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**Faculty of Agricultural Sciences:**

Following the resolution of the Faculty Council of the Faculty of Agricultural Sciences on 24.06.2021, the Presidential Board of Georg-August-Universität has approved the ninth amendment to the examination and study regulations for the consecutive Master's degree programme "Crop Protection" on 15.09.2021 in the version published on 09.06.2010 (Official Announcements No 12/2010, p. 1045), as last amended by decision of the Presidential Board on 31.03.2021 (Official Announcements I No. 17/2021 p. 234), (§ 44 section 1 sentence 2 NHG in the version published on 26.02.2007 (Nds. GVBl. p. 69), last amended by Article 4 of the Act dated 16.03.2021 (Nds. GVBl. p. 133); § 37 section 1 p. 3 No. 5 b), § 44 section 1 p. 3 NHG).

**Examination and study regulations  
for the consecutive Master's degree programme "Crop Protection"  
of the University of Göttingen**

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### **§1 Scope, purpose of the tests**

(1) The provisions of the "General examination regulations for Bachelor's and Master's degree programmes as well as other courses and degrees offered at the University of Göttingen (APO)" in the currently valid version apply to the Master's degree programme course of study Crop Protection.

(2) <sup>1</sup>This regulation regulates further provisions for the implementation and completion of the Master's degree programme "Crop Protection". <sup>2</sup>The special degree programme requirements are listed in these regulations.

(3) The master's examination in the research and vocational field-oriented course of study is intended to determine whether the candidates to be tested have acquired the necessary specialised knowledge for the transition to professional practice, whether they have an overview of the subject-related interrelationships, and if they are experts in the scientific field of crop protection (Crop Protection), in order to apply more in-depth scientific methods and knowledge to be able to work as a scientist or scientist in a specialised occupational field.

### **§ 2 Objectives of the study, occupational fields, university degree**

(1) The Master's degree programme "Crop Protection" aims to improve the qualification of students for international specialist and management tasks, or to prepare them in a more targeted way for the appropriate foreign-related research activities, thereby making them more competitive in terms of international competition. On the basis of the course of study, foreign students from industrialised, emerging, developing and transition countries will be offered an internationally competitive continuing education system which meets their qualification needs.

(2) <sup>1</sup>Crop protection is one of the most important technologies in crop production and deals with all issues related to the cause, development and spread of crop damage, the development and application of efficient, sustainable, preventive and curative control measures, as well as their environmental, social and economic impacts. <sup>2</sup>There is a close relationship to other disciplines such as plant breeding, crop production, plant nutrition, agricultural technology, as well as to microbiology, botany, biotechnology, zoology and agricultural economics.

(3) <sup>1</sup>The aim of the study programme of the consecutive Master's degree programme "Crop Protection" is to convey, in an interdisciplinary approach, the basic theories, methods, procedures and questions related to plant protection in agricultural sciences and agriculture. <sup>2</sup>Graduates of the

course of studies gain knowledge about the special features, limits, applicable terminologies and doctrines in "Crop Protection". <sup>3</sup>In doing so, the students acquire the qualification for scientific work and scientifically sound analysis in the subject disciplines of the course of studies. <sup>4</sup>This knowledge and understanding forms the basis for the development and/or application of independent ideas for the solution of problems in crop protection, even in new and unfamiliar situations, which are in a broader or multidisciplinary context.

- (4) The general and subject-related goals of the study include, among other things, the acquisition
- of specific knowledge of plant protection, its methods and procedures;
  - of definite knowledge of biotic and abiotic harmful factors on cultivated plants in temperate and warm climates;
  - the ability to collect, display and evaluate crop protection data;
  - the ability to apply advanced scientific-analytical laboratory methods or technical methods or qualitative and quantitative survey methods and to interpret their results;
  - the ability to process and display complex analytical and other data using agricultural and bioinformatics methods;
  - the ability to use and evaluate scientific literature, statistics and other documentation at a scientific level;
  - the ability to present test results in writing, verbally and in illustrations;
  - the ability to carry out largely independent research or application-oriented projects, and
  - the ability to view and assess the impact of crop protection in terms of its social, scientific and ethical aspects.

(5) Graduates of the Master's degree programme can deal with knowledge and complexity and also make scientifically sound decisions based on incomplete or limited information.

