



UNIVERSITÄT  
HOHENHEIM

# **Reading edition of the Examination Regulations for the Master's Program Food Systems in the Faculty of Natural Sciences at the University of Hohenheim**

**This translation is not legally binding.**

Legally non-binding translation of the Examination Regulations for the Master's Degree Program Food Systems in the Faculty of Natural Sciences from 12 february 2019 (University of Hohenheim Official Notification No. 1206), including changes of the 1<sup>st</sup> statutes for changing the examination regulations from 18 november 2020 (University of Hohenheim Official Notification No. 1300), including changes of the 2<sup>nd</sup> statutes for changing the examination regulations from 19 April 2021 (University of Hohenheim Official Notification No. 1329), including changes of the 3<sup>rd</sup> statues for changing the examination regulations from 23 July 2021 (University of Hohenheim Official Notification No.1357), including changes of the 4<sup>th</sup> statutes for changing the examination regulations from 3 August 2022 (University of Hohenheim Official Notification No.1416) and including changes of the 5<sup>th</sup> statutes for changing the examination regulations from 9 August 2023 (University of Hohenheim Official Notification No. 1466).

**University of Hohenheim Examination Regulations for the Master's program in  
Food Systems at the Faculty of Natural Sciences**

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## **Part 1 General Provisions**

### **Section 1:**

#### **§ 1 Area of Applicability**

- (1) These examination regulations for the Master's program in Food Systems at the Faculty of Natural Sciences at the University of Hohenheim.
- (2) Part 1 of the examination regulations contains general provisions that govern matters relevant to multiple degree programs. Subject-specific requirements for the respective degree program, such as objectives, contents, structure, and requirements are set down in the program-specific regulations in Part 2 and in the module catalogue excerpt.
- (3) The examination regulations are supplemented by a module catalogue excerpt. This includes all relevant data of the respective modules from the module catalogue (status of reporting date).

#### **§ 2 Aim of the Degree Program, Purpose of the Master's Examination**

- (1) The Master's degree leads to a further professionally qualifying academic degree, building on a first degree qualifying the holder to enter a profession.
- (2) In the consecutive Master's program, the scientific qualifications acquired in the Bachelor's program are to be further deepened, broadened, expanded, or supplemented. The aim of the program is to enable students to independently apply scientific knowledge and methods and to be able to assess their significance and scope for solving complex scientific and social problems.
- (3) By successfully completing the Master's examination, graduates prove that they have the necessary technical and interdisciplinary knowledge, skills, and methods in accordance with the German Qualifications Framework for Higher Education Degrees.

#### **§ 3 Academic Degree**

Upon passing the Master's examination, the academic degree "Master of Science" (abbreviation: M.Sc.) is awarded for the Master's program Food Systems.

#### **§ 4 Standard Period of Study**

- (1) The standard period of study is four semesters.
- (2) The Master's program is designed in terms of content, level, and requirements in such a way that it can be completed within the standard period of study.

#### **§ 5 Modularization, Credits (ECTS)**

- (1) All parts of the degree program are modular. The individual modules comprise thematically and chronologically well-rounded, self-contained study units with credit points. Modules impart an independent, precisely defined competence related to the overall program objectives.
- (2) According to Part 2 of these examination regulations, the Master's program contains compulsory, semi-elective, and elective modules. The Master's thesis and external internships are each included in separate modules. Additional modules are voluntary courses that are not required for the successful completion of the Master's examination and are not included in the overall grade of the Master's examination.
- (3) The workload for completing modules is indicated by the number of credit points assigned to the module. The standards for allocating credit points correspond to the European Credit Transfer System (ECTS).
- (4) One ECTS credit corresponds to a workload of about 30 hours. The ECTS credits include the time spent on attendance, preparation and follow-up, exam preparation, and the exam, including the Master's thesis and, if applicable, internships. The ECTS credits indicate the quantitative importance of coursework and examinations. Individual success is evaluated with grades.
- (5) To receive ECTS credits, students must successfully complete the respective module. A total of 120 ECTS credits must be earned in order to successfully complete the Master's program.
- (6) Typically, the ECTS credits should be distributed evenly so that an average of 30 ECTS credits are achieved per semester.
- (7) Up to 25% of the modules can be assessed as "passed" or "failed" without a specific grade.

- (8) The detailed module description is given in the module catalog, which contains the following binding information:
  - a) Modules and associated ECTS credits
  - b) Requirements for receiving the ECTS credits
  - c) Type, scope, and duration of the examination
  - d) Requirements for being admitted to the module examinations.

## **§ 6 Deadlines**

- (1) The program is designed in such a way that students can pass the Master's examination by the end of the standard period of study of four semesters.
- (2) If the Master's examination has not been passed by the end of the seventh semester, the right to be admitted to examinations expires unless the candidate is not responsible for exceeding the deadline. The decision on an extension of the deadline and on exceptions to the deadline regulation is made by the examination committee at the request of the respective student. The request must typically be submitted by six weeks before the deadline in writing to the Examinations Office, which forwards it to the examination committee.

## **Section 2: Master's Examination**

### **Subsection 1: General Provisions**

## **§ 7 Examination Committee**

- (1) An examination committee is formed for the Master's program Food Systems. The examination committee may be responsible for one or more degree programs.
- (2) The examination committee consists of five voting members of the full-time scientific staff of the Faculty of Natural Sciences, including at least three professorial members. The term of office is three years. The examination committee also includes a student member in an advisory function. The student's term of office is one year.
- (3) The chairperson, their deputy, the other members of the examination committee, and their deputies are elected by the Faculty Council of the Faculty of Natural Sciences. Only professorial members can be elected as chairperson and deputy chairperson. Reappointment is permitted.
- (4) The examination committee is responsible for the examination-related tasks assigned by these examination regulations. In particular, the examination committee ensures compliance with the provisions of these examination regulations and makes decisions on examination matters. It also decides on the recognition of previous periods of study as well as on coursework and examinations. The committee regularly reports to the Faculty of Natural Sciences on the development of examination and study times, including the times needed for the Master's theses and the distribution of module and overall grades. It is responsible for making suggestions for reforming the study and examination regulations and for module descriptions. The members of the examination committee have the right to attend examinations. The daily business of the examination committee is conducted by the person chairing the committee.
- (5) The examination committee decides by a simple majority of votes; in the event of a tie, the chairperson casts the deciding vote. The examination committee has a quorum if at least two other members with voting rights, including a professorial member, are present in addition to the chairperson. Members may also be involved in a meeting of the examination committee via video.
- (6) As a rule, the committee meets at least once per calendar year, whereby extraordinary meetings may be scheduled in addition to the regular meetings due to circumstances requiring a decision. In suitable cases, in particular if the question to be answered can be answered with yes or no, a resolution by circular letter or email may be considered.
- (7) The examination committee may delegate individual tasks to the person chairing the meeting. In urgent matters, the completion of which cannot be postponed until a meeting of the examination committee, the chairperson shall decide in its place. The reasons for the urgent decision and the manner in which the matter is to be dealt with must be communicated to the members of the examination committee at the latest at next meeting of the examination committee.
- (8) The meetings of the examination committee are not open to the public and can be held as a video conference. The members of the examination committee and their deputies are obligated to maintain professional secrecy. If they are not employed in public service, the chairperson is must obligate them to maintain secrecy.

- (9) The examination committee will notify those concerned in writing of any decisions of the examination committee which are likely to be detrimental to the candidate. Reasons must be given for these decisions and information on the right to appeal must be included.
- (10) The examination committee is supported in its duties by the Examinations Office.
- (11) The Procedural Order for Committees and Commissions at the University of Hohenheim is applicable in the respectively valid version.

