breeding Methodology, 6 credits (English)
- d) Entomology, 6 credits (English)
- e) Ertragsbildung und Produktionstechnik, 6 credits
- f) From Genes to Transgenic Plants, 6 credits (English)
- g) Frucht- und Nacherntephysiologie, 6 credits
- h) Funktion und Management von Landmaschinen in der Pflanzenproduktion, 6 credits
- i) Graslandwissenschaften, 6 credits
- j) Interaktionen Unkraut-Kulturpflanzen, 6 credits
- k) Landwirtschaftliches Versuchswesen, 6 credits
- l) Molecular Aspects of Plant Protection, 6 credits (English)
- m) Plant Genetic Resources, 6 credits (English)
- n) Plant Protection in Organic Farming, 6 credits
- o) Plant Symbioses for Nutrient Acquisition, 6 credits (English)
- p) Population and Quantitative Genetics, 6 credits (English)
- q) Precision Farming, 6 credits
- r) Rasentechnologie, 6 credits
- s) Ressourcenschutz und Landrehabilitation in den Tropen und Subtropen, 6 credits
- t) Saatguttechnologie, 6 credits
- u) Selection Theory, 6 credits (English)

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- v) Soil Fertility and Fertilisation in Organic Farming, 6 credits (English)
- w) Stressphysiologie, 6 credits
- x) Übungen zur Pflanzenernährung, 6 credits
- y) Weltwirtschaftspflanzen und Weidewirtschaft in den Tropen und Subtropen, 6 credits

**List of semi-elective modules for the specialization “Animal Sciences”**

- a) Angewandte Anatomie und klinische Untersuchungsmethoden der Nutztiere, 6 credits or 7.5 credits
- b) Bienen, 6 credits or 7.5 credits
- c) Food Chain Eier und Geflügelfleisch, 6 credits
- d) Food Chain Milch, 6 credits
- e) Futtermanagement - Technologie, Konservierung und Qualitätssicherung, 6 credits
- f) Methoden der Nutztierethologie, 6 credits
- g) Methoden zur Analytik und Qualitätsbeurteilung von Futtermitteln, 6 credits or 7.5 credits
- h) Spezielle Ernährung der Nichtwiederkäuer, 6 credits or 7.5 credits
- i) Spezielle Ernährung der Nichtwiederkäuer, 6 credits
- j) Spezielle Tierhygiene, 6 credits or 7.5 credits
- k) Verhaltensbiologie, 6 credits or 7.5 credits
- l) Verhaltensphysiologie und Immunobiologie, 6 credits or 7.5 credits
- m) Wissenschaftliche Fragestellungen der Umwelt- und Tierhygiene (Labor- oder Projektarbeit), 6 credits
- n) Zuchtplanung und Zuchtpraxis in den Nutztierwissenschaften, 6 credits



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## **Annex 11**

### **List of semi-elective modules for the specialization “Agricultural Economics” in the Master’s degree program “Agricultural Sciences”**

- a) Advanced Policy Analysis Modelling, 6 credits
- b) Agricultural Economics Seminar, 6 credits
- c) Farm and Project Evaluation, 6 credits
- d) Food and Nutrition Security, 6 credits
- e) Gender, Nutrition, and Right to Food, 6 credits
- f) International Food and Agricultural Trade, 6 credits
- g) Knowledge and Innovation Management, 6 credits
- h) Land Use Economics, 6 credits
- i) Organisational Development, 6 credits (English)
- j) Policy Processes in Agriculture and Natural Resource Management, 6 credits
- k) Poverty and Development Strategies, 6 credits
- l) Quantitative Methods in Economics, 6 credits
- m) Qualitative Research Methods in Rural Development Studies, 6 credits

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## **Annex 12**

### **List of the semi-elective modules in the degree program “Agribusiness”**

- a) ABWL 1: Management, 6 credits
- b) Ackerschlepper und selbstfahrende Landmaschinen, 6 credits
- c) Agrarrecht, 6 credits
- d) Erneuerbare Energieträger (if not already chosen as a semi-elective module dependent on previous education), 6 credits
- e) Food Chain Milch, 6 credits
- f) Formen und Evolution von Agrarwirtschaften im regionalen und internationalen Vergleich, 6 credits
- g) Funktion und Management von Landmaschinen in der Pflanzenproduktion, 6 credits
- h) International Food and Agricultural Trade, 6 credits (English)
- i) Qualität und Qualitätsbeeinflussung tierischer Produkte, 6 credits
- j) Produktqualität und Qualität der Produktion pflanzlicher Rohstoffe, 6 credits
- k) Poverty and Development Strategies, 6 credits (English)
- l) Rural Development Policy and Institutions, 6 credits or 7.5 credits (English)
- m) Sozialwissenschaften, 6 credits
- n) Technische Verfahren in der Nutztierhaltung, 6 credits
- o) Grundlagenmodul Umweltmanagement, 6 credits
- p) Grundlagenmodul Ethikmanagement, 6 credits
- q) Verbraucherpolitik, 6 credits