(6) In addition, this academic programme/course of studies enables the development of key competences, such as networked thinking and communication skills, which enables students to clearly and lucidly communicate to expert representatives and laymen the conclusions from the most up-to-date research and application and also the underlying information and motivations.

(7) The purpose of the master's examination is to ascertain whether the candidates to be examined have acquired the necessary professional knowledge for the transition to professional practice, have an overview of the subject-related interrelationships and, as experts, know how to understand and apply more in-depth scientific methods and findings.

(8) Studying in the consecutive Master's degree programme "Crop Protection" is intended to prepare the students for their subject-related or scientific occupational field. Agricultural scientists with the university degree "Master of Science" (in short: "M.Sc.") in "Crop Protection" are predominantly active as managers

- in operations of the agriculture and food industry,
- in production-engineering specialised consultancy,
- in the national and international agricultural industry
- in service industries, e.g., as experts, consultants,
- in public service, e.g., at chambers of agriculture and ministries
- in international organisations,
- in environmental protection and landscape design,
- at universities and in research institutions.

(9) In particular, the study programme qualifies for admission to doctoral studies.

(10) After passing the master's examination, the university awards the university degree "Master of Science", abbreviated "M.Sc.".

### **§ 3 Start of programme, duration, language**

(1) The Master's degree programme can be commenced only in the winter semester. The degree programme cannot be studied part-time.

(2) The standard course length is 4 semesters. At least 120 credit points (Credits, abbreviated C) must be acquired.

(3) Based on these study regulations, the faculty offers a range of courses that enables the students to complete the academic programme, including all exams, within the standard course length.

(4) The course of study is held in the English language.

### **§ 4 Structure of the course of studies, semester abroad**

(1) The academic programme comprises 120 credits (ECTS credits; abbreviated as: C) that are awarded as follows:

- a) on the subject specific studies (compulsory modules) 30 C,
- b) on the area of professionalisation (elective compulsory modules) 60 C, of that 6 C for key competencies and
- c) on the master's thesis 30 C (including 6 C for a colloquium for master's thesis).

(2) It is possible to complete parts of the academic programme/course of studies, including field research for a master's thesis, abroad.

(3) <sup>1</sup>The study and examination components should be completed in both compulsory and optional modules. The number, type and scope of the modules to be completed successfully are regulated by the module overview (Appendix I). <sup>2</sup>Up to 18 C in the area of professionalisation can be taken by modules from other Master's degree programmes in the Agricultural Sciences of the University of

Göttingen. <sup>3</sup>In addition, upon request to the examination board, a module amounting to 6 C from a master course of study of another faculty can be taken and credited for the area of professionalisation, provided that the study is meaningfully designed according to the objectives of this course of study and the relevant faculty grants it consent. <sup>4</sup>A recommendation for the appropriate structure of the course of studies can be found in the attached curriculum (Appendix II). <sup>5</sup>The module index is published separately. It forms a part of this regulation as far as the modules are listed in the module overview (Appendix I).

### **§ 5 Study advice and management of studies**

(1) <sup>1</sup>The study advice is administered by the lecturers involved in the course of study, the student advisors of the faculty, and the examination office in examination matters. <sup>2</sup>In addition, there is a coordinating office for study advice set up for the Master's degree programme "Crop Protection".

(2) The coordination office provides continuous study advice. The tasks are:

- Advising students on how to plan and conduct their studies;
- Receiving suggestions on how to improve teaching methods;
- Advice on recognition and admission issues;
- Support service for international students;
- Initiation, administration and maintenance of international relations;
- Organisation of imports and exports in teaching;
- Assistance in the organisation of student congresses and workshops locally.

(3) The Central Student Advisory Office of the university is responsible for the general study advice, especially in inter-faculty questions.

(4) The students should get study advice, especially in the following cases:

- for exams failed twice;
- for deviations from the standard course length;
- in the case of a change in the focus of study, course of study or university;
- before a planned foreign period of studies,

### **§ 6 Teaching and learning forms, Admission to events with a limited number of seats**

(1) Modules can consist of different types of courses: Lectures, seminars, exercises, internships and project work or combinations of these types of events. Supplementary courses are provided to consolidate the material.

(2) The teaching and examination programme of the course is in English.

(3) <sup>1</sup>Certain courses are offered with a limited number of participants. <sup>2</sup>These include:

- a) Field internships,

- b) Field trips,
- c) Exercises, internships and seminars.