#### **§ 8 Examiners and Observers**

- (1) Only professors, university lecturers, privatdozenten, junior professors, contract lecturers, and those academic staff members who have the authority to conduct examinations in accordance with Sec. 52 (1) sentence 6 half-sentence 2 LHG are entitled to examine.
- (2) Only persons who hold at least a degree corresponding or equivalent to the degree being sought may be appointed to observe the exam.
- (3) The examinations are the responsibility of the lecturers in the respective module. The examiner appoints the observer. If the examiner is prevented from attending for good cause, the Dean of Studies appoints the examiner and observer. The module supervisors shall ensure that the names of the examiners are announced in good time by means of a notice board or suitable electronic systems. In addition, all persons who meet the requirements of an examiner as referred to in Sec. 8(1) may be called upon by the module supervisor to conduct the examinations. In cases of doubt, the respective examination committee will decide.
- (4) There is no legal entitlement to be assigned to certain examiners. The examiners are obligated to carry out the module examination by the specified deadline unless they are prevented from doing so by valid reasons.

#### **§ 9 Recognition and Crediting of Competences**

- (1) Periods of study, coursework, and examinations as well as academic degrees which were completed in a degree program 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 upon request insofar as competences obtained are not significantly different to those which they are to replace. There is considered to be no significant difference if the quality, level, learning outcomes, scope/workload, and profile essentially correspond to the requirements of the Hohenheim degree program and if coursework and examinations correspond in all essential elements, i.e. in terms of content and scope of the exam-relevant material as well as in terms of type and duration of the exam. Depending on the type and scope of recognized coursework and examinations, the examination committee decides on recognizing study periods. As a rule, a semester can be recognized if at least 30 ECTS credits are recognized.
- (2) Knowledge and skills acquired outside the higher education system shall be recognized if, at the time of recognition, the requirements for admission to higher education are met, the knowledge and skills to be recognized for the degree program are equivalent in content and level to the coursework and examinations which they are intended to replace, and the criteria for recognition have been verified as part of an accreditation process. Knowledge and skills acquired outside the university system may only be credited up to a maximum of 50 percent of the degree program. The examination committee may require a subject placement exam.
- (3) Recognition is granted upon written request. It is up to the person requesting recognition to provide the necessary information on the coursework or examination that is to be recognized. Recognition is only possible as long as the coursework and examination that are to be replaced have not yet been taken in the degree program at the University of Hohenheim at the time of application.
- (4) Students who are newly enrolled in the program must apply for recognition at the same time as admission or immediately after admission to the program, but at the latest within three months of the beginning of the semester for which admission is granted. If the request is not received by the Examinations Office together with the required documents by the deadline, students lose their right to have the work recognized.
- (5) The examination committee is responsible for recognition and crediting. In determining whether there is a significant difference in competences, the responsible representatives of the respective fields are to be heard. The burden of proof that an application does not meet the requirements for recognition lies with the examination committee.
- (6) If coursework and examinations are recognized, the grades, insofar as the grading systems are comparable, are to be adopted in accordance with these examination regulations and included in the calculation of the module grades and the overall grade.

- (7) If the grading system is not comparable, the grades of the other university are calculated according to the "Bavarian formula."

$$x = \frac{N_{max} - N_d}{N_{max} - N_{min}} \cdot 3 + 1$$

with the converted grade  $x$ , best possible grade  $N_{max}$ , lowest passing grade  $N_{min}$ , and grade received  $N_d$  or according to the principles of the ECTS Users' Guide in its currently valid version. Grades are calculated to exactly one decimal place after the decimal point in accordance with Sec. 21; all other places are deleted without rounding.

- (8) If a conversion cannot take place or if no grades are available, the remark "passed" is added. The ECTS credits of the Hohenheim work which is being replaced is used for the recognized coursework and examinations. These ECTS credits are included in the calculation of the overall grade in accordance with these examination regulations. When work for a module is recognized, this is indicated in the transcript of records.
- (9) The agreements and conventions of the Federal Republic of Germany with other countries on equivalencies in higher education (equivalence agreements) as well as arrangements within the framework of university partnerships must be observed.

### § 10 Simplified Recognition of Coursework and Examinations

- (1) The individual reviews described in Sec. 9 may be waived for coursework and examinations completed at a foreign partner university with which the university maintains an exchange program.
- (2) Students can also request recognition of module examinations to be taken abroad prior to the start of the stay abroad if they first have an advising session.

### § 11 Language

- (1) The language of instruction and examination is English.
- (2) Individual modules in the elective area may also be offered in German, either in whole or in part, as long as there is a sufficient number of modules in English to enable students to complete the program completely in English.

## **Subsection 2: Completing Modules**

### § 12 Module Examinations (Graded Assessments)

- (1) The Master's examination consists of module examinations including the Master's thesis. Module examinations are taken as part of studies and conclude the respective module. Each module is usually completed with only one examination. Only in justified exceptional cases can the module examination consist of more than one graded assessment.
- (2) Module examinations should always relate to the competence objectives of the module. The aim of this examination is to show that the contents and methods taught in the module have been mastered in large part and that the acquired competences can be applied.
- (3) Module examinations can be taken
- a) in written form such as written examinations, reports, term papers or essays, minutes, case studies (answering a question in the form of a written paper and/or presentation), project reports including the Master's thesis;
  - b) in oral form such as graded discussions, reports, presentations, and similar oral tasks such as pitches (short oral presentations), participation, or discussions.

The module examinations are marked with a grade according to § 21 or with "passed" or "failed."

- (4) Details, in particular the composition of the module examinations, the form of examination, how many times it can be re-taken, and weighting as well as any planned sequence are stated in the module catalogue excerpt.

### § 13 Coursework

- (1) In addition to module examinations, coursework may also be required for the completion of the respective module. Coursework is used to assess individual learning progress and usually takes place during the semester. It can be completed as
  - a) written work,
  - b) oral work,
  - c) or work of another other kind.

Coursework can be evaluated with a grade according to Sec. 21; the evaluation of the coursework is not taken into account when calculating the module grades.

- (2) In justified exceptional cases, coursework may be a prerequisite for admission to module examinations. Mandatory participation of students in courses may be required for excursions, language courses, practical training, practical exercises, and comparable courses. Whether and which prerequisites are required for the module examination is described in the module catalogue excerpt; in particular, the type, scope, and duration are also specified. Secs. 33 and 35 shall apply mutatis mutandis to absences for good cause within the scope regulated in the module catalogue excerpt.

