Only those regulations published by the Georg-August-Universität Göttingen in its Official Bulletins are legally binding. Any claims to rights or titles resulting from the English translation of these regulations are expressly excluded.

Faculty of Agricultural Sciences:

Following the decision of the Faculty Council of the Faculty of Agricultural Sciences on 05.06.2025, the Presidential Board of the Georg-August University approved the first amendment to the "Examination and Study Regulations for Master's Degree Programmes of the Faculty of Agricultural Sciences" on 06.08.2025 in the version published on 31.08.2023 (Official announcements I Nr. 26/2023 p. 835) (§ 44 section 1 sentence 2 NHG in the version of the announcement of 26.02.2007 (Nds. GVBl. p. 69), last amended by Article 14 of the Act of 13.12.2024 (Nds. GVBl. p. 118); § 37 section 1 sentence 3 no. 5 b NHG, § 44 section 1 sentence 3 NHG).Following a decision by the Faculty Council of the Faculty of Agricultural Sciences on 6 July 2023, the Presidential Board of the Georg-August University approved the examination and study regulations for Master's degree programmes in the Faculty of Agricultural Sciences on 24 August 2023 (Section 44 section. 1 sentence 2 NHG in the version published on 26 February 2007 (Nds. GVBl. p. 69), last amended by Article 7 of the Act of 23 March 2022 (Nds. GVBl. p. 218); § 37 section 1 sentence 3 no. 5 b NHG, § 44 section 1 sentence 3 NHG).

Examination and study regulations for Master's degree programmes of the Faculty of Agricultural Sciences of the University of Göttingen

Table of Contents

§ 1 Scope of application

(1) For the consecutive Master's degree programmes "Agricultural Sciences", "Crop Protection", "Integrated Plant and Animal Breeding" and "Equine Sciences" of the University of Göttingen are subject to the provisions of the General Examination Regulations for Bachelor's and Master's degree programmes and other degree programmes at the University of Göttingen (APO) as amended.

(2) These examination and study regulations (PStO-MA) regulate the further provisions for the completion of studies in the degree programmes according to section 1.

§ 2 Aim of the programme; purpose of the examination; academic degree

(1) The research-oriented consecutive Master's degree programmes build on a relevant Bachelor's degree programme and offer a second professionally qualifying degree.
(2) [1]The aim of the degree programme is to acquire in-depth subject-specific knowledge and the ability to convey the fundamental theories, methods, procedures and problems of the subject in an interdisciplinary approach. [2]The aim of imparting in-depth knowledge of the respective subject as well as the relevant theories and methods is to enable students to independently formulate and analyse scientific questions, derive social, scientific and ethical insights from them and thus be able to work as a scientist in a specialised professional field. [3]Graduates should also be able to define and interpret the special features, boundaries, terminology and doctrines of the subject. [4]They should also be able to acquire new knowledge through self-study and carry out research-oriented projects independently. [5]To this end, they should be able to work at the cutting edge of research, follow the rules of good scientific practice, exchange ideas at a scientific level and take on positions of responsibility in a team. [6]In addition to the specific academic knowledge, the Master's degree programme also imparts key competencies both for admission to a doctoral degree programme and for successful direct entry into a career.

(3) The examinations during the research-oriented Master's degree programme determine whether the candidate has acquired the specialist knowledge and key competencies necessary

for the study objectives and the transition to professional practice, has an overview of the relevant specialist contexts and has the ability to work according to scientific principles, to reflect on and assess scientific findings and to impart acquired knowledge.

(4) The academic degree "Master of Science" (M.Sc.) is awarded on the basis of a successful Master's examination in one of the degree programmes according to § 1 section 1.
(5) The subject-specific provisions (Annexes 1 to 4) regulate the details of the qualification objectives of the degree programmes in accordance with § 1 section 1.

§ 3 Teaching and learning methods; admission to courses with a limited number of places

(1) [1]Modules may consist of different types of courses: Lectures, seminars, tutorials, practicals and project work or combinations of these types of courses. [2]Supplementary courses are offered to deepen knowledge of the subject matter.

(2) [1]Certain courses are organised with a limited number of participants. [2]These include

Field practicals, excursions, exercises, practicals and seminars.

[3]The lecturers of these courses shall inform the students of the intended number of participants.

(3) [1]Students who are required to attend a course in order to register for a module examination shall be given priority for admission to courses with a limited number of participants. [2]Priority shall be given to students who are in the highest semester and can prove that they have studied properly or are not responsible for a delay in their studies. [3]The selection of students with equal rights shall be made by drawing lots. [4]Deferral due to a lack of proof in accordance with sentence 2 is permitted a maximum of twice.

(4) Special circumstances according to section 3 sentence 2 are Disability as well as chronic or prolonged illness, insofar as the occurrence of a delay in the study period would otherwise be probable, Pregnancy or caring for a child up to the age of 14 in one's own household, caring for close relatives within the meaning of § 7 section 3 of the Caregiver Leave Act, other circumstances that would entitle the student to compensation for disadvantages in the case of a study or examination performance in accordance with § 21 section 1 APO.

§ 4 Subject-specific forms of examination

(1) In addition to the forms of examinations provided for in the APO, a module examination may also be organised as a project, portfolio or test.

(2) [1]In a project assignment, the student should demonstrate that he/she is able to independently work on a complex problem in which solutions are developed independently on the basis of scientific methods. [2]This may involve case studies, empirical investigations or similar tasks. [3]The

examination consists of an oral presentation and/or an elaboration of the results in text form. (3) [1]Tests are used in particular to certify academic achievements in the context of exercises and laboratory practicals. [2]In the case of tests, the student should demonstrate that he/she can apply the knowledge taught and/or has practised the subject-specific methods. The performance assessment takes place continuously either before, during or immediately after completion of the relevant module courses. [3]The examination consists of regular short oral tests or tests in text form on the subject matter. [4]Further details can be found in the module description.

§ 5 Structure of the degree programme

(1) [1]The degree programme comprises 120 credits (ECTS credits; abbreviated to C). [2]The standard period of study is 4 semesters.(2) The subject-specific provisions (Annexes 1 to 4) regulate further details on the start of studies, the structure of the degree programme and suitability for part-time study as well as, if applicable, the specialisations of the chosen degree programme.

(3) [1]The coursework and examinations are to be completed in compulsory, compulsory elective and elective modules. [2]The module catalogues of the degree programmes according to § 1 section 1, which also contain the module overview as defined in § 4 section 1 sentence 1 APO, are published separately; they are part of these examination and study regulations.