<sup>3</sup>The teachers of these courses will inform the students about the intended number of participants.

(4) <sup>1</sup>For courses with a limited number of participants, priority is given to students who are in the highest subject semester. <sup>2</sup>Selection of students with equal entitlement to admission is decided by a draw.

### **§ 7 Internship**

<sup>1</sup>Students have to complete an internship of six weeks. <sup>2</sup>Internships are provided in sufficient numbers. A list of possible internships is announced in a suitable manner. <sup>3</sup>Internships not included in this list require the prior approval of the chairperson of the examination board. <sup>4</sup>This office is also responsible for the recognition of the certificate of internship, in which the internship confirms the activity and specifies the nature of the tasks being performed. <sup>5</sup>An internship report has to be prepared and must be presented in a seminar in the form of a presentation.

### **§ 8 Admission and registration for module examinations**

(1) <sup>1</sup>Two examination periods, each lasting three weeks, will be scheduled by the examination board for each semester. <sup>2</sup>For each of the types of modules they shall be at the start and the end of the semester, but no more than one week within the period of lectures.

(2) The dates of the module examinations within the examination periods are determined by the persons responsible for the module, in agreement with the chairman of the examination board, and announced publicly in the Agricultural Sciences Online Examination Office (AGROPAG/FlexNow) at the latest six weeks before the module examination, within the university.

(3) <sup>1</sup>Registration for written module examinations takes place in writing or electronically in the form and within the deadline specified by the examination board. <sup>2</sup>Withdrawal without stating reasons (withdrawal) is possible up to a day before the examination date, in as far as the time period between the deadline for registration and the examination date is more than a day. <sup>3</sup>Withdrawal is otherwise excluded.

(4) <sup>1</sup>The registration for oral module examinations takes place in writing or electronically according to the form and within the deadline specified by the examination board. <sup>2</sup>Withdrawal without stating reasons (withdrawal) is possible up to seven days before the examination date, in as far as the time period between the deadline for registration and the examination date is more than seven days. <sup>3</sup>Withdrawal is otherwise excluded.

(5) <sup>1</sup>Registration for other examinations during the teaching period must take place at the start of seminars. <sup>2</sup>Withdrawal from papers is possible up to the announcement of the paper's topic and

withdrawal from presentations and co-presentations up to fourteen days before the date of presentation, provided the time period between the deadline for registration and the examination date is more than two weeks.

### **§ 9 Admission to the master's thesis**

(1) The prerequisite for admission to the master's thesis is the successful completion of modules amounting to at least 72 C, including the two compulsory modules amounting to 18 C.

(2) <sup>1</sup>A written application for admission to the master's thesis must be submitted to the relevant examination board. <sup>2</sup>The following material must be enclosed with the application:

- a) proof of fulfilment of the conditions referred to in section 1,
- b) suggested topic for the master's thesis,
- c) written confirmation from the first supervisor and the second supervisor,
- d) declaration that the master's examination has not been finally passed in the same or a comparable master course of study at a university in Germany or abroad or is considered to have been definitively failed.

<sup>3</sup>The suggestion under letters b) and c) is unnecessary if the student asserts that they have not found any supervisors. <sup>4</sup>In this case, the examination board appoints supervisors and determines the topic of the master's thesis.

(3) <sup>1</sup>The examination board decides on admission. <sup>2</sup>This should be rejected if the qualifications for entry are not fulfilled or the master's examination in the same or similar Master's degree programme at a domestic or foreign university has been definitively failed or regarded as having been definitively failed.

### **§ 10 Master's thesis**

(1) By means of the written master's thesis, the candidate should prove that he or she is able to use the methods of his or her subject area to work on a problem within the specified period of time, to develop an independent, scientifically valid judgement, to make scientifically sound statements, and to present the results in a linguistic and formal sense.

(2) The master's thesis is written in English.

(3) <sup>1</sup>The preliminary topic of the master's thesis is to be agreed upon with the supervisor to be proposed from the field of the course of study and presented to the responsible examination board with a confirmation from the second supervisor to be proposed. <sup>2</sup>If the candidate does not find a supervisor in the respective subject, a supervisor and a topic will be determined by the relevant examination board. <sup>3</sup>The candidate's view should be considered in choosing the topic. <sup>4</sup>The right to make a proposal for the choice of topic does not constitute a legal right. <sup>5</sup>The examination office

issues the topic of the master's thesis under the auspices of the chairperson of the examination board. <sup>6</sup>The time of issue must be recorded.