### § 14 Written Examinations

- (1) In a written examination, the candidates should demonstrate that they are able to recognize the interrelationships of the examination field within a limited time and with limited aids, to analyze them, and to apply them to concrete questions.
- (2) The duration of the tests is specified in the module catalogue excerpt and should normally be a minimum of 60 minutes and a maximum of 120 minutes.
- (3) In appropriate cases, multiple-choice questions are permissible.
  - a) The examination tasks, questions, possible answers, points, and any weighting factors for the individual examination tasks are determined by the examiner. It is permissible for someone other than the examiner to grade the results. The examination tasks must be tailored to the competences taught in the module and must enable reliable examination results.
  - b) For each question, three or four possible answers are listed, only one of which is correct. Points are awarded for answering a question if only the correct answer option is selected. Points are not deducted for incorrect responses.
  - c) Written examinations with multiple-choice tasks are passed if the absolute or relative passing grade is reached or exceeded. The absolute passing grade is reached when the examinee has achieved at least 54% of the points to be awarded. If the average number of points achieved by all students in the exam is below 60% of the attainable score, the relative passing grade is determined as follows: First of all, the average of the points achieved by the students participating in the examination date is to be calculated. From this average score, 10 % shall be calculated and deducted. The resulting score is the relative passing grade. The range between the number of points attainable and the minimum number of points for passing the written examination are then divided linearly among the grades in accordance with Sec. 21(2).
  - d) Before the result of the examination is determined, the multiple-choice questions must be checked by the examiner on the basis of the results to see whether the questions contained errors. Erroneous examination tasks may not be taken into account when determining the achievable score. However, points are awarded for correct answers to erroneous questions. If the percentage of erroneous multiple-choice tasks in the achievable score of the exam is more than 20 percent, the students shall be given the opportunity to repeat the exam. The details of the repeat examination are regulated by the examination committee.
- (4) Written examinations can be conducted as software or computer-based examinations.
  - a) These are exams similar to written exams, in which, for example, open answer tasks and multiple-choice tasks, including matching and fill-in-the-blank tasks, must be answered. The answers are transmitted electronically and, when possible, evaluated automatically. The contents of the examination are to be prepared by an examiner.
  - b) Prior to the examination, the examiner must ensure that the electronic data can be clearly identified and uniquely and permanently assigned to the students. Appropriate technical support must be used to ensure that exams that are software-based or computer-supported can be carried out without any technical problems. The exam must be carried out in the presence of a person competent in the subject area. Students must be able to work on all questions for the entire exam duration.
  - c) In all other respects, the provisions in Sec. 14(1-3) shall apply mutatis mutandis to software-based or computer-supported tests.



## **§ 15 Papers**

- (1) In written work such as term papers or case studies, students should demonstrate their ability to work on selected issues using specialist literature in a limited time.
- (2) The examiner will inform students of the details of the work referred to in Sec. 15(1). The examiner is responsible for grading; reasonable time is to be given for working on the papers and deadlines must be set.
- (3) Written work can take the form of group work if the work of the individuals can be clearly defined and assessed.

## **§ 16 Oral Module Examinations**

- (1) In an oral module examination, the students should demonstrate that they are able to recognize the interrelationships of the examination field, to analyze them, and to apply them to concrete questions. The oral examination is also intended to establish that the students have acquired the necessary skills and achieved the learning objectives.
- (2) Oral module examinations are graded discussions, reports, presentations, and similar oral tasks such as pitches, participation, or discussions.
- (3) Examination discussions are usually held in front of at least one examiner in the presence of an observer and take place either in a group or as an individual examination. In group work, the work of the individuals must be able to be clearly defined and assessed.
- (4) Oral module examinations can also be held as collegial examinations. In the case of collegial examinations, the grade is determined by the examiners in a joint final discussion.
- (5) The duration of the examination discussions as well as the other forms of oral module examinations is specified in the module catalogue excerpt.
- (6) Minutes are taken of the main items and results of the examination discussions.
- (7) The results of the examination discussion should be made known to the candidates following the oral examination.
- (8) Depending on the space available, university members may listen in on oral examinations unless the candidate objects. Persons who will take the same examination in the same examination period are excluded from sitting in. However, no one may sit in on the consultation and notification of the examination results to the candidates. The decision as to who is allowed to listen is made by the examiner.

## **§ 17 Other Forms of Module Examinations**

- (1) Other types of module examinations are controlled module examinations that can be assessed according to the same standards. These are in particular thesis papers, gradable internships and laboratory courses, internship and lab reports, research, and contributions.
- (2) The specific descriptions of these other types of module examinations by module as well as the scope in terms of time can be found in the module catalogue excerpt by module.
- (3) For written module examinations of any other kind, Secs. 14 and 15 apply *mutatis mutandis*. For oral module examinations of other types, Sec. 16 applies *mutatis mutandis*.

## **§ 18 Exam Components**

- (1) Examination components are carried out in a uniform examination procedure and there is a uniform assessment as part of the module examination.
- (2) The weighting of the examination components can be seen in the module catalogue excerpt by module.
- (3) When determining the grades of examinations, some exam components can be considered that are completed during the semester (in particular presentations and seminar papers). A maximum of 50% of the module grade may be made up of these components. Further details are regulated in each module description in the module catalogue excerpt.
- (4) There should be no examinations in which parts of the examination are conducted as part of an independent examination procedure (exam components).

## **§ 19 Registering and Canceling Registration**

- (1) Students must register for module examinations. The following applies for this:
  - a) The module examinations are usually held within examination periods or as block examinations outside the examination periods. Two examination periods are assigned for each semester: The first takes place immediately following the lecture period, the second is

generally at the end of the lecture-free period. The examination periods and the dates for the examinations or block examinations are determined by the Examinations Office in consultation with the examination committee. The Examinations Office will announce the dates and times. Students are responsible for keeping themselves informed about the dates.

- b) Students must register for the module examinations by the deadline set and announced by the Examinations Office (registration deadline) via the online portal of the University of Hohenheim. Students are responsible for keeping themselves informed about the registration deadlines. To avoid undue hardship, the University of Hohenheim's Examinations Office can forgo electronic registration and permit written registration. It must be specified whether the examination is to be taken in the first or second examination period. When registering, the student must provide evidence of having completed the coursework required for the respective module examinations in accordance with Sec. 13. After the end of the registration period, the registration is binding.
  - c) Once registered, students will be deemed to have been admitted to the examinations of their choice even if they are not notified of this explicitly in writing. Once they have registered in the electronic system, they must create and keep a registration certificate in case it is needed at a later date as proof. If they are unable to register for exams or to create a registration certificate, they can receive one at the Examinations Office. It can also be provided electronically.
  - d) Students can cancel all module examinations without giving reasons until seven calendar days before the examination date. Registration cancellation must be declared to the Examinations Office in writing or - if the Examinations Office provides access for this purpose - via the online portal of the University of Hohenheim. The date the Examinations Office receives the cancellation is decisive for determining compliance with the deadline.
  - e) Participation without proper registration will result in the examination being considered invalid.
- (2) For coursework, the following applies:
- a) In principle, the person responsible for the module is responsible for organizing the place and time of the coursework.
  - b) The student registers with the person responsible for the module or - if the Examinations Office provides access for this purpose - via the online portal of the University of Hohenheim.

## **§ 20 Admission to Courses and Module Examinations**

- (1) According to Sec. 30(5) LHG, participation in individual courses may be restricted. The person responsible for the module decides which students may participate from among the students who registered by the deadline and who meet the requirements for the course, provided that it is not possible to reduce the number of students by offering other or additional courses. The selection is made taking into account the students' progress in their studies with an aim to avoid undue hardship. The result will be announced to the students in a timely manner.
- (2) Students may be admitted to module examinations only if they fulfill the following prerequisites:
  - a) enrolled at the University of Hohenheim in the Master's program Food Systems,
  - b) have not lost the right to take examinations in the Master's program or in a related program,
  - c) have not failed the final attempt at the examination in the respective module,
  - d) have properly registered in accordance with Sec. 19, and
  - e) fulfill any admission requirements for the admission to examinations as set down in the module catalogue excerpt.
- (3) Admission shall be refused if the conditions set out in paragraphs 2 a) to e) are not fulfilled at the time of registration or if the documents are incomplete and have not been submitted by the end of the registration period.
- (4) If the requirements in accordance with paragraph 2 a) to e) are fulfilled, the Examinations Office enters the examination registration in the online portal of the University of Hohenheim. This means that the students are considered to be admitted. If the proof is not provided in due time, admission to the module examination is revoked. If students nevertheless take the module examination, it is invalid.
- (5) The admission is to be revoked if the requirements according to Sec. 20(2) are not met at the time of the module examination.