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## Annex 13

### List of recommended elective modules for the degree program “Agricultural Sciences in the Tropics and Subtropics”

- a) Agricultural and Food Policy, 6 credits
- b) Biodiversity, Plant and Animal Genetic Resources, 6 credits or 7.5 credits
- c) Crop Production Affecting the Hydrological Cycle, 6 credits or 7.5 credits
- d) Ecophysiology of Crops in the Tropics and Subtropics, 6 credits or 7.5 credits
- e) Ethics of Food and Nutrition Security, 6 credits
- f) Experimental Aquaculture, 6 credits
- g) Farm and Project Evaluation, 6 credits
- h) Fertilisation and Applied Soil Chemistry in the Tropics and Subtropics, 6 credits
- i) Food and Nutrition Security, 6 credits
- j) Genetic Resources and Animal Husbandry Systems, 6 credits
- k) Integrated Agricultural Production Systems, 6 credits or 7.5 credits
- l) International Food and Agricultural Trade, 6 credits
- m) Livestock Breeding Programmes- Planning Procedure and International Case Studies, 6 credits or 7.5 credits
- n) Organic Farming in the Tropics and Subtropics, 6 credits
- o) Physiological and Ecological Aspects of Livestock Nutrition in the Tropics and Subtropics, 6 credits
- p) Plant Breeding and Seed Sciences in the Tropics and Subtropics, 6 credits
- q) Postharvest Technology and Food Quality, 6 credits or 7.5 credits
- r) Promotion of Livestock in Tropical Environments, 6 credits or 7.5 credits
- s) Quantitative Methods in Animal Nutrition and Vegetation Sciences, 6 credits or 7.5 credits
- t) Quantitative Methods in Economics, 6 credits
- u) Renewable Energy for Rural Areas, 6 credits or 7.5 credits
- v) Rural Communication and Extension, 6 credits
- w) Rural Development Policy and Institutions, 6 credits or 7.5 credits
- x) Social Dimensions of Agricultural Development, 6 credits
- y) Tropical Soils and Land Evaluation, 6 credits

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## **Annex 14**

### **List of the semi-elective modules in the majors for the degree program “Crop Sciences”**

Semi-elective modules for the major “Crop Physiology and Nutrition”

- a) Crop - Environment Interactions, 6 credits
- b) Plant Quality, 6 credits
- c) Exercises in Plant Nutrition, 6 credits
- d) Plant Symbioses for Nutrient Acquisition, 6 credits
- e) Rhizosphere Processes - Nutrient Acquisition Stress Adaptations of Higher Plants, 6 credits

Semi-elective modules for the major “Plant Breeding and Seed Science”

- a) Breeding Methodology, 6 credits
- b) Planning of Breeding Programmes, 6 credits
- c) Population and Quantitative Genetics, 6 credits
- d) Seed Research, 6 credits
- e) Selection Theory, 6 credits

Semi-elective modules for the major “Crop Protection”

- a) Biological Pest Control, 6 credits
- b) Entomology, 6 credits
- c) Molecular Aspects of Plant Protection, 6 credits
- d) Information Technologies and Expert Systems in Plant Protection, 6 credits
- e) Phytopathology, 6 credits

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## **Annex 15**

### **List of semi-elective modules in the Master's degree program "Environmental Protection and Agricultural Food Production"**

- a) Air Pollution and Air Pollution Control, 6 credits
- b) Biodiversity, Plant and Animal Genetic Resources, 6 credits or 7.5 credits
- c) Ecology and Agroecosystems, 6 credits
- d) Environmental Pollution and Soil Organisms, 6 credits or 7.5 credits
- e) Food Safety and Quality Chains, 6 credits
- f) Gender, Nutrition, and Right to Food, 6 credits
- g) Global Change Issues, 6 credits
- h) Global Nutrition, 6 credits or 7.5 credits
- i) Inland Water Ecosystems, 6 credits
- j) Post-Harvest Technology of Food and Bio-Based Products, 6 credits or 7.5 credits
- k) Remote Sensing, 6 credits
- l) Renewable Energy for Rural Areas, 6 credits or 7.5 credits
- m) Waste Management and Waste Techniques, 6 credits
- n) Water and Soil Management in Agricultural Production, 6 credits or 7.5 credits

This is a courtesy translation. Only the German version is legally binding. If there are any differences in the wording, interpretation, or meaning of the German and English versions, the German version shall prevail.

## Annex 16

### **Specializations with compulsory and semi-elective modules in Package 2 that are offered by the University of Hohenheim in the degree program “Environmental Science - Soil, Water and Biodiversity”**

#### a) Environmental Impacts

##### *Compulsory modules*

Biodiversity, Plant and Animal Genetic Resources, 6 credits or 7.5 credits  
Environmental Science Project, 6 credits or 7.5 credits  
Spatial Data Analysis with GIS, 6 credits or 7.5 credits

##### *Semi-elective modules*

Environmental Pollution and Soil Organisms, 6 credits or 7.5 credits  
Remote Sensing of the Earth System

#### b) Environmental Management

##### *Compulsory modules*

Agricultural and Food Policy, 6 credits  
Spatial Data Analysis with GIS, 6 credits or 7.5 credits