(4) <sup>1</sup>In the case of completing the master's thesis abroad, supervision of the master's thesis is regulated by learning agreements with the advisor there. <sup>2</sup>Completing the master's thesis abroad requires prior approval from the examination board.

(5) <sup>1</sup>The master's thesis must be completed in 26 weeks. <sup>2</sup>The responsible examination board can extend the processing time by a maximum of 6 weeks at the request of the candidate if there are important grounds for doing so for which the candidate is not responsible, with the agreement of the supervisor. <sup>3</sup>Important grounds usually apply in the event of illness which must be reported immediately and documented by a medical certificate.

(6) <sup>1</sup>The topic can be returned only once and only within the first ten weeks of the processing time. <sup>2</sup>A new topic must be issued immediately, but at the latest within 4 weeks. <sup>3</sup>If the master's thesis is repeated, it is permissible to return the topic under sentence 1 only if the examinee did not make use of this option in their first attempt.

(7) <sup>1</sup>The master's thesis is to be submitted in due time to the responsible examination office exclusively in text form in the format of a generally used word processing programme or in pdf format (unprotected); the submission shall be made via the examination administration system. <sup>2</sup>The time of submission must be put on record. <sup>3</sup>Upon submission, the candidate should declare in writing that he or she has independently compiled the work and has not used any sources and tools other than those specified. <sup>4</sup>An examiner may demand that the candidate additionally submit the master's thesis in written form; in this case, an assessment claim shall only arise after the written form has been submitted; the candidate must assure that the written form and the version submitted in accordance with sentence 1 are the same. <sup>5</sup>A request in accordance with sentence 4 must be declared no later than one week after the date of submission in accordance with sentence 2.

(8) The examination board will hand over the master's thesis to the first supervisor and the second supervisor as reviewer.

(9) The duration of the assessment procedure shall not exceed 6 weeks.

### **§ 11 Colloquium for the master's thesis**

(1) <sup>1</sup>In the colloquium, after an introductory lecture of 30 minutes on his or her master's thesis, the candidate has to prove in a subsequent discussion that he or she is capable of independently answering interdisciplinary and problem-related issues on a scientific basis and is able to classify these issues within the whole area of agricultural sciences. <sup>2</sup>The total duration of the colloquium is about 60 minutes.



(2) In order to be admitted to the colloquium, the master's thesis must have been rated at least "adequate".

(3) The colloquium should be held within six weeks following submission of the master's thesis.

(4) <sup>1</sup>The colloquium will be jointly conducted as a test by the reviewers of the master's thesis. <sup>2</sup>The examination board may appoint up to two additional examiners for interdisciplinary topics, subject to agreement with the examination candidate.

(5) The colloquium is open to internal university members.

### **§ 12 Evaluation of the master's thesis and the colloquium on the master's thesis**

(1) <sup>1</sup>The first reviewer prepares a report including a grade suggestion for the master's thesis. <sup>2</sup>The report shall be forwarded to the second expert who may agree with the initial report including the proposed grade or may suggest a different grade. <sup>3</sup>In the case of a deviating proposed grade, the two reviewers must submit a uniform assessment. <sup>4</sup>If the two reviewers are unable to agree on a joint assessment, the examination board will appoint a third reviewer to assess the master's thesis, the assessment of which alone constitutes the examination grade. <sup>5</sup>He or she may opt for one of the previous evaluation proposals or for an intermediate assessment.

(2) The grade of the master's thesis colloquium is the arithmetic mean of the assessment of the two reviewers.

(3) <sup>1</sup>For the master's thesis and the colloquium for the master's thesis, a common grade is calculated. <sup>2</sup>This corresponds to the weighted arithmetic mean of the grades of the master's thesis as well as the colloquium of the master's thesis. <sup>3</sup>The grade of the master's thesis is weighted with 80 per cent, the grade of the colloquium on the master's thesis with 20 per cent. <sup>4</sup>The joint grade, with the weight of 30 C, is included in the overall result of the master's examination.

### **§ 13 Repeatability of examination components**

(1) <sup>1</sup>Failed module examinations, as well as the colloquium for the master's thesis, can be repeated twice. <sup>2</sup>The second re-examination of a module is to be taken as an oral exam.