- (6) Participation without proper registration will result in the examination being considered invalid.
- (7) The Examinations Office manages admission to examinations on behalf of the examination committee.
- (8) These regulations apply to all module examinations.

**§ 21 Grading as well as Passing and Failing Coursework and Examinations**

- (1) Module examinations are designed and graded by an examiner. The grading process should not take longer than six weeks. The results must be announced online by the Examinations Office at the latest on the 10th calendar day before the repeat examination. If the results were not announced in time, an additional examination date must be offered for the repeat examination, which must be at least 10 calendar days after the announcement of the examination results.
- (2) Graded module examinations are evaluated by the examiner with the following individual grades:

Grade value	Grade in words	Definition
1.0 / 1.3	sehr gut very good	an outstanding achievement
1.7 / 2.0 / 2.3	gut good	work which is considerably higher than the average requirements
2.7 / 3.0 / 3.3	befriedigend satisfactory	work which meets the average requirements
3.7 / 4.0	ausreichend pass	work which, despite its shortcomings, still meets the requirements
5.0	nicht ausreichend fail	work that does not meet the requirements due to significant defects

- (3) If module examinations are graded independently by several examiners, the module grade is calculated as the arithmetic mean of all available grades. The result is rounded mathematically to one decimal place. Results worse than 4.0 are always rounded to 5.0 (*"failed"*). The module grade then results from the following table:

Calculated grade	Module grade
1.1 or better	1.0 "sehr gut" / "very good"
1.2 to 1.5	1.3 "sehr gut" / "very good"
1.6 to 1.8	1.7 "gut" / "good"
1.9 to 2.1	2.0 "gut" / "good"
2.2 to 2.5	2.3 "gut" / "good"
2.6 to 2.8	2.7 "befriedigend" / "satisfactory"
2.9 to 3.1	3.0 "befriedigend" / "satisfactory"
3.2 to 3.5	3.3 "befriedigend" / "satisfactory"
3.6 to 3.8	3.7 "ausreichend" / "pass"
3.9 to 4.0	4.0 "ausreichend" / "pass"
4,1 and poorer	5.0 "nicht ausreichend" / "fail"

- (4) Ungraded coursework and examinations are graded by the examiner as "passed" or "failed."
- (5) Coursework and examinations are passed if they are graded at least with "sufficient" (4.0) or with "passed."
- (6) Coursework and examinations are failed with no option to repeat if they are not graded at least with "sufficient" (4,0) or with "passed" and all possibilities for repeating the work according to Sec. 22 have been used.
- (7) Examinations, that is, modules, are passed if all of the work assigned to the module is graded at least with "sufficient" (4.0) or with "passed." If a module examination is passed, the ECTS credits assigned to the module in the module catalogue excerpt are awarded.

## **§ 22 Repeating Examinations**

- (1) Passed examinations may not be retaken.
- (2) Examinations according to Sec. 12 which were graded "fail" (5.0) or are considered failed, can be repeated once. In addition, a single failed module examination can be repeated a second time.
- (3) Coursework according to Sec. 13 can be repeated several times.
- (4) The regulations mentioned in Sec. 22(1-3) apply accordingly to examinations taken at the partner universities.

## **§ 23 Notification of the Examination Results**

All examination results will be made known to the students individually immediately after grading by entry in the database of the electronic examination management system or in another suitable form. Students will receive an email about the entry in the database to the email address assigned by the university. If the grade is registered in the electronic examination management system, the examination result is deemed to be announced two weeks after entry in the database.

## **Subsection 3: Master's Thesis**

### **§ 24 Module Master's Thesis**

- (1) The Master's thesis is intended to show that the students are able to independently work on and present a limited task from a subject area within a given period of time using scientific methods.
- (2) The module Master's Thesis totals 30 ECTS. It consists of the written Master's thesis and the defense. The weighting of the defense for the overall grade of the Master's thesis is 10%.

### **§ 25 Supervisor**

- (1) The Master's thesis may only be supervised by professors, university lecturers, privatdocents, junior professors, contract lecturers, and those academic staff members who have the authority to conduct examinations in accordance with Sec. 52 (1) sentence 6 half-sentence 2 LHG.
- (2) If the Master's thesis is to be supervised by an authorized examiner working outside the University of Hohenheim, this requires the consent of the chairperson of the examination committee.
- (3) If students do not find a supervisor for the Master's thesis on their own initiative, the examination committee will appoint one upon request and arrange for a topic to be assigned.

### **§ 26 Admission to and Assignment of the Master's Thesis**

- (1) Only those who have earned 60 ECTS credits and meet the admission requirements according to Sec. 20 can be admitted to the Master's thesis. The examination committee will decide on exceptions.
- (2) The topic of the Master's thesis is to be taken from one of the permissible subject areas according to Sec. 44.
- (3) The topic is not permitted if it has already been assigned to the students either at the University of Hohenheim or at another scientific university for work as a Master's thesis or comparable work.
- (4) When receiving the topic, students must declare in writing that it has already been assigned to them either at the University of Hohenheim or at another scientific university for work on as a Master's thesis or comparable work.
- (5) Upon justified request, the examination committee may also permit students to select a topic from a department other than those specified in Sec. 44. The requirement for this is that the topic corresponds to the content of the degree program and that sufficient supervision is guaranteed.
- (6) If the requirements according to Sec. 26(1) are fulfilled, students shall contact the person entitled to examine according to Sec. 8(1) (supervisor) who represents the department in which they wish to write the Master's thesis.
- (7) If the person entitled to examine agrees to supervise the student, the student registers for the Master's thesis at the Examinations Office. The date of issue and the topic are to be recorded by the supervising person and filed with the Examinations Office. Students may request certain topics.
- (8) The topic can only be returned once and only within the first month of the period for working on the thesis. However, if the Master's thesis is being repeated, the topic may only be returned if the student did not make use of this possibility when writing their first Master's thesis.
- (9) The Master's thesis may also be permitted in the form of a group thesis if the individual contributions to be graded are clearly distinguishable and assessable on the basis of section, page numbers, or

other objective criteria that allow for a clear distinction and fulfill the requirements according to Sec. 26(1).

#### **§ 27 Working on and Submitting the Master's Thesis**

- (1) The time given to complete a Master's thesis is 6 months and starts with the date the topic is issued according to Sec. 26(7). The topic, the task, and the scope must be such that the time limit set for completing the thesis can be met.
- (2) In justified exceptional cases, the examination committee may extend the deadline by a maximum total of 50 percent of the time for an important reason at the request of the students. An important reason could be objective reasons, such as experimental work, or personal reasons, such as the students' illness. The delay and its duration must be substantiated by the affected students with the application. The application for an extension of the deadline must be received by the examination committee immediately after the problem has occurred and, for objective reasons, may be submitted up to a maximum of two weeks before the deadline. An extension beyond that provided for in Sec. 27(2) sentence 1 is excluded. If there are personal reasons for the extension, the examination committee may also permit the student to withdraw. The topic issued is then considered not to have been assigned. If the extension for working on the Master's thesis leads to the deadline for completing studies according to Sec. 6 being exceeded, then this deadline is also extended.
- (3) As a rule, the Master's thesis should not be less than 60 pages. Further requirements are specified by the supervisor depending on the task.
- (4) The Master's thesis must be written in English.
- (5) The Master's thesis must be firmly bound (no ring binding) and submitted in duplicate to the Examinations Office by the deadline. In addition, a version of the Master's thesis on an electronic data carrier (CD/DVD/USB data carrier) must be submitted to the Examinations Office for further review purposes.
- (6) When submitting the thesis, students must confirm in writing that they have observed the rules of good scientific practice and that they have independently written the Master's thesis - in the case of a group thesis, the section must be marked accordingly. In addition, they must declare that they have used no other sources or aids than those given and have marked the passages taken from other works word-for-word or paraphrased. That the digital version of the Master's thesis is identical in terms of contents and wording without exception to the printed version. If students submit an untrue declaration, the Master's thesis is evaluated with "fail" (5.0).
- (7) The date of submission must be recorded at the Examinations Office. If the Master's thesis has not been received in proper form by the deadline, it is considered to be graded "fail (5.0)" unless the student is not responsible for missing the deadline or mistakes in form.