##### *Semi-elective modules*

Environmental Science Project, 6 credits or 7.5 credits  
Precision Farming  
Renewable Energy for Rural Areas, 6 credits or 7.5 credits  
Exercises in Biological Pest Control, 6 credits or 7.5 credits

#### c) Climate Change

##### *Compulsory modules*

Climate Change Impacts, Adaptation and Mitigation, 15 credits  
Spatial Data Analysis with GIS, 6 credits or 7.5 credits

##### *Semi-elective modules*

Biodiversity, Plant and Animal Genetic Resources, 6 credits or 7.5 credits  
Environmental Science Project, 6 credits or 7.5 credits  
Renewable Energy for Rural Areas, 6 credits or 7.5 credits  
Energy and Water Regime at the Land Surface  
Climate History and Evolution of the Earth System  
Remote Sensing of the Earth System  
Measurement, Modelling, and Data Assimilation I

#### d) Soil Resources and Land Use

##### *Compulsory modules*

Fertilisation and Applied Soil Chemistry in the Tropics and Subtropics, 6 credits  
Spatial Data Analysis with GIS, 6 credits or 7.5 credits

##### *Semi-elective modules*

Conservation Agriculture, 6 credits  
Environmental Pollution and Soil Organisms, 6 credits or 7.5 credits  
Interdisciplinary Advanced Soil Science Project, 6 credits  
Project in Soil Science, 6 credits or 7.5 credits

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## Annex 17

### Specializations with semi-elective modules in Package 3 that are offered by the University of Hohenheim in the degree program “Environmental Science - Soil, Water and Biodiversity”

#### a) Environmental Impacts

##### *Semi-elective modules*

Agricultural Production and Residues, 6 credits  
Air Pollution and Air Pollution Control, 6 credits  
Ecotoxicology and Environmental Analytics, 6 credits  
Environmental Microbiology, Parasitology and Microbial Ecology, 6 credits  
Global Change Issues, 6 credits  
Inland Water Ecosystems, 6 credits  
Matter Cycling in Agroecosystems, 6 credits  
Water and Soil Management in Agricultural Production, 6 credits  
Waste Management and Waste Techniques, 6 credits

#### b) Environmental Management

##### *Semi-elective modules*

Economics and Environmental Policy, 6 credits  
Farm System Modelling, 6 credits  
Farming and Rural Systems Development, 6 credits  
Inland Water Ecosystems, 6 credits  
Poverty and Development Strategies, 6 credits  
Water and Soil Management in Agricultural Production, 6 credits  
Waste Management and Waste Techniques, 6 credits  
Climate Change Impacts, Adaptation and Mitigation, 15 credits

#### c) Climate Change

##### *Semi-elective modules*

Air Pollution and Air Pollution Control, 6 credits  
Crop Production Affecting the Hydrological Cycle, 6 credits  
Economics and Environmental Policy, 6 credits  
Global Change Issues, 6 credits  
Inland Water Ecosystems, 6 credits  
Remote Sensing, 6 credits  
Water and Soil Management in Agricultural Production, 6 credits  
Climate Change Impacts, Adaptation and Mitigation, 15 credits

#### d) Soil Resources and Land Use

##### *Semi-elective modules*

Molecular Soil Ecology, 6 credits  
Ecotoxicology and Environmental Analytics, 6 credits  
Fertilisation and Applied Soil Chemistry in the Tropics and Subtropics, 6 credits  
Land Use Economics, 6 credits  
Project in Soil Science, 6 credits  
Soil Fertility and Fertilisation in Organic Farming, 6 credits  
Tropical Soils and Land Evaluation, 6 credits  
Water and Soil Management in Agricultural Production, 6 credits  
Climate Change Impacts, Adaptation and Mitigation, 15 credits

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## Annex 18

### List of semi-elective modules in the Master's program "Biobased Products and Bioenergy"

- a) Ackerbausysteme, 6 credits
- b) Automatisierung landwirtschaftlicher Verfahren, 6 credits
- c) Bewässerung von Nahrungs- und Energiepflanzen, 6 credits
- d) Advanced Statistical Methods for Metric and Categorical Data, 6 credits (English)
- e) Crop Physiology, 6 credits (English)
- f) Ecology and Agroecosystems, 6 credits
- g) Ecophysiology of Crops in the Tropics and Subtropics, 6 credits or 7.5 credits
- h) Energie- und Wasserhaushalt, 6 credits
- i) Erneuerbare Energieträger, 6 credits
- j) Mathematische Modelle in den Life Sciences, 6 credits
- k) Modellierung von Agrarökosystemen, 6 credits
- l) Physik des Erdsystems, 6 credits
- m) Post-Harvest Technology of Food and Bio-Based Products, 6 credits or 7.5 credits
- n) Produktqualität und Qualität der Produktion pflanzlicher Rohstoffe, 6 credits
- o) Renewable Energy for Rural Areas, 6 credits (English) or 7.5 credits
- p) Ressourcenschutz und Landrehabilitation in den Tropen und Subtropen, 6 credits
- q) Stoffdynamik in Agrarökosystemen, 6 credits
- r) Umweltschutz und Standortsicherung, 6 credits