(2) <sup>1</sup>Repeat examinations for required elective compulsory modules must be taken within one year of the announcement of the assessment of the unsuccessful exam. <sup>2</sup>If the deadline is exceeded, the corresponding test will be deemed failed if the student(s) is/are responsible for it. <sup>3</sup>If there is an important reason, in particular, in case of illness, the examination board may grant a reasonable extension of the time limit on request.

(3) A master's thesis which is graded "not sufficient" can be repeated once.

(4) A repetition of passed examinations for the purpose of improving the grade is excluded.

#### **§ 14 Examination board**

(1) <sup>1</sup>The examination board consists of five members appointed by the respective group representatives in the faculty council, comprising , in particular, three members of the professorial group, one member of the scientific staff group and one member of the student group. <sup>2</sup>An additional deputy is to be appointed from each group.

(2) The examination board elects its chairperson and the deputy from the group of university professors.

(3) The Dean forms part of the committee in an advisory capacity.

(4) <sup>1</sup>The examination board can draw up recommendations for quality assurance and for necessary changes to the examination regulations. <sup>2</sup>Before forwarding them to the faculty councils, they must be submitted to the responsible committees for academic commissions for comment.

#### **§ 15 Total grade and peremptory failure**

(1) <sup>1</sup>The right to sit the examination expires permanently beyond the cases regulated in the APO, if this course of study or a comparable master course of study at a university in Germany or abroad

a) by the end of the 4th subject semester, at least 60 credits have not been acquired or

b) by the end of the 8th subject semester all credits that are required to pass the master's examination have not been acquired.

<sup>2</sup>In this case, the master's examination is regarded as definitively failed. <sup>3</sup>Exceeding the deadlines mentioned under a) and b) is permissible if the student is not responsible for the deadline being exceeded. <sup>4</sup>The examination board decides on this at the request of the student, who has to show an important reason.

(2) A decision shall be issued on the final failure of the master's examination, which shall be accompanied by a declaration of appeal.

(3) The overall result "With distinction" will be awarded if the master's thesis has been assessed with a grade of 1.0 and the grade point average of the other examination prerequisites is at least 1.5.

#### **§ 15a Double/Joint degree option within the scope of the "PlantHealth" programme**

(1) <sup>1</sup>The Universitat Politècnica de València (Spain), the Montpellier SupAgro, Montpellier (France), the AGROCAMPUS OUEST, Rennes (France), the Institut des sciences et industries du vivant et de l'environnement (AgroParisTech), Paris (France), the Università degli Studi di Padova, Padua (Italy), and the Georg-August-Universität Göttingen (hereafter: partner universities; the French partners are considered jointly as a partner university) jointly carry out the programme "PlantHealth - European Master Degree in PLANT HEALTH IN SUSTAINABLE CROPPING SYSTEMS" (abbreviated: "PlantHealth"). <sup>2</sup>The provisions of these examination and study regulations shall apply,

provided that the following does not stipulate any other procedure. <sup>3</sup>The regulations in place at the partner university in question shall apply exclusively to the modules offered by the partner universities.

(2) Students in the consecutive Master's degree programme "Crop Protection" are entitled to participate in the study and examination components of the programme "Plant Health" in accordance with the following provisions.

(3) <sup>1</sup>The application for consideration in the "Plant Health" programme must be submitted at the same time as the application for admission to the Master's degree programme "Crop Protection".

<sup>2</sup>The admission requirement for modules of the first academic year is the commitment of a partner university that a university place is available for the applicant in the second year of study. <sup>3</sup>The admission requirement for second-year modules is proof of examination and study credits from modules of the "Plant Health" programme amounting to a total of at least 48 C acquired at the Universitat Politècnica de València (Spain). <sup>4</sup>If the first year of study was completed at the University of Göttingen, the second year of study must be completed at one of the partner universities.

(4) <sup>1</sup>Deviating from § 4 section 1, 3, students within the scope of the "Plant Health" programme must successfully complete special examination and study achievements in accordance with Appendix I. The study and examination programme is held completely in English. <sup>2</sup>Examination and study credits awarded at one of the partner universities as part of the "Plant Health" programme are recognised without equivalence assessment.