#### **§ 28 Examiner, Grading, and Repeating the Thesis**

- (1) The Master's thesis is to be graded individually by the examiners in accordance with Sec. 21; the grade for the Master's thesis is to be justified in writing.
- (2) The person examining the Master's thesis is the supervisor according to Sec. 25, unless this person is prevented for good cause. In this case, the examination committee will appoint a replacement. The Master's thesis is also to be graded by a second person authorized to examine. It is sufficient if the second examiner possesses enough subject-area knowledge to evaluate the Master's thesis. The supervisor appoints the second examiner. At least one of the examiners must work full-time in the Faculty of Natural Sciences at the University of Hohenheim.
- (3) If only one examiner grades the Master's thesis with "insufficient" (5,0), but not both examiners, or if there is a difference of more than one whole grade between the assessments of the two examiners, the Master's thesis is to be assessed by another person of the Faculty of Natural Sciences entitled to examine, to be determined by the examination committee. According to Sec. 21(3), the grade of the Master's thesis results from all the grades submitted.
- (4) If both examiners grade the Master's thesis with "fail" (5.0), the module Master's Thesis is not passed.
- (5) If the module Master's Thesis is evaluated with "fail" (5.0) or if it is considered not to have been passed, it may be repeated once with a new topic. It is not possible to repeat the module for a second time. The Master's thesis must be registered to be repeated at the latest 6 weeks after being notified of the results of the first attempt. If this deadline is missed, the right of admission to an examination is lost unless the student is not at fault for missing the deadline.
- (6) According to Sec. 21, the module Master's Thesis is passed if it has been graded at least with the grade "sufficient" (4.0).

#### **Subsection 4: Master's Examination**

## § 29 Grading as well as Passing and Failing the Master's Examination

- (1) The Master's examination is passed if all module examinations, including the Master's thesis, as stipulated by the regulations specific to the degree program in accordance with Part 2 of these examination regulations, have each been graded with at least the grade "sufficient" (4.0) or "passed" and at least 120 ECTS credits have been earned.
- (2) The overall grade of the Master's examination is the arithmetic mean of all module grades weighted with ECTS credits including the grade of the module Master's Thesis. Ungraded work (e.g. internships, practical work experience, work recognized without a grade) are not taken into account when calculating the overall grade of the Master's examination. The overall grade is calculated to exactly one decimal place after the decimal point; all other places are deleted without rounding.
- (3) The overall grade of the Master's examination is assigned according to the following table:

Grade value	Grade in words
1.0 to 1.5	sehr gut / very good
1.6 to 2.5	gut / good
2.6 to 3.5	befriedigend / satisfactory
3.6 to 4.0	ausreichend / pass

- (4) If the number of ECTS credits obtained in the compulsory, semi-elective, or elective modules exceeds the required 120 ECTS credits, the overall grade is calculated from all module grades passed up to the 120 ECTS credits. Further modules are not taken into account for the calculation of the overall grade; the decisive factor is which of the passed modules the student attended first. The regulations for the additional modules in Sec. 30, in particular Sec. 30(4) and (5), must be observed.
- (5) The Master's examination is failed with no option to repeat if
  - a) a module examination required according to Sec. 29(1) including the Master's thesis is not graded at least with "sufficient" (4,0) or with "passed" and all possibilities for repeating the work have been used,
  - b) an examination deadline according to these examination regulations has not been met, unless the delay is not the fault of the applicant,
  - c) or if, pursuant to Sec. 34, in serious or repeated cases of cheating or disruption, the student has been excluded from completing further coursework or examinations.
- (6) If the Master's examination has been failed with no option to repeat, the right of admission to an examination is lost. Students who have lost their right of admission to an examination will be exmatriculated according to Sec. 62(2) no. 3 LHG. They will receive a separate written notification about the loss of the right of admission to an examination and their exmatriculation including information on rights to appeal. On the students' request, a written certificate will be issued which contains the module examinations taken and their grades and shows that the student no longer has the right of admission to an examination.

## § 30 Additional Modules

- (1) Additional modules are voluntary courses that are not required for the successful completion of the Master's examination.
- (2) Students can take additional modules beyond the compulsory, semi-elective, and elective modules depending on their free capacities.
- (3) Additional modules are shown in the transcript of records upon request but are not included in the overall assessment of the Master's examination.
- (4) When registering for the module examinations, students must declare them as additional modules.
- (5) It is only possible to change the allocation retroactively twice. The change is made by written declaration to the Examinations Office.

## § 31 Certificate, Transcript of Records, and Diploma Supplement

- (1) Students will be issued with a certificate in English within four weeks after all the documentation has been submitted that the Master's examination has been passed.
- (2) The certificate includes the following information:
  - Name of the University and faculty,
  - Student's surname, first name, date of birth, city and country of birth,

- Degree program designation,
  - Titles and grades of the successfully completed modules with the acquired ECTS credits,
  - Topic and grade of the Master's thesis with the acquired credits,
  - Overall grade of the Master's examination with the total number of credits earned,
  - Upon the request of the student, the successfully completed additional modules including the module grades according to Sec. 21,
  - Date of the day on which the last examination was completed,
  - Signature of the chairperson of the examination committee of the Faculty of Natural Sciences, and
  - the seal of the University of Hohenheim.
- (3) The certificate is accompanied by a grading scale according to the 2009 ECTS Guidelines, which shows the statistical distribution of the overall grades in the form of a standard table. The basis for calculating the grade distribution scale is all overall grades of the passed Master's examinations in this degree program which were awarded within two academic years up to the date of issue of the certificate.
- (4) A transcript of records is issued as an attachment to the certificate. The transcript of records serves to document the progress of studies and the recognition of learning achievements. The transcript of records contains all coursework and examinations including grades in a structured form. Recognized coursework and examinations must be included in the transcript of records. All additional work is listed in the transcript of records.
- (5) The University of Hohenheim will issue a diploma supplement in English together with the certificate. The diploma supplement includes
- Personal details as in the certificate (see Sec. 31(2))
  - Information on the type and level of the degree,
  - Status of the University of Hohenheim, and
  - Detailed information on the content and degree for the program.

The diploma supplement has the same date as the certificate.

### **§ 32 Master's Degree Certificate**

- (1) After passing the Master's examination, the graduates will receive a Master's degree certificate at the same time as the certificate described in Sec. 31. The degree certificate shows the Master's degree awarded in accordance with Sec. 3 and bears the date of the certificate in Sec. 31. The Master's degree certificate is signed by the Dean of the Faculty of Science and bears the seal of the University.
- (2) With the delivery of the Master's degree certificate, the graduate has the right to use the Master's degree in their title.