(4) [1]Admission of modules from related Master's degree programmes is granted by the Examination Board at the student's request.

(5) The module overview in the degree programme "Agricultural Sciences" also regulates the module package "Agricultural Sciences", which can be included in other suitable Master's degree programmes to the extent of 36 C.

(6) For degree programmes in accordance with § 1 section 1, which enable joint degrees in cooperation with partner universities, the subject-specific provisions contain further details.

§ 6 Admission to the Master thesis

(1) As a prerequisite for admission to the Master thesis, compulsory elective modules of the respective degree programme amounting to 72 C must be passed; in the Master's degree programme "Crop Protection", compulsory modules amounting to 18 C must be completed. (2) [1]Admission to the Master thesis must be applied for in writing to the relevant examination board. [2]The following documents must be enclosed:

a) Proof of fulfilment of the requirements in accordance with section 1, insofar as the required achievements are not stored in the examination administration system,

b) the proposed topic for the Master thesis,

c) a proposal for the first supervisor and the second supervisor,

d) a confirmation from the first supervisor and second supervisor in text form,

e) a declaration that it is not the case that the Master's examination in the same or a comparable Master's degree programme at a university in Germany or abroad has been definitively failed or is deemed to have been definitively failed.

[3]The proposals under letters b) and c) and the proof under letter d) are not required if the student assures that he or she has not found a supervisor. [4]In this case, the responsible examination board shall appoint supervisors and determine the topic of the Master thesis. [5]The student must be consulted on the choice of topic. [6]The right to suggest a topic does not constitute a legal claim.
(3) [1]The Examination Board shall decide on admission. [2]This is to be refused if the admission requirements are not fulfilled or if the Master's examination in the same or a comparable Master's degree programme at a university in Germany or abroad has been definitively failed or is deemed to have been definitively failed.

§ 7 Master thesis

(1) [1]The Master thesis should demonstrate that the student is able to work on a problem within the specified period of time using the methods of their subject area, develop an independent, scientifically based judgement, arrive at scientifically sound statements and present the results appropriately in terms of language and form.

(2) [1]The Master thesis may be written in German or English. [2]In the English-language degree programmes, the Master thesis shall be written in English, in deviation from sentence 1.
(3) [1]The topic of the Master thesis must be chosen from the area of the chosen Master's degree programme and, if applicable, the chosen specialisation. [2]The topic of the Master thesis shall be issued by the responsible examination office, which must observe the procedural rules issued by the Faculty Council for this purpose.[3]The time of issue must be recorded.
(4)[1]The processing time for the Master thesis is 6 months. [2]Upon application by the student and in agreement with the first supervisor, the responsible examination board may extend the processing time by a maximum of 2 months if there is an important reason not attributable to the student. [3]An important reason is usually an illness, which must be reported immediately and documented by a medical certificate.

(5) [1]The topic can only be returned once and only within the first ten weeks of the processing time. [2]A new topic must be agreed immediately, but at the latest within 4 weeks. [3]If the Master thesis is repeated, the topic may only be returned in accordance with sentence 1 if the student did not make use of this option in the first examination attempt.

(6) [1]The Master thesis must be submitted to the responsible examination office by the deadline exclusively in text form in the format of a commonly used word processing programme or in PDF format (unprotected); it is submitted via the examination administration system. [2]The time of submission must be recorded. [3]When submitting the thesis, the student must confirm that he/she has written the thesis independently and has not used any sources or aids other than those specified. [4]An assessor may request that the student also submits the thesis in written form; in this case, a claim to assessment shall only arise after submission of the written form; the student must ensure that the written form and the version submitted in accordance with sentence 1 correspond. [5]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.

(7) [1]The examination committee forwards the Master thesis to the first supervisor and second Supervisor as reviewers.

(8) The duration of the assessment procedure should not exceed 6 weeks.

§ 8 Colloquium for the Master thesis

(1)[1]In the colloquium, the student must demonstrate in a discussion about their Master thesis following their short introductory presentation that they are able to work independently on interdisciplinary and problem-related issues on a scientific basis and to classify them in the overall field of the chosen degree programme. [2]The duration of the colloquium is approx. 60 minutes.

(2) For admission to the colloquium, the Master thesis must have been assessed as at least "sufficient".

(3) The colloquium should be held within six weeks of submission of the Master thesis.

(4) [1]The colloquium is conducted jointly by the assessors of the Master thesis as an examination. [2]In the case of interdisciplinary topics, the Examination Board may appoint up to two further examiners for the colloquium in agreement with the examinee.

(5) The colloquium is open to the public.

§ 9 Assessment of the Master thesis and the Master thesis colloquium

(1) [1]The grade of the Master thesis is calculated as the arithmetic mean of the assessments of the two assessors. [2]If the difference is at least 1.0 or if one grade is "insufficient" but the other is "sufficient" or better, the responsible examination board will appoint a third assessor to assess the Master thesis, whose assessment alone will constitute the examination grade.

(2) The grade of the colloquium for the Master thesis is the arithmetic mean of the assessment of the two assessors or all examiners involved.

(3) [1]A joint grade is calculated for the Master thesis and the Master thesis colloquium. [2]This shall correspond to the weighted arithmetic mean of the grades for the Master thesis and the Master thesis colloquium; the grade for the Master thesis shall be weighted at 80 per cent and the grade for the Master thesis colloquium at 20 per cent. [3]The joint grade is included in the overall result of the Master's examination with a weighting of 30 C.

§ 10 Repeatability of examinations

(1) Failed module examinations may be repeated twice, the Master thesis and the colloquium for the Master thesis may be repeated once.

(2) [1]Repeat examinations for required compulsory elective modules must be taken within a reasonable period of time. [2]They should be taken in the next examination period, but at the latest within one year of the unsuccessful examination. [3]If the deadline is exceeded the corresponding further examination attempt is deemed to have been failed if the student is responsible for this. [4]In the event of important reasons, in particular illness, the examination board will grant an appropriate extension of the deadline. [5]The student to be examined shall be informed of the possibility of repeating the failed examinations, taking into account the deadline in sentences 1 and 2.

(3) A retake of passed examinations for the purpose of grade improvement is excluded.

§ 11 Examination board

(1) [1]The Examination Board consists of five members who are appointed by the respective group representatives in the Faculty Council, namely three members of the university lecturers' group, one member of the staff group and one member of the student group. [2]An additional deputy must be appointed from each group.

(2) The Examination Board elects its chairperson and deputy chairperson from the group of university lecturers.