(5) <sup>1</sup>Repeat examinations for failed module examinations are to be offered in such a way that they can be taken before the end of the respective academic year. <sup>2</sup>Repeat examinations for failed module examinations can also be taken at a partner university. <sup>3</sup>The examination conditions of the partner university offering the module shall apply. Assessment is performed by examiners of the partner university offering the module.

(6) <sup>1</sup>Examiners can be appointed by various partner universities as supervisors of the master's thesis and who are also responsible for the assessment of the master's thesis. <sup>2</sup>The partner university at which the first supervisor is active is responsible for the appointment and the examination procedure. The respective procedural regulations of this partner university shall apply.

(7) <sup>1</sup>After passing the master's examination, those partner universities in which the candidate has successfully completed the study course and examination components of the "PlantHealth" programme, amounting to at least 48 C, award the respective national university degree. The University of Göttingen awards the university degree "Master of Science" (M.Sc.) <sup>2</sup>The master degree certificate of the University of Göttingen is issued in German or English and contains the addition that the Master's degree was acquired as part of a double degree programme and the certificate is valid only in conjunction with the certificate of the other partner university granting the

degree. <sup>3</sup>The two degrees conferred can be taken separately. <sup>4</sup>In the event that both university degrees are listed as titles, they shall be connected by a slash. <sup>5</sup>The same applies to the abbreviated form.

### **§ 16 Entry into force; interim regulations**

(1) These examination regulations come into force on the day after their university-wide publication in the official announcements of the Georg-August-Universität Göttingen.

(2) <sup>1</sup>Students who commenced their academic programme before an amendment to these examination and study regulations came into force and who have remained enrolled therein without interruption will be examined on the basis of the examination and study regulations in place before the amendments came into force. <sup>2</sup>In the case of pending examinations, this does not apply to module overviews and descriptions, unless the legal entitlements of a student calls for a different decision by the examination board. <sup>3</sup>A different decision can be reached especially in cases where an examination can be repeated or a compulsory or elective compulsory module has changed significantly or been cancelled. <sup>4</sup>The examination board can draw up general rules for this purpose. <sup>5</sup>Examinations on the basis of a valid version prior to an amendment of the existing examination and study regulations coming into force are conducted for the last time in the fourth semester after the amendment has come into force. <sup>6</sup>On application, students affected by sentence 1 shall be examined in general on the basis of the amended regulations.

## Appendix I: Module directory

### 1. Master's degree programme "Crop Protection"

The following examination components with a rating of at least 120 C should be successfully completed:

#### a) Subject-specific studies – compulsory modules

The following obligatory modules amounting to a total of 30 C must be completed successfully.

M.Cp.0002	Internship	(9 C, 6 WLH)
M.Cp.0006	Pesticides I: Mode of Action and Application Techniques, Resistance to Pesticides	(6 C, 4 WLH)
M.Cp.0007	Pesticides II: Toxicology, Ecotoxicology, Environmental Metabolism, Regulation and Registration	(6 C, 4 WLH)
M.Cp.0017	Scientific Presenting, Writing and Publishing in Crop Protection	(3 C, 2 WLH)
M.Cp.0018	Journal Club on New Topics in Crop Protection	(3 C, 2 WLH)
M.Cp.0019	Basic Laboratory Techniques	(3 C, 2 WLH)

#### b) Area of professionalisation

##### aa) Elective compulsory modules

Elective compulsory modules amounting to a total of at least 54 C must be completed successfully. Up to 18 C in the area of professionalisation can be taken by modules from other master courses of studies in the Agricultural Sciences of the University of Göttingen. In addition, upon request to the examination board, a module amounting to a maximum of 6 C from a master course of study of another faculty may be taken and credited for the area of professionalisation.

M.Agr.0003	Agribusiness Sugar Beet - an advanced education for graduate students and junior employees of the sugar supply chain	(6 C)
M.Agr.0009	Biological Control and Biodiversity	(6 C, 4 WLH)
M.Agr.0010	Biotechnological Applications in Plant Breeding	(6 C, 4 WLH)
M.Agr.0023	Interactions between plants and pathogens	(6 C, 4 WLH)
M.Agr.0039	Molecular Techniques in Phytopathology	(6 C, 4 WLH)
M.Agr.0045	Mycology	(6 C, 6 WLH)
M.Agr.0056	Plant breeding methodology and genetic resources	(6 C, 4 WLH)
M.Agr.0057	Plant Virology	(6 C, 6 WLH)
M.Agr.0058	Plant herbivore interactions	(6 C, 4 WLH)
M.Agr.0094	Basics of Molecular Biology in Crop Protection	(6 C, 4 WLH)
M.Agr.0120	Molecular Diagnostic and Biotechnology in Crop Protection	(6 C, 4 WLH)
M.Agr.0146	Nematology	(3 C, 4 WLH)