## **Section 2: Specific Provisions**

### **§ 33 Withdrawal and Procedural Problems**

- (1) A module examination is graded as "fail" (5.0) if students withdraw from a bindingly registered examination without good reason. The same applies if they do not comply with the specified time to work on the exam.
- (2) Approval of the withdrawal must be applied for in writing to the examination committee via the Examinations Office without delay, and the important reasons given must be substantiated in a credible manner.
- (3) If the student cannot take the examination due to illness, a medical certificate and, in cases of doubt, a certificate from a doctor chosen by the Examinations Office must be submitted as evidence. The medical certificate must be obtained without delay, i.e. no later than the day of the examination, and must contain the medical findings relevant to the inability to take an exam and information on the duration of the illness. The same shall apply if a child cared for by the person to be examined becomes ill, provided that the child has reached the age of 12, or if another person cared for by the person to be examined becomes ill.
- (4) The examination committee decides on the recognition of the reasons and the approval of the

withdrawal. If the withdrawal is approved, the module examination in question shall be deemed not to have been taken. If the withdrawal is not approved, the module examination is considered "fail" (5.0).

- (5) The students must notify the invigilator immediately, that is, usually during the examination, of problems with the examination procedure, external disturbances, and other interruptions in the examination.

### **§ 34 Cheating, Disruptions**

- (1) If students attempt to influence the result of their work by cheating or by using unauthorized aids, the work in question is considered to be graded "fail" (5.0). Cheating also includes the identical adoption of content from the Internet or other works or publications without indication of the source and marking as a quotation (plagiarism). The determination of cheating is made by the respective examiner or supervisor and is officially recorded. In order to determine whether cheating has occurred, the examiner or the examination committee may make use of appropriate software or other electronic aids.
- (2) Anyone who interferes with the proper conduct of an examination or coursework can be excluded from further participation in the examination by the examiner or the supervisor; in this case, the performance in question is considered to be graded "fail" (5.0).
- (3) In serious or repeated cases of cheating or disruption, the responsible examination committee may exclude the student(s) from completing further coursework and examinations in the respective degree program. In all other respects, Sec. 62(3) sentence 1 no. 4 LHG applies.

### **§ 35 Periods of Protection**

- (1) The protection periods of the Act for the Protection of Mothers at Work, in Training and in Studies (Maternity Protection Act - MuSchG) from 23 May 2017 (Federal Law Gazette I, p. 1228) in the respectively valid version are to be respected, and it is to be ensured that the corresponding rights to declarations and revocations by the students can be exercised. The maternity protection periods interrupt any deadlines in these examination regulations.
- (2) Likewise, the periods of parental leave in accordance with Sec. 15(1) to (3) of the Federal Parental Allowance and Parental Leave Act (BEEG) in the currently valid version must be taken into account upon request. Affected students must inform the Examinations Office in writing at least four weeks before the date on which parental leave is to commence of the period for which parental leave will be taken, enclosing the necessary evidence. The Examinations Office will check whether the legal requirements are met and will immediately inform the affected students of the result and, if necessary, of the newly set examination times. The time for working on the Master's thesis cannot be interrupted by parental leave. Those affected shall be permitted to withdraw upon request in accordance with Sec. 19. The thesis is considered not to have been attempted. At the end of the parental leave, they are given a new topic for the Master's thesis.
- (3) For students who can prove that they are caring for and bringing up children as meant in Sec. 25(5) Federal Student Financing Act (BAföG) or caring for relatives in the sense of Sec. 7(3) of the Home Care Leave Act (Pflegezeitgesetz), the examination committee will determine the time granted for working on the thesis, deadlines, and dates regulated in these examination regulations on request by the persons concerned, taking into account time lost due to this care and considering the individual case.

### **§ 36 Allowances for Student Disadvantages**

The special needs of students with disabilities or chronic illnesses are taken into account in order to maintain equal opportunities. If the persons concerned can prove by presenting suitable evidence, in particular a medical certificate, that they are unable to complete all or part of their coursework and examinations in the time or form planned due to a chronic illness or disability, they will be granted appropriate compensation for disadvantages upon application in order to ensure equal opportunities. The examination committee will decide on the request. Compensation for disadvantages may include, in particular, the extension of examination deadlines, the extension of writing time for exams or papers, or the approval of appropriate aids.

### **§ 37 Invalidity of the Master's Examination, Rescinding the Master's Degree**

- (1) If students have cheated on coursework or an examination and this fact becomes known after the certificate has been issued, the grades of the coursework or examination on which the cheating occurred may be corrected. This is decided by the examiner after hearing the persons concerned. If necessary, the coursework or examination can be declared "insufficient" (5.0) and the Master's examination as "failed." The examination committee will decide on these cases.



- (2) If the requirements for admission to an examination or the Master's thesis were not met without students intending to deceive, and if this fact only becomes known after the certificate has been issued, this deficiency is remedied by passing the examination. If the students intentionally deceived to gain admission to the examination or Master's thesis, the module examination or Master's thesis can be declared "insufficient" (5.0) and the Master's examination as "failed." This is decided by the examination committee after hearing the persons concerned.
- (3) All incorrect certificates shall be withdrawn and, where appropriate, new ones shall be issued.
- (4) A decision made according to Sec. 37(1) and (2), sentence 2, shall be excluded after a period of five years from the date of the certificate.
- (5) If the examination as a whole is declared failed, the Master's degree is to be revoked and the certificate issued is to be confiscated. The revocation of the degree follows statutory requirements.

### **§ 38 Right of Inspection**

- (1) As a rule, the departments offer a date for viewing the examination papers, the minutes of the oral examination, and the assessment of the Master's thesis within a reasonable period of time after notification of the grades. The examiner appoints the location and time for inspecting the papers.
- (2) A request for inspection must be made within one month of the announcement of the examination results.
- (3) § 29 of the State Administrative Procedure Act (Landesverwaltungsverfahrensgesetz) remains unaffected.

## Part 2 Degree Program-Specific Regulations

### § 39 Degree Program Objective

The degree program deals with the integrative, system-oriented view of the food sector as a whole, the Food System, in order to develop innovative solutions for new products, technologies, and services in the food sector. The aim of the program is to enable students to gain expertise in three different areas of the food system in an international context, such as agricultural and food technology, food production, or consumer behavior and marketing management. Industrial partners complement the scientific education with an entrepreneurial perspective to enable graduates to use their knowledge creatively and to develop new added value in existing or newly founded companies in the sector.

### § 40 Structure and Organization of the Degree Program

- (1) Students study at a total of three locations. The first and fourth semesters are at the University of Hohenheim. The second and third semesters are completed at one of the partner universities according to the 'individual path'; also see the admission regulations.
- (2) At the beginning of the first semester, students take part together in the compulsory module "Introduction to the Food System," in which they learn about the Food System and its components with the help of basic principles of systems science. The module is carried out together with all students of the partner universities. The remaining first semester at Hohenheim focuses on the AgFoodTech (agricultural and food technology) area.
- (3) The second and third semesters are spent at two different partner universities according to the 'individual path.' The partner universities offer thematically differentiated tracks of equal value in terms of the workload, in which disciplinary knowledge is imparted on specific sub-areas of the food system. The examination regulations of the partner universities apply accordingly, in particular the regulations on registration for examinations, on the examiners, and on the examination modalities. The number of attempts permitted at examinations is determined by the provisions set out in Sec. 22. An overview of the contents of the tracks can be found in the module catalogue excerpt.
- (4) The change of a track to one of tracks listed in the module catalogue excerpt is possible in well-founded exceptional cases provided that places are available. A request needs to be submitted to the Examination Committee.
- (5) In semesters two and three, students take one compulsory module each across cohorts. In the second semester, this module is in the format of a summer school. In the third semester, as part of the module "Emerging Technologies Business Case Study," internationally mixed teams work on a case study with the aim of developing a product idea to market maturity.
- (6) The Master's module in the fourth semester is done at the University of Hohenheim. The Master's thesis can be planned and carried out as a cooperative Master's thesis with industrial partners. Finally, the defense of the master's thesis takes place.