(3) The Dean of Studies is a member of the board in an advisory capacity.

(4) The Examination Board replaces the Faculty Council when making decisions on the appointment of authorised examiners in accordance with § 11 section 1 sentence 1 APO

§ 12 Overall result and final failure

(1) The Master's examination is passed if at least 120 C have been earned and all required module examinations and the Master thesis (including the colloquium for the Master thesis) have been passed.

(2) The overall grade of the final examination is calculated as the arithmetic mean, weighted according to credits, of the grades of all graded modules and the joint grade of the Master thesis and the colloquium for the Master thesis.

(3) [1]The right to take examinations is definitively extinguished if, in the chosen degree programme or a comparable Master's degree programme at a university in Germany or abroad

a) compulsory elective modules can no longer be passed to the required minimum standard,
b) the Master thesis has not been passed at the second attempt or is deemed to have been failed,
c) the colloquium for the Master thesis was not passed at the second attempt or is deemed to have been failed,
d) this results from the provisions of the module overview,
e) not all credits required to pass the Master's examination have been earned by the end of the 8th semester.

[2]In this case, the Master's examination in the chosen degree programme is deemed to have been definitively failed.

(4) The overall result "with distinction" is awarded if the Master thesis was graded with 1.0 and the average grade of the other coursework is at least 1.5.

§ 13 Degree programme with a semester abroad

(1) Students may spend one semester abroad for field research for their Master thesis.
(2) If a Master thesis is written abroad, the supervision of the Master thesis is organised via learning agreements with the supervisor there.

§ 14 Student counselling and study organisation

(1) [1]Study beginners are introduced to the programme and the degree course in an orientation unit. [2]It is held during the semester or as a block course. [3]All members of the teaching staff are responsible for organising the course.

(2) [1]In addition to the orientation unit, a permanent student counselling service is offered. [2]The tasks of this are

- Counselling students in the planning and implementation of their studies;
- Receiving suggestions for improving teaching;
- Counselling on recognition and admission issues;
- Support for foreign students;
- Organisation of lecturer exchanges,

- Initiating, managing and maintaining international relations;
- Organisation of teaching imports and exports;
- Support in the organisation of local student congresses and workshops.

(3) Students should make use of study counselling in the following cases in particular:

- after failing examinations twice;
- in the event of deviations from the standard period of study;
- in the event of a change of specialisation, degree programme or university;
- before a planned study abroad programme.

§ 15 Entry into force; transitional provisions

(1) These regulations shall enter into force on 1 October 2023 following their publication in the Official Announcements I of the University of Göttingen.

(2) At the same time

a) the examination and study regulations for the consecutive Master's degree programme "Agricultural Sciences" in the version published on 13 March 2012 (Official announcements I No. 7/2012 p. 116), last amended by the Presidential Board's resolution of 27 February 2023 (Official announcements I No. 7/2023 p. 168),

b) the examination and study regulations for the consecutive Master's degree programme "Crop Pro-tection" in the version published on 9 June 2010 (Official announcements No. 12/2010 p. 1045), last amended by resolution of the Presidential Board dated 31 January 2022 (Official announcements I No. 6/2022 p. 58),

c) the examination and study regulations for the consecutive Master's degree programme "Integrated Plant and Animal Breeding" in the version published on 12 February 2019 (Official announcements I Nr. 7/2019 p. 60), last amended by resolution of the Presidential Board dated 31 January 2022 (Official announcements I Nr. 6/2022 p. 61) and

d) the examination and study regulations for the consecutive Master's degree programme "Equine Sciences" in the version published on 13 March 2012 (Official announcements I No. 7/2012 p. 142), last amended by resolution of the Presidential Board dated 15 September 2021 (Official Announcements I No. 43/2021 p. 1070),

out of force.

(3) [1]Students who began their studies before these Examination and Study Regulations for Master's degree programmes at the Faculty of Agricultural Sciences came into force and were enrolled without interruption in one of the degree programmes in accordance with Section 1 (1) shall be examined in accordance with these regulations. [2]This does not apply to module overviews

and module descriptions in the case of examinations still to be taken, unless the protection of a student's legitimate expectations requires a different decision by the Examination Board. [3]A deviating decision is possible in particular in cases in which an examination can be repeated or a compulsory or required elective module has been significantly changed or cancelled. [4]The Examination Board may make general regulations in this regard. [5]Upon application, students pursuant to sentence 1 shall be examined as a whole in accordance with the provisions of the examination and study regulations applicable until then within the meaning of section 2; the application must be submitted within the first 6 months after the present regulations come into force. [6]Examinations in accordance with the provisions of the regulations within the meaning of section 2 shall be held for the last time in the summer semester 2026.

Annex 1 - Subject-specific provisions for the consecutive Master's degree programme in Agricultural Sciences

I. Aims of the programme; professional fields

(1) Agricultural Sciences with its sub-disciplines Agribusiness, Crop Sciences, Livestock Sciences, Resource Management as well as Economic and Social Sciences of Agriculture deal with all questions relating to the primary production of human and animal food as well as renewable raw materials and deal with the current and future state of production technology and the economic and social structure of agriculture, as well as its effects on society, the economy and the environment.

(2) The general and subject-related objectives of the Master's degree programme in Agricultural Sciences include the acquisition of the following scientific knowledge and skills:

- of dedicated knowledge of the sub-disciplines of agricultural science, as well as their methods and working methods;
- the ability to collect, visualise and analyse agricultural data;
- the ability to apply complicated agricultural-analytical laboratory methods or technical procedures or qualitative and quantitative survey methods and to interpret their results;
- the ability to process and visualise complex analytical, structural and other data using agricultural informatics methods;
- the ability to use and evaluate agricultural literature, statistics and other documentation at a scientific level;
- the ability to present research results in written, oral and graphic form;
- the ability to carry out largely self-directed independent research or application-orientated projects and
- the ability to assess the effects of the activities of agricultural scientists from a social, scientific and ethical point of view.

(3) In addition, the degree programme enables the development of key competencies such as networked thinking, dealing with foreign-language texts, scientific writing and presentation techniques, which enable students to communicate conclusions and the underlying information and motivations to specialists and laypersons in a clear and unambiguous manner based on the current state of research and application.

(4) Graduates of the "Master of Science - Agricultural Sciences" degree programme are predominantly employed as managers

- in companies in the agriculture and food industry,
- in specialised business management or production technology consulting,
- in upstream and downstream sectors, for example in the animal feed or agricultural machinery industry, the chemical industry and seed production,
- in the food industry, e.g. in the food industry, food wholesaling or food research,
- in other service industries, e.g. as an expert or consultant,
- in the public sector, e.g. at chambers of agriculture and ministries,
- in international organisations,
- in environmental protection and landscape design,
- at universities and in research institutions.