M.Agr.0175	Plant-Herbivore Interactions (Experimental course)	(3 C, 2 WLH)
M.CP.0020	Ecotoxicological Risk Assessment for Plant Protection Products	(3 C, 2 WLH)
M.CP.0021	Plant Health Internship	(6 C)
M.Cp.0004	Plant Diseases and Pests in Temperate Climate Zones	(6 C, 4 WLH)
M.Cp.0005	Integrated Management of Pests and Diseases	(6 C, 4 WLH)
M.Cp.0008	Fungal Toxins	(6 C, 4 WLH)
M.Cp.0010	Plant Pathology and Plant Protection Seminar	(3 C, 2 WLH)
M.Cp.0011	Agricultural Entomology Seminar	(3 C, 2 WLH)
M.Cp.0012	Weed Biology and Weed Management	(6 C, 4 WLH)
M.Cp.0014	Plant Nutrition and Plant Health	(3 C, 2 WLH)
M.Cp.0015	Molecular Weed Science	(6 C, 4 WLH)
M.SIA.E13M	Microeconomic Theory and Quantitative Methods of Agricultural Production	(6 C, 4 WLH)
M.SIA.P07	Soil and plant science	(6 C, 4 WLH)
M.SIA.P15M	Methods and advances in plant protection	(6 C, 4 WLH)
M.SIA.P22	Management of tropical plant production systems	(6 C, 4 WLH)

### **bb) Key competencies**

At least one of two elective compulsory modules amounting to 6 C must be completed successfully.

M.Cp.0016	Practical Statistics and Experimental Design in Agriculture	(6 C, 4 WLH)
M.WIWI-QMW.0004	Econometrics I	(6 C, 4 WLH)

### **c) Master's thesis**

24 C are awarded for successful completion of the master's thesis.

### **d) Colloquium for master's thesis**

6 C are awarded for successful completion of the colloquium on the master's thesis.

## **2.) Double/Joint degree programme "PlantHealth"**

### **a) First academic year**

Modules with a rating of at least 60 credits in total should be successfully completed in accordance with the following provisions.

#### **aa) Compulsory modules**

The following modules with a rating of 27 C in total must be successfully completed.

M.Cp.0016	Practical statistics and Experimental Design in Agriculture	(6 C, 4 WLH)
M.Cp.0017	Scientific Presenting, Writing and Publishing in Crop Protection	(3 C, 2 WLH)
M.Cp.0018	Journal Club on New Topics in Crop Protection	(3 C, 2 WLH)

M.Cp.0019	Basic Laboratory Techniques	(3 C, 2 WLH)
M.Cp.0004	Plant Diseases and Pests in Temperate Climate Zones	(6 C, 4 WLH)
M.Cp.0005	Integrated Management of Pests and Diseases	(6 C, 4 WLH)

**bb) Elective compulsory modules**

At least four of the following modules amounting to a total of at least 27 C must be completed successfully:

M.Cp.0002	Internship	(9 C, 6 WLH)
M.Cp.0006	Pesticides I: Mode of Action and Application Techniques, Resistance to Pesticides	(6 C, 4 WLH)
M.Cp.0012	Weed Biology and Weed Management	(6 C, 4 WLH)
M.Cp.0014	Plant Nutrition and Plant Health	(3 C, 2 WLH)
M.Agr.0058	Plant Herbivore Interactions	(6 C, 4 WLH)
M.Agr.0094	Basics of Molecular Biology in Crop Protection	(6 C, 4 WLH)

**cc) Key competencies**

Modules from the permitted range of the competence area language skills amounting to a total of at least 6 C must be completed successfully.

**b) Second academic year**

Modules with a rating of at least 60 credits in total should be successfully completed in accordance with the following provisions.