### § 41 Modules

- (1) In the Master's program Food Systems, the following must be successfully completed:
  - a) Compulsory modules with a minimum of 30 ECTS credits
  - b) Semi-elective modules with a minimum of 45 ECTS credits
  - c) Elective modules with a minimum of 15 ECTS credits
  - d) The Master's thesis module with 30 ECTS credits

<b>Compulsory module</b>	<b>30</b>	<b>credits</b>
Introduction to Food Systems	7,5	<b>credits</b>
AgFoodTech	7,5	
Entrepreneurship and Innovation in the Food System	7,5	
Emerging Technologies Business Cases	7,5	
<b>Semi-elective modules according to the tracks (further details are available in the module catalogue)</b>	<b>45</b>	<b>credits</b>
<b>Elective modules (further details are available in the module catalogue)</b>	<b>15</b>	<b>credits</b>
<b>Master's thesis</b>	<b>30</b>	<b>credits</b>
<b>Total</b>	<b>120</b>	<b>credits</b>

- (2) Modules are offered in blocks or during the entire lecture period. The decision on the form of the module is made by the faculty offering it while taking into account organizational necessities to ensure the degree program can be properly completed. Modules comprise one or more courses that are coordinated thematically and chronologically. The study content is based on the curriculum, supplemented by the module descriptions.
- (3) A list of recommended semi-elective and elective modules can be found in the module catalog excerpt. Besides this list, students may choose from the modules offered in the University of Hohenheim's Natural Science and Agricultural Science Master's programs. This requires a consultation with the program director. In addition, upon request to the Examination's Committee, modules from other Master's programs at the University of Hohenheim, another German University, or a University abroad may be chosen for the elective area.

#### **§ 42 Grade Calculation**

In the case of coursework and examinations taken at the partner universities, the grades are to be adopted in accordance with the ECTS Users' Guide provided by the European Commission and in accordance with the Hohenheim grading system, see also §21, and are to be included in the calculation of the module grades and the overall grade. A tabular overview of the grade conversion is updated annually across all partner universities on a deadline to be specified (usually in March). The grade conversion table is valid from the following winter semester for the respective starting study cohort and for the duration of the entire study. After the approval of the grade conversion table by the consortium, it is sent to the Examination Office and published in the new curriculum.

#### **§ 43 Repeat Examination, Withdrawal, and Examinations outside the Scheduled Semester**

- (1) The structure of the program is as described in Sec. 40. This obligates students to stay at two different partner universities and to complete the modules offered there.
- (2) If exams cannot be taken within the scheduled time frames, a change in the schedule of the program must be requested. The request must be received by the program coordinator for the Food Systems program at the University of Hohenheim at the latest 2 weeks before the next possible examination period. The examination periods of the university where students are in the current semester apply. The applicant is required to seek prior advice from the program coordinator. The examination committee reviews the request and decides within the maximum period of time according to Sec. 6(2) on extension possibilities and gives alternative or additional possibilities to make up examinations at one of the partner universities. For the study schedule, Sec. 6 applies accordingly.

#### **§ 44 Admissible Departments**

The departments permitted for the Master's thesis are as follows:

- Dept. of Weed Science (360B)
- Dept. of Process Engineering in Plant Production (440d)
- Dept. of Dairy Science and Dairy Technology (150e)
- Dept. of Process Analytics and Cereal Science (150i)
- Dept. of Process Engineering and Food Powders (150c)
- State Plant Breeding Institute - Working Group Wheat (720)
- Dept. of Agricultural Engineering in the Tropics and Subtropics (440e)
- Dept. of Food Material Science (150g)
- Dept. of Flavor Chemistry (150h)
- Dept. of Plant-based Foods (150d)
- Dept. of Food Informatics (150l)

### **Part 3: Closing Provisions**

#### **§ 45 Entry into Force**

- (1) These examination regulations shall enter into force on the day after they have been published in the University of Hohenheim's Official Communications.
- (2) These examination regulations apply to all students who begin their studies from the winter semester 2019/20.
- (3) Sec. 31(3) shall come into force in the winter semester 2023/24.

## Annex

### Possible Paths

	1st Semester	2nd Semester	3rd Semester	4th Semester
Option 1	University of Hohenheim	University of Turin	University of Reading	University of Hohenheim
Option 2	University of Hohenheim	University of Warsaw	University of Turin	University of Hohenheim
Option 3	University of Hohenheim	University of Turin	University of Aarhus	University of Hohenheim

### Tracks at the partner universities

Universität	Bezeichnung	Inhalte	Module	Pflicht (P), Wahlpflicht (WP) Wahl (W)	ECTS	Teilnahmevoraussetzung
Universidad Autonoma de Madrid	Functional Foods and Precision Nutrition	The track will allow the students to acquire knowledge and skills related to the action/s and effect/s of bioactive food compounds on human health status. The students will explore novel entrepreneurial venues through the application of functional foods specifically designed for precision nutrition, for both healthy individuals and chronic diseases patients. This objective will be pursued through training on cutting-edge methods and techniques within the area of Molecular Nutrition and Foodomics in order to understand the role of functional foods on maintaining/enhancing human health in a personalized manner. Concepts linked to genetics and genomics will be introduced so the students can immerse into the most recent aspects of precision nutrition and explore their relevance on consumer welfare.	<ul style="list-style-type: none"> <li>Personal Nutrition and Chronic diseases</li> <li>Omics Technologies</li> <li>Functional foods: design and validation</li> </ul>	WP  WP  WP	22,5	Basic knowledge in Food Science, Nutrition and/or Biology
University of Reading a	Personalised Nutrition and the Consumer	The track will focus on an individual's nutritional needs and requirements, considering how dietary interventions could be developed, based on knowledge of personalized data such as phenotype (measurable physical and biological traits, e.g. BMI, cholesterol level) and genotype. The track will be taught from the viewpoint of the scientific evidence basis that links diet to health at a population level as well as an individual basis. It will provide students with an understanding of the physiological, biochemical and molecular genetic basis of chronic noncommunicable diseases, such as metabolic and cardiovascular diseases, to provide them with an understanding of topical issues in nutritional sciences and how this relates to the consumer	<ul style="list-style-type: none"> <li>Understanding and influencing Consumer Behaviour</li> <li>Microbes in Health and Disease</li> <li>Nutrition Concepts</li> <li>Lifestyle, Nutrigenetics and Personalised Nutrition</li> </ul>	WP  WP  WP  WP	22,5	English language skills (IELTS 6.5 with no significant weakness). A background containing a significant element of chemistry and/or biological science

University of Reading b	Public Health Nutrition and the Consumer	The track will focus on the scientific background of public health nutrition and consumer choice, in particular the associations between diet and disease, the methods of nutritional epidemiology and public health nutrition interventions. The track will provide an understanding of the factors that influence food choice and behaviour in individuals, groups and populations. In addition, the specific issues associated with situations in which food choice is limited or controlled such as in hospitals and schools will be explored, plus the influence of commercial advertising and of healthy eating and other campaigns will be explored. The track will also include a food product re-formulation project to increase the nutritional quality of food product and assess how nutritional information is communicated to the general public.	<ul style="list-style-type: none"> <li>• Nutrition Communication and Professional Practice</li> <li>• Food product re-formulation</li> <li>• Public Health Nutrition and Consumer Food Choice</li> </ul>	WP WP WP	22,5	General: Good English language skills (IELTS 6.5 with no significant weakness). A background containing a significant element of food science and/or nutrition.
University of Warsaw	Food Systems Management	The track will focus on designing innovative and sustainable value chains for the Food System. Furthermore, development of new products and introduction in the Food Market (based on Design Thinking) will be considered. The Project Management Process (based on PM tools) for the Food System will be outlined additionally.	<ul style="list-style-type: none"> <li>• Leadership in Food System</li> <li>• Marketing in Food System</li> <li>• Management in Food System</li> </ul>	WP WP WP	22,5	Basic knowledge about the food system (types of organizations in the company's environment, legal conditions, basic economic rules, general orientation about the main market players in this sector) Basic knowledge about management (basic management functions and tools to implement these functions)
University of Turin a	Food safety of the whole value chain	The main subjects covered in the track will be the food safety of the whole chain from production to consumption, with insights of foodborne pathogens physiology and virulence, food toxicology, food safety management systems. Problem solving exercise will be carried out in the field of food safety.	<ul style="list-style-type: none"> <li>• Microbiological risks in the food</li> <li>• Food safety management systems</li> <li>• Food Toxicology</li> </ul>	WP WP WP	22,5	Basic knowledge of food microbiology