II. Structure of the degree programme

(1) The degree programme begins in the winter and summer semesters.
(2) The degree programme is not suitable for part-time study.
(3) The degree programme comprises 120 credits (ECTS credits; abbreviated to C), which are distributed as follows:

a) to the specialised degree programme 78 C,
b) to the professionalisation area (key competencies) 12 C,
c) to the Master thesis (including 6C for a colloquium on the Master thesis) 30 C.

(4) A recommendation for the appropriate structure of the degree programme can be found in the exemplary study plans in Section V.

III. Study specialisations

(1) The Master's degree programme offers five specialisations: "Agribusiness", "Crop Sciences", "Livestock Sciences", "Resource Management" and "Economics and Social Sciences of Agriculture", one of which must be chosen when registering for the first module examination.
(2) Students may change their specialisation upon application to the Examination Board.
(3) The module overview regulates the details.

IV. Joint degree as part of the Erasmus Mundus programme "International Master of Science in Soils and Global Change" (IMSOGLO)

(1) [1]The Universiteit Gent (Ghent, Belgium), Aarhus Universitet (Aarhus, Denmark), the University of Natural Resources and Life Sciences Vienna (Vienna, Austria) and the University of Göttingen (hereinafter: partner universities) jointly run the joint degree programme "International Master of Science in Soils and Global Change" (IMSOGLO)". [2]The provisions of these Examination and Study Regulations apply, unless otherwise specified below. [3]For modules offered by one of the partner universities, only the regulations of this partner university apply.

(2) The purpose of the programme is to train students worldwide to meet the rapidly growing needs of industry and the consulting, service and research sectors for the sustainable management and use of soil as a resource under changing environmental and framework conditions.

(3) Those entitled to participate in the study and examination services of the joint degree programme are selected and admitted by the University of Ghent (Ghent, Belgium).

(4) The admission requirement is proof of examination and study achievements from modules of the joint degree programme totalling at least 60 C, 30 C each at two of the following three universities: Universiteit Gent (Ghent, Belgium), Aarhus Universitet (Aarhus, Denmark) and Universität für Bodenkultur Wien (Vienna, Austria).

(5) [1]Students on the joint degree programme must successfully complete special examinations and coursework in accordance with the module catalogue, notwithstanding Section II (3) and (4); the courses and examinations offered are taught entirely in English. [2]Examinations and coursework completed at one of the partner universities as part of the joint degree programme will be recognised without an equivalence assessment.

(6) Repeat examinations for failed module examinations must be offered in such a way that they can be taken before the end of the respective semester.

(7) [1]Students on the joint degree programme must complete the Master thesis to the extent of 30 C, in deviation from Section II section 3 c). [2]The supervisors of the Master thesis, who are also responsible for the assessment of the Master thesis, may be members of two different partner universities who are authorised to conduct examinations. [3]The partner university at which the first supervisor works is responsible for the appointment and the examination procedure; the respective procedural regulations of this partner university apply. [4]The Master thesis must be written in English.

(8) [1]After passing the Master's examination, those partner universities at which the candidate has successfully completed study and examination achievements of the joint degree programme amounting to at least 30 C shall jointly award the degree "Master of Science" (abbreviated to "M.Sc."). [2]The University of Ghent shall issue a certificate in English on behalf of the partner

universities in accordance with sentence 1 for the jointly awarded degree.

(9) In addition to § 11 section 3 Sentence 1, the right to take examinations is definitively extinguished if modules of the joint degree programme can no longer be passed to the required extent.

V. Exemplary study plans

a. Course of study for the MSc degree programme in Agricultural Sciences, specialising in Agribusiness

Sem. **Σ C***	**Specialised modules**					**Key competencies modules**	
	Module	Module	Module	Module	Module	Module	Module
1. **Σ 30 C**	Agribusiness, Block A Compulsory elective module 1 6 C	Agribusiness, Block A Compulsory elective module 2 6 C	Agribusiness, Block B Compulsory elective module 1 6 C	Agribusiness, Block B Compulsory elective module 2 6 C	Agribusiness, Block B Compulsory elective module 3 6 C		
2. **Σ 30 C**	Agribusiness, Block A Compulsory elective module 3 6 C	Agribusiness, Block B Compulsory elective module 4 6 C	Agribusiness, Block B Compulsory elective module 5 6 C			Compulsory elective module Block C M.Agr.0012: Empirical Methods: Market Research and Consumer Behaviour 6 C	Compulsory module Block C M.Agrar.0077: Topic-centred seminar 6 C
3. **Σ 30 C**	Subject-specific elective module 1 from all specialisations 6 C	Subject-specific elective module 2 from all specialisations 6 C	Subject-specific elective module 3 from all specialisations 6 C	Subject-specific elective module 4 from all specialisations 6 C	Subject-specific elective module 5 from all specialisations 6 C		
4. **Σ 30 C**	**Master thesis + colloquium** 24 C + 6 C						
Σ 120 C							

b. Course of study for the MSc degree programme in Agricultural Sciences, specialising in Crop Sciences

Sem. **Σ C***	**Specialised modules**					**Key competencies modules**	
	Module	Module	Module	Module	Module	Module	Module
1. **Σ 30 C**	Crops, Block A Compulsory elective module 1 6 C	Crops, Block A Compulsory elective module 2 6 C	Crop , Block B Compulsory elective module 1 6 C	Crops, Block B Compulsory elective module 2 6 C			Compulsory module, Block C M.Agr.0035: Methodological work: Interdisciplinary seminar 6 C
2. **Σ 30 C**	Crops, Block A Compulsory elective module 3 6 C	Crops, Block B Compulsory elective module 3 6 C	Crops, Block B Compulsory elective module 4 6 C	Crops, Block B Compulsory elective module 5 6 C	Subject-specific elective module 1 from all specialisations 6 C		
3. **Σ 30 C**	Subject-specific elective module 2 from all specialisations 6 C	Subject-specific elective module 3 from all specialisations 6 C	Subject-specific elective module 4 from all specialisations 6 C	Subject-specific elective module 5 from all specialisations 6 C			Compulsory module, Block C M.Agr.0036: Methodical work: Experimental design and evaluation 6 C
4. **Σ 30 C**	**Master thesis + colloquium** 24 C + 6 C						
Σ 120 C							

c. Course of study for the MSc degree programme in Agricultural Sciences, specialising in Livestock Sciences