**aa) Compulsory modules**

The following module with a rating of 6 C must be successfully completed:

M.Cp.0007	Pesticides II: Toxicology, Ecotoxicology, Environmental Metabolism, Regulation and Registration	(6 C, 4 WLH)
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**bb) Elective compulsory modules**

Four of the following modules amounting to 24 C in total have to be completed successfully:

M.Agr.0058	Plant herbivore interactions	(6 C, 4 WLH)
M.Cp.0008	Fungal Toxins	(6 C, 4 WLH)
M.Agr.0023	Interactions between Plants and Pathogens	(6 C, 4 WLH)
M.Agr.0039	Molecular Techniques in Phytopathology	(6 C, 4 WLH)
M.Agr.0057	Plant Virology	(6 C, 6 WLH)

**cc) Master's thesis**

24 C are awarded for successful completion of the master's thesis.

**dd) Colloquium for the master's thesis**

By successfully completing the colloquium on the master's thesis, 6 C will be acquired.



## Appendix II: Sample curriculum

Sem. Σ C	Subject-specific studies (84 C)						Key competencies (6 C)
	Module	Module	Module	Module	Module	Module	Module
1. Σ 30 C	M.Cp.0019 Basic laboratory techniques 3 C	M.Cp.0005 Integrated Management of Pests and Diseases 6 C	M.Cp.0014 Plant nutrition and Plant Health 3 C	M.Cp.0006 Pesticides I: Mode of action and application techniques, resistance to pesticides 6 C	M.Cp.0012 Weed biology and Weed Management 6 C	M.Agr.0045 Mycology 6 C	
2. Σ 30 C	M.Cp.0017 Scientific presenting, writing and publishing in crop protection 3 C	M.Cp.0018 Journal club on New Topic in Crop Protection 3 C	M.Cp.0004 Plant Diseases and Pests in Temperate Climate Zones 6 C	M.Cp.0015 Molecular Weed Science 6 C	M.Cp.0021 Plant Health Internship 6 C		M.Cp.0016 Practical statistics and experimental design in agriculture 6 C
3. Σ 30 C	M.Cp.0002 Internship 9 C	M.Cp.0007 Pesticides II: Toxicology, Ecotoxicology, Environmental Metabolism, Regulation and Registration 6 C	M.Cp.0011 Agricultural entomology seminar 3 C	M.Agr.0058 Plant herbivore interactions 6 C	M.Agr.0039 Molecular techniques in phytopathology 6 C		
4. Σ 30 C	Master's thesis 24 C				Colloquium for master's thesis 6 C		
Σ 120 C	84 C + (24 C+6 C)						6 C

### Appendix III: Sample curricula (Double/Joint degree programme "PlantHealth")

#### a. First academic year

Sem. Σ C	Subject-specific studies (54 C)						Key competencies (6 C)
	Module	Module	Module	Module	Module	Module	Module
1. Σ 30 C	M.Cp.0019 Basic Laboratory Techniques 3 C	M.Cp.0005 Integrated Management of Pests and Diseases 6 C	M.Cp.0006 "Pesticides I: Mode of Action and Application Techniques, Resistance to Pesticides" 6 C	M.Cp.0014 "Plant Nutrition and Plant Health" 3 C	M.Agr.0058 "Plant Herbivore Interactions" 6 C		Language course, e.g., SK.DaF-A1.1 German – Basic course 1 6 C
2. Σ 30 C	M.Cp.0017 "Scientific Presenting, Writing and Publishing in Crop Protection" 3 C	M.Cp.0018 "Journal Club on New Topics in Crop Protection" 3 C	M.Cp.0004 "Plant Diseases and Pests in Temperate Climate Zones" 6 C	M.Cp.0016 " Practical statistics and experimental design in agriculture" 6 C	M.Cp.0013 "Applied Weed Science" 6 C	M.Agr.0094 "Basics of Molecular Biology in Crop Protection" 6 C	
Σ 60 C	54 C						6 C

b. Second academic year

Sem. Σ C	Subject-specific studies (60 C)						
	Module	Module	Module	Module	Module	Module	Module
3. Σ 30 C	M.Cp.0007 "Pesticides II: Toxicology, Ecotoxicology, Environmental Metabolism, Regulation and Registration" 6 C	M.Cp.0008 "Fungal Toxins" 6 C	M.Agr.0023 "Interactions between plants and pathogens" 6 C	M.Agr.0039 "Molecular Techniques in Phytopathology" 6 C	M.Agr.0057 "Plant Virology" 6 C		
4. Σ 30 C	Master's thesis 24 C					Colloquium for master's thesis 6 C	
Σ 60 C							