University of Turin b	Functional compounds in Food Systems	In this track, the students will acquire knowledge related to the most important functional compounds in foods. Functionality will be referred to both the effect that those compounds can have to human health, but also to the food itself. As a matter of fact, foods (and food side streams) contain a number of functional compounds which can be used in food preparation to reach specific technological objectives (protection from oxidation, water retention, structure, etc.). The modules will focus on the description of those "active" components, their separation (extraction) from different sources (both raw and waste materials) and their valorization in the production of functional foods and towards human health.	<ul style="list-style-type: none"> <li>• Functional compounds and nutrition</li> <li>• Functional compounds applied to food processes</li> <li>• Natural sources and green extraction technologies to obtain bioactive compounds</li> </ul>	WP  WP  WP	22,5	-
University of Aarhus a	Future Foods	This track will bring the student close to future foods on society, consumer, sensory and molecular level. It will give the student insight in future sustainable food production of high value crops and novel animal-based food products including cell-based production, combined with food sensory science, innovation and product development in the food sector.	<ul style="list-style-type: none"> <li>• Food, consumer and innovation</li> <li>• Future animal-based food</li> <li>• Innovative and organic production of fruits and vegetables</li> <li>• Project work in sensory science</li> </ul>	WP  WP  WP  WP	22,5	A scientific, food, agricultural, technical-scientific or medical scientific bachelor degree with molecular biology or biochemistry at a level of 10-15 ECTS is recommended as well as basic knowledge of Food Science.
University of Aarhus b	Food Structure and Quality	The track focus on the linkage between primary production, raw material and the impact on final food product quality inclusive sensory quality. It aims to elucidate the genetic and the production factors in the primary production that are of significance for the quality of the raw material and its suitability for further processing of food and food products. Furthermore, the track elucidates the relations between the structure and the functional characteristics of foods, and give the student knowledge of enzymatically catalyzed processes of significance for food production, and the interaction between food enzymes and the resulting food structure and texture.	<ul style="list-style-type: none"> <li>• Food structure and enzymes</li> <li>• Food quality and technology</li> <li>• Project work in sensory science</li> </ul>	WP  WP  WP	22,5	Molecular Biology or Biochemistry at a level of 10-15 ECTS is recommended as well as a basic knowledge of Food Science

Lund University a	Consumer driven sustainable food processing	The track aims to provide an understanding of the interdisciplinary connections and tools of sustainable food processing to enable smart-systems, including their need in society and their environmental, economic and social impact. The track will introduce concepts of food production through efficient use of biomass and energy, through the whole production chain taking into account societal and consumer perspectives. Students will get an increased understanding of food processing with significant waste reduction along the food value chain, including packaging and logistics, as well as healthy and high quality food production. The students will be able to understand and react according to future trends in sustainable food processing.	<ul style="list-style-type: none"> <li>Sustainable food processing and packaging</li> <li>Food engineering</li> <li>Packaging logistics</li> <li>Packaging Material Science</li> </ul>	WP  WP WP WP	22,5	
Lund University b	Consumer driven sustainable food processing	The track aims to provide an understanding of the interdisciplinary connections and tools of sustainable food processing to enable smart-systems, including their need in society and their environmental, economic and social impact. The track will introduce concepts of food production through efficient use of biomass and energy, through the whole production chain taking into account societal and consumer perspectives. Students will get an increased understanding of food processing with significant waste reduction along the food value chain, including packaging and logistics, as well as healthy and high quality food production. The students will be able to understand and react according to future trends in sustainable food processing.	<ul style="list-style-type: none"> <li>The relation of the food industry towards society and consumer</li> <li>Food formulation and product development</li> <li>Sustainable food processing and packaging</li> </ul>	WP  WP WP	22,5	

**Transitional rules:**

(1) These changes will apply to all students from the winter semester 2021/2022, unless otherwise specified.

(2) Students who have already started their studies in the Master's program "Food Systems" before the winter semester 2021/2022 will complete their studies according to the above mentioned regulations and the following conditions:

- a. For students beginning in WS19/20, the previous pathways will apply and the original pathway assignment will be maintained:

	1. Semester	2. Semester	3. Semester	4. Semester
Option 1	Universität Hohenheim	University of Reading	University of Warsaw	Universität Hohenheim
Option 2	Universität Hohenheim	University of Reading	Universidad Autonoma de Madrid	Universität Hohenheim
Option 3	Universität Hohenheim	Queen's University of Belfast	Universidad Autonoma de Madrid	Universität Hohenheim

- b. For students beginning in WS20/21, the previous pathways will apply and the original pathway assignment will be maintained:

	1. Semester	2. Semester	3. Semester	4. Semester
Option 1	Universität Hohenheim	University of Warsaw	Universidad Autonoma de Madrid	Universität Hohenheim
Option 2	Universität Hohenheim	Universidad Autonoma de Madrid	Queen's University of Belfast	Universität Hohenheim
Option 3	Universität Hohenheim	University of Turin	University of Reading	Universität Hohenheim

- c. For students beginning in WS21/22, the previous pathways will apply and the original pathway assignment will be maintained:

	1. Semester	2. Semester	3. Semester	4. Semester
Option 1	Universität Hohenheim	University of Turin	University of Aarhus	Universität Hohenheim
Option 2	Universität Hohenheim	University of Turin	University of Reading	Universität Hohenheim
Option 3	Universität Hohenheim	University of Warsaw	University of Aarhus	Universität Hohenheim

- d. A change of track is possible upon request according to §40 (4).

(3) Since Queen's University of Belfast will no longer be part of the consortium from WS22/23, the tracks "Food integrity of the supply chains" in variants a and b will no longer be offered from this point on. Students who started the track according to the path assignment before WS22/23 complete it under the following conditions:

Universität	Bezeichnung	Inhalte	Module	P/WP/W	ECTS	Teilnahmevoraussetzung
Queen's University of Belfast a	Food integrity of the supply chains. Applied and advanced systems for food control	The track will cover from the environment to the consumer with an emphasis on incorporating new innovations with emerging technologies and how to design those get approval and acceptance for implementation.	<ul style="list-style-type: none"> <li>Food Safety, Health and Disease</li> <li>Advanced Food Bioanalysis</li> <li>Advanced research skills</li> </ul>	WP WP WP	22,5	-
Queen's University of Belfast b	Food integrity of the supply chains. Applied and advanced systems for food control	The track will cover from the environment to the consumer with an emphasis on incorporating new innovations with emerging technologies and how to design those get approval and acceptance for implementation.	<ul style="list-style-type: none"> <li>Agri-Food Traceability and Fraud</li> <li>Entrepreneurship for Food</li> <li>Advanced research skills</li> </ul>	WP WP WP	22,5	



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