Sem. **Σ C***	**Specialised modules**					**Key competencies modules**	
	Module	Module	Module	Module	Module	Module	Module
1. **Σ 30 C**	Farm animal, Block A M.Agr.0040 Molekularbiologie und Biotechnologie in den Nutztierwissen-schaften 6 C	Farm animal, Block A M.Agr.0014 Ernährungs-physiologie 6 C	Farm animal, Block B Compulsory elective module 1 6 C	Farm animal, Block B Compulsory elective module 2 6 C			Compulsory module, Block C M.Agr.0036 Methodological work: Experimental design and evaluation 6 C
2. **Σ 30 C**	Farm animal, Block A M.Agr.0075.Mp: Spezielle Tierhygiene, Tierseuchenbe-kämpfung und Tierhaltung 6 C	Farm animal, Block B Compulsory elective module 3 6 C	Farm animal, Block B Compulsory elective module 4 6 C	Farm animal, Block B Compulsory elective module 5 6 C			Compulsory module, block C M.Agr.0068: Quantitative-genetic methods of animal breeding Seminar 6 C
3. **Σ 30 C**	Subject-specific elective module 2 from all specialisations 6 C	Subject-specific elective module 3 from all specialisations 6 C	Subject-specific elective module 4 from all specialisations 6 C	Subject-specific elective module 5 from all specialisations 6 C	Subject-specific elective module 1 from all specialisations 6 C		
4. **Σ 30 C**	**Master thesis + colloquium** 24 C + 6 C						
Σ 120 C							

d. Course of study for the MSc degree programme in Agricultural Sciences, specialising in Resource Management

Sem. **Σ C***	**Specialised modules**					**Key competencies modules**	
	Module	Module	Module	Module	Module	Module	Module
1. **Σ 30 C**	Resources, Block A M.Agr.0049 Naturschutzökonomie 6 C	Resources, Block A M.Agr.0052 Ökologie und Naturschutz 6 C	Resources, Block B Compulsory elective module 1 6 C	Resources, Block B Compulsory elective module 2 6 C			Compulsory module, Block C M.Agr.0036 Methodical work: Planning and analysing experiments 6 C
2. **Σ 30 C**	Resources, Block A M.Agr.0078: Umweltindikatoren und Ökobilanzen 6 C	Resources, Block B Compulsory elective module 3 6 C	Resources, Block B Compulsory elective module 4 6 C	Resources, Block B Compulsory elective module 5 6 C			Compulsory module, Block C M.Agr.0034: Methodical work: Interdisciplinary project work 6 C
3. **Σ 30 C**	Subject-specific elective module 2 from all specialisations 6 C	Subject-specific elective module 3 from all specialisations 6 C	Subject-specific elective module 4 from all specialisations 6 C	Subject-specific elective module 5 from all specialisations 6 C	Subject-specific elective module 1 from all specialisations 6 C		
4. **Σ 30 C**	**Master thesis + colloquium** 24 C + 6 C						
Σ 120 C							

e. Course of study of the MSc degree programme in Agricultural Sciences, specialising in Economics and Social Sciences of Agriculture

Sem. **Σ C***	**Specialised modules**					**Key competencies modules**	
	Module	Module	Module	Module	Module	Module	Module
1. **Σ 30 C**	WiSoLa, Block A M.Agr.0008 Micro- and welfare economics 6 C	WiSoLa, Block A M.Agr.0060 Production, investment and risk in agriculture 6 C	WiSoLa, Block B Compulsory elective module 1 6 C			Compulsory module, Block C B.WIWI-VWL.0007 Introduction to Econometrics 6 C	Compulsory module, Block C M.Agr.0077 Topic-centred seminar 6 C
2. **Σ 30 C**	WiSoLa, Block A M.Agr.0086: World agricultural markets 6 C	WiSoLa, Block B Compulsory elective module 3 6 C	WiSoLa, Block B Compulsory elective module 4 6 C	WiSoLa, Block B Compulsory elective module 5 6 C	WiSoLa, Block B Compulsory elective module 2 6 C		
3. **Σ 30 C**	Subject-specific elective module 2 from all specialisations 6 C	Subject-specific elective module 3 from all specialisations 6 C	Subject-specific elective module 4 from all specialisations 6 C	Subject-specific elective module 5 from all specialisations 6 C	Subject-specific elective module 1 from all specialisations		
4. **Σ 30 C**	**Master thesis + colloquium** 24 C + 6 C						
Σ 120 C							

f. Module package "Agricultural Sciences" within other suitable Master's degree programmes

Sem. **Σ C***	**Module package "Agricultural Sciences" (36 C)**	
	Module	Module
1. **Σ 12 C**	M.Agr.0049 Conservation economics 6 C	M.Agr.0008 Micro- and welfare economics 6 C
2. **Σ 12 C**	M.SIA.E13M Microeconomic Theory and Quantitative Methods of Agricultural Production 6 C	M.Agr.0053 Organisation of value chains 6 C
3. **Σ 12 C**	M.Agr.0060: Production, investment and risk in agriculture 6 C	M.Agr.0054 Personnel management in the agricultural and food industry 6 C
4. **Σ 0 C**		
Σ 36 C		

g. Course of study of the joint-degree programme "International Master of Science in Soils and Global Change" (IMSOGLO)

Sem. **Σ C***	**Specialised modules**					
	Module	Module	Module	Module	Module	Module
1. **Σ 30 C**						
2. **Σ 30 C**						
Uni Gö **3.** **Σ 30 C**	Mandatory M.Geg.17 Landscape ecology 5 C	Mandatory M.SIA.P22 Management of tropical plant production systems 6 C	Mandatory M.Agr.0180 Mineral nutrition of crops under different climate and environmental conditions 6 C	Mandatory M.Agr.0179 Soil biogeochemistry of agroecosystems 4 C	Elective M.Agr.0182 Blended E-course: Crop modelling for risk management 6 C	Elective M.Geg.08a (IMSOGLO) Field course on human-environment interactions 6 ECTS
Uni Gö **4.** **Σ 30 C**	**Master thesis** **30 C**					
Σ 120 C						

Annex 2 - Subject-specific provisions for the consecutive Master's degree programme "Crop Protection"

I. Aims of the degree programme; professional fields

(1) The Master's degree programme "Crop Protection" is intended to qualify students for international specialist and management tasks or prepare them for corresponding foreign-related research activities and thus make them competitive in international competition. The degree programme offers foreign students from industrialised, emerging, developing and transition countries an internationally competitive further education system that meets their qualification requirements. (2) [1]Plant protection is one of the most important technologies in plant production and deals with all questions concerning the cause, development and spread of damage to crops, the development and application of efficient, sustainable, preventive and curative control measures, as well as their effects on the environment, society and the economy. [2]There is a close relationship with other disciplines such as plant breeding, plant cultivation, plant nutrition, agricultural engineering, as well as microbiology, botany, biotechnology, zoology and agricultural economics.

(3) The general and subject-related objectives of the degree programme include the acquisition of the following scientific knowledge and skills:

- in-depth knowledge of plant protection, its methods and procedures;
- in-depth knowledge of biotic and abiotic harmful factors on crops in temperate and warm climate zones;
- the ability to collect, visualise and evaluate data from the field of plant protection;
- the ability to apply sophisticated scientific-analytical laboratory methods or technical procedures or qualitative and quantitative survey methods and to interpret their results;
- the ability to process and visualise complex analytical and other data using agricultural and bio-informatics methods;
- the ability to use and critically evaluate scientific literature, statistics and other documentation at a scientific level;
- the ability to present research results in written, oral and graphic form;
- the ability to carry out research or application-orientated projects largely independently and
- the ability to consider and assess the effects of plant protection from a social, scientific and ethical perspective.

(4) In addition, the programme enables the development of key competencies such as networked thinking, statistical data analysis and communication skills, which enable students to communicate conclusions and the underlying information and rationale in a clear and unambiguous manner to experts and laypersons based on the current state of research and application.

(5) The consecutive Master's degree programme "Crop Protection" is intended to prepare students for their subject-related or scientific professional field. Agricultural scientists with the degree "Master of Science" (abbreviated: "M.Sc.") in "Crop Protection" are predominantly employed as managers

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

II. Structure of the degree programme

(1) The degree programme begins in the winter semester.

(2) The degree programme is not suitable for part-time study.

(3) The degree programme comprises 120 credits (ECTS credits; abbreviated to C), which are distributed as follows:

a) to the specialised studies (compulsory modules) 30 C,

b) to the professionalisation area (compulsory elective modules) 60 C, including 6 C for key competencies and

c) 30 C for the Master thesis (including 6 C for a colloquium on the Master thesis).

(4) The programme is taught in English.

(5) It is possible to complete parts of the programme, including the field research for the Master thesis, abroad.

(6) A recommendation for the appropriate structure of the programme can be found in the exemplary study plans in sections V and VI.

(7) [1]Up to 18 C in the area of professionalisation can be covered by modules from other Master's degree programmes in Agricultural Sciences at the University of Göttingen. [2]In addition, upon application to the Examination Board, a module amounting to 6 C from a Master's degree programme of another faculty may be taken and credited towards the professionalisation area, provided that the course is meaningfully structured in terms of the objectives of this degree programme and the offering faculty agrees.

III. Compulsory Internship

[1]Students must complete a compulsory internship lasting six weeks. [2]A sufficient number of internship places will be arranged; a list of possible internship places will be publicised in an appropriate manner. [3]Internships that are not included on this list require the prior approval of the Chair of the Examination Board. [4]This person is also responsible for recognising the internship certificate in which the internship location confirms the activity and specifies the type of tasks carried out. [5]A work placement report must be prepared and presented in a seminar in the form of a presentation.

IV. Double/joint-degree option as part of the "PlantHealth" programme

(1) [1]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 University of Göttingen (hereinafter: Partner Universities; the French partners are jointly regarded as one partner university) jointly run the programme "PlantHealth - European Master Degree in PLANT HEALTH IN SUSTAINABLE CROPPING SYSTEMS" (abbreviated to "PlantHealth"). [2]The provisions of these examination and study regulations apply, unless otherwise specified below. 3For modules offered by one of the partner universities, only the provisions of this partner university apply.

(2) Students on the consecutive Master's degree programme in Crop Protection are entitled to participate in coursework and examinations on the Plant Health programme in accordance with the following provisions.

(3) [1]The application for consideration in the "Plant Health" programme must be submitted at the same time as the application for admission to the "Crop Protection" Master's degree programme. [2]The prerequisite for admission to modules in the first year of study is confirmation from a partner university that a place is available for the applicant in the second year of study. [3]Admission requirements for modules in the second year of study are proof of examination and study achievements from modules of the "Plant Health" programme totalling at least 48 C, which were

acquired at the Universitat Politècnica de València (Spain). [4]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) [1]Students on the "Plant Health" programme must successfully complete special examinations and coursework in accordance with the module directory, notwithstanding Section II (3); the courses and examinations offered are taught entirely in English. [2]Examinations and coursework completed at one of the partner universities as part of the "Plant Health" programme will be recognised without an equivalence assessment.

(5) [1]Repeat examinations for failed module examinations must be offered in such a way that they can be taken before the end of the respective academic year. [2]Repeat examinations for failed module examinations may also be taken at a partner university. [3]The examination conditions of the partner university offering the module shall apply; the assessment shall be carried out by examiners from the partner university offering the module.

(6) [1]Master thesis supervisors, who are also responsible for assessing the Master thesis, may be appointed as authorised examiners from various partner universities. [2]The partner university at which the first supervisor works is responsible for the appointment and the examination procedure; the respective procedural regulations of this partner university apply.

(7) [1]After passing the Master's examination, those partner universities at which the examinee has successfully completed coursework and examinations in the "Plant Health" programme amounting to at least 48 C will each award the customary national university degree; the University of Göttingen will award the university degree "Master of Science" (M.Sc.) [2]The Master's 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 that the certificate is only valid in conjunction with the certificate of the other degree-awarding partner university. [3]The two degrees awarded can each be used separately. [4]If both degrees are to be combined, they must be connected by a slash. [5]This also applies to the abbreviated form.

V. Exemplary study plan

Master's degree programme "Crop Protection"

Sem. **Σ C**	**Specialised 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 Topics 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.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 thesis 24 C				Colloquium for the Master thesis 6 C		
Σ 120 C	**84 C + (24 C+6 C)**						**6 C**

VI. Exemplary study plan (Double/Joint Degree Programme "Plant Health")

a. First year of study

Sem. **Σ C**	**Specialised 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. Zweites Studienjahr

Sem. **Σ C**	**Specialised studies (60 C)**						
	Modul	Modul	Modul	Modul	Modul	Modul	Modul
3. **Σ 30 C**	M.Cp.0007 „Pesticides II: Toxicology, Eco-toxicology, 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 thesis 24 C					Colloquium for the Master thesis 6 C	
Σ 60 C							

Annex 3 - Subject-specific provisions for the consecutive Master's degree programme "Integrated Plant and Animal Breeding"

I. Aims of the programme; professional fields

(1) [1]The Master's degree programme "Integrated Plant and Animal Breeding" is intended to qualify students for international specialist and management tasks or prepare them for corresponding research activities abroad and thus enable them to compete internationally. [2]Foreign students from industrialised, developing and transition countries are offered an internationally competitive continuing education system that meets their qualification requirements.

(2) The general and subject-related objectives of the degree programme include the acquisition of the following scientific knowledge and skills:

- in-depth knowledge of animal and plant breeding, its methods and procedures;
- the ability to apply sophisticated scientific-analytical laboratory methods or technical procedures as well as qualitative and quantitative survey methods and to interpret their results;
- the ability to process and visualise complex analytical and other data using agricultural and bio-informatics methods;
- the ability to use and evaluate scientific literature, statistics and other documentation at a scientific level;
- the ability to present research results in written, oral and graphic form;
- the ability to carry out research or application-orientated projects largely independently and
- the ability to consider and assess the effects of animal and plant breeding from a social, scientific and ethical perspective.

(3) In addition, the degree programme teaches key competencies such as networked thinking, presentation techniques, the use of digital and molecular tools and the solution of breeding problems, which enable students to communicate conclusions and the underlying information and motivations in a clear and unambiguous manner to specialists and laypersons based on the current state of research and application.

(4) Graduates with the degree "Master of Science" (abbreviated to "M.Sc.") in "Integrated Plant and Animal Breeding" can work as managers

- in animal and plant breeding companies,
- in companies in the agriculture and food industry,

- in specialised breeding and production consultancy,
- in the national and international agricultural industry
- in service industries, e.g. as experts and consultants,
- in the public sector, e.g. at chambers of agriculture, in ministries and in research,
- in international organisations,
- at universities and in research institutions.

II. Structure of the degree programme

(1) The degree programme begins in the winter semester.

(2) The degree programme is not suitable for part-time study.

(3) The degree programme is taught in English.

(4) The degree programme comprises 120 credits (ECTS credits; abbreviated to C), which are distributed as follows:

a) 78 C in the specialised study programme,

b) to the professionalisation area (key competencies) 12 C,

c) to the Master thesis (including 6 C for a colloquium on the Master thesis) 30 C.

(5) A recommendation for the appropriate structure of the degree programme can be found in the exemplary study plans in Section IV.

III. Double-degree option as part of the "European Master in Animal Biodiversity and Genomics" programme

(1) [1]The University of Natural Resources and Life Sciences, Vienna, Austria, (BOKU; lead), Wageningen University, Netherlands (WU), the Institut des sciences et industries du vivant et de l'environnement, AgroParisTech, France (APT), the Norwegian University of Life Sciences, Norway (NMBU), the Swedish University of Agricultural Sciences, Sweden (SLU) and the University of Göttingen (hereinafter referred to as the "Partner Universities") are jointly implementing the programme "EMABG - European Master in Animal Biodiversity and Genomics" (abbreviated as "EMABG"): partner universities) jointly run the programme "EMABG - European Master in Animal Biodiversity and Genomics" (abbreviated: "EMABG"). [2]The University of Göttingen primarily participates in the study track 'One Health: Health and Welfare in Humans and Animals'. [3]The provisions of these examination and study regulations apply, unless otherwise specified below. [4]For modules offered by one of the partner universities, only the regulations of this partner university apply.

(2) [1]Eligible candidates for participation in study and examination achievements of the joint-degree programme are selected and admitted by a consortium consisting of all partner universities.

(3) [1]Admission to the "EMABG" programme is accompanied by enrolment in the double-degree option of the Master's degree programme "Integrated Plant and Animal Breeding" at the University of Göttingen. [2]Admission requirement for modules at the partner university Norwegian University of Life Sciences (NMBU) is admission and enrolment at this university.

(4) [1]Students on the "EMABG" programme must successfully complete examinations and coursework in accordance with the module catalogue, in deviation from no. II section 3; the courses and examinations offered are taught entirely in English. [2]Examinations and coursework completed at one of the partner universities as part of the "EMABG" programme will be credited without an equivalence assessment.

(5) [1]Repeat examinations for failed module examinations must be offered in such a way that at least one repeat attempt can be taken before the end of the respective academic year. [2]Repeat examinations for failed module examinations may also be taken in the following academic year. [3]The examination conditions of the University offering the module shall apply; the assessment shall be carried out by examiners from the University offering the module.
(6) [1]The examination regulations of the Norwegian University of Life Sciences (NMBU) at which the student is writing the Master thesis apply exclusively to the Master thesis. [2]At least one supervisor should be a member or affiliate of the University of Göttingen. [3]They will be appointed by the Examination Office of the Faculty of Agricultural Sciences after notification by the partner university.
(7) [1]After passing the Master's examination, those partner universities at which the candidate has successfully completed at least 60 C of coursework and examinations in the "EMABG" programme will each award the university degree customary in the country; the University of Göttingen will award the university degree "Master of Science" (M.Sc.); a further prerequisite for the award of the Master's degree by the University of Göttingen is that the Master thesis was jointly supervised in accordance with section 6 sentence 2. [2]The Master's 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 that the certificate is only valid in conjunction with the certificate of the other partner university awarding the degree. [3]The two degrees awarded can each be used separately. [4]If both degrees are to be combined, they must be joined by a slash. [5]This also applies to the abbreviated form.

IV. Exemplary study plans

a. Master's programme "Integrated Plant and Animal Breeding (IPAB)"

Sem. Σ C*	**Specialised modules**					**Key competencies modules**
	Module	Module	Module	Module	Module	Module
1. Σ 30 C	Compulsory module Block A M.iPAB.0001 Quantitative genetics and population genetics 6 C	Compulsory module Block A M.iPAB.0002 Breeding schemes and programs in plant and animal breeding 6 C	Integrated Plant and Animal Breeding, Block B WPf-Module 1 6 C	Integrated Plant and Animal Breeding, Block B WPf-Module 2 6 C		Compulsory module Block C M.iPAB.0007 Biotechnology and molecular genetics in plant and animal breeding 6 C
2. Σ 30 C	Compulsory module Block A M.iPAB.0003 Statistical genetics, breeding informatics and experimental design 6 C	Integrated Plant and Animal Breeding, Block B WPf-Module 3 6 C	Integrated Plant and Animal Breeding, Block D WPf-Module 1 6 C	Integrated Plant and Animal Breeding, Block D WPf-Module 2 6 C		Compulsory module Block C M.iPAB.0013 Selection theory, design and optimisation of breeding programs 6 C
3. Σ 30 C	Integrated Plant and Animal Breeding, Block B WPf-Module 4 3 C	Integrated Plant and Animal Breeding, Block D WPf-Module 3 6 C	Integrated Plant and Animal Breeding, Block D WPf-Module 4 6 C	Integrated Plant and Animal Breeding, Block D WPf-Module 5 6 C	Compulsory module Block A M.iPAB.0004 Internship 9 C	
4. Σ 30 C	Master`s thesis 24 C				Colloquium for the Master thesis 6 C	
Σ 120 C	**78 C + (24 C+6 C)**					**12 C**

b. Double-/Joint-Degree Programme "European Master in Animal Biodiversity and Genomics"

Sem. **Σ C***	**Modules**					
	Module	Module	Module	Module	Module	Module
1. **Σ 30 C** **NMBU**	Module at respective partner university 10 C	Module at respective partner university 10 C	Module at respective partner university 10 C			
2. **Σ 33 C** **Uni Gö**	M.Cp.0016 Practical Statistics and Experimental Design in Agriculture 6 C	M.iPAB.0002 Breeding schemes and programs in plant and animal breeding 6 C	M.iPAB.0006 Breeding informatics 6 C	M.iPAB.0016 Applied effective R programming in animal breeding and genetics 3 C	M.iPAB.0020 Breeding Lab Internship 9 C	P.AG.0085: Computing in Science - Basics of Computational Biology 3 C
3. **Σ 27 C** **Uni Gö**	M.iPAB.0001 Quantitative genetics and population genetics 6 C	M.iPAB.0003 Statistical genetics, breeding informatics and experimental design 6 C	M.iPAB.0007 Biotechnology and molecular genetics in plant and animal breeding 6 C	M.iPAB.0024 Farm animal genetic resources 3 C	M.SIA.A02M Epidemiology of international and tropical animal infectious diseases 6 C	
4. **Σ 30 C** **NMBU**	Master thesis and defense ∑ 30 ECTS At the Norwegian University of Life Sciences (NMBU)					Graduation ceremony at summer school Event
Σ 120 C						

Annex 4 - Subject-specific provisions for the consecutive Master's degree programme "Equine Sciences"

I. Aims of the programme; professional fields

(1) The equine sciences deal with the scientific fundamentals, physiology, breeding, keeping, feeding, utilisation and hygiene of the horse as well as the economics and management of horse-keeping businesses and the effects on society, the economy and the environment.

(2) Equine sciences provide the scientific basis for horse breeding and keeping as well as for analysing the economic significance of the equine sector.

(3) The general and subject-related objectives of the degree programme include the acquisition of the following scientific knowledge and skills:

- knowledge of the fundamentals of natural sciences and economics;
- knowledge of the fundamentals of equine sciences as well as their methods and working methods;
- the ability to collect, visualise and analyse data from the equine sector;
- the ability to apply agronomic-analytical laboratory methods or technical procedures or qualitative and quantitative survey methods and to interpret their results;
- the ability to process and visualise analytical, structural and other data using methods of agricultural informatics;
- the ability to use and evaluate scientific literature, statistics and other documentation;
- the ability to present research results in written, oral and graphic form;
- the ability to carry out largely self-directed independent research or application-orientated projects and
- the ability to assess the effects of the activities of equine scientists in the light of social, scientific and ethical knowledge.

(4) In addition, the degree programme in Equine Science enables students to develop key competencies such as networked thinking, statistical data evaluation and presentation techniques, which enable them to communicate conclusions and the underlying information and rationale in a clear and unambiguous manner to specialists and laypersons based on the current state of research and application.

(5) The degree programme in Equine Science should prepare students for their professional field

of activity.

(6) Equine scientists are predominantly active

- in specialised business management or production technology consulting,
- in upstream and downstream sectors, such as the animal feed industry,
- in other service industries, e.g. as experts, certifiers,
- on horse farms,
- in the public sector, e.g. at chambers of agriculture,
- in national and international organisations,
- at universities and in research institutions.

II. Structure of the degree programme

(1) The degree programme begins in the winter semester.

(2) The degree programme is not suitable for part-time study.

(3) The degree programme comprises 120 credits (ECTS credits; abbreviated to C), which are distributed as follows:

a) to the specialised study programme 78 C,

b) to the professionalisation area (including key competencies) 12 C,

c) to the Master thesis (including 6 C for a colloquium on the Master thesis) 30 C.

(4) [1]A recommendation for the appropriate structure of the degree programme can be found in the exemplary study plan in section III.

III. Exemplary study plan

Master's degree programme "Equine Sciences"

Sem. **Σ C***	**Specialised modules**					**Professionalisation area**	
	Module	Module	Module	Module	Module	Module	Module
1. **Σ 30 C**	**Compulsory elective module 1** M.Horse.0001 Construction and process engineering in horse husbandry 6 C	**Compulsory elective module 2** M.Horse.0007 Infection and disease hygiene in horse husbandry 6 C	**Compulsory module 5** M.Horse.0012 Horse breeding and -genetics 6 C	**Compulsory module 1** M.Horse.0002 Business administration and business management for equine scientists 6 C	**Compulsory elective module 3** M.Horse.015 Special practical module - Trainer 6 C		
2. **Σ 30 C**	**Compulsory elective module 1** Block D 6 C	**Compulsory module 2** M.Horse.0004 Nutritional physiology and feeding of the horse 6 C	**Compulsory module 3** M.Horse.0006 Hygiene, diseases and keeping of the horse 6 C	**Compulsory module 4** M.Horse.0008 Performance and training physiology of the horse 6 C			**Compulsory module** M.Horse.0021 Equine science seminar 6 C
3. **Σ 30 C**	**Compulsory elective module 2** Block D 6 C	**Compulsory elective module 3** Block D 6 C	**Compulsory elective module 4** Block D 6 C	**Compulsory elective module 5** Block D 6C			**Compulsory elective module** M.Agr.0036 Methodical work: Experimental design and evaluation 6C
4. **Σ 30 C**	**Master thesis** 24 C				**Colloquium for the Master thesis** 6 C		
Σ 120 C	**78 C + (24+6 C)**					**12 C**	