Universität für Bodenkultur Wien

Curriculum

University of Natural Resources and Life Sciences, Vienna

for the Master's Programme in

International Master in

Horticultural Sciences



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Programme classification no. 066 454











Effective date October 1st, 2021

CONTENTS

§ 1	QUALIFICATION PROFILE	3
§ 2	ADMISSION REQUIREMENTS	4
§ 3	PROGRAMME STRUCTURE	5
§ 4	COMPULSORY COURSES	7
§ 5	ELECTIVE COURSES	8
§ 6	FREE ELECTIVES	10
§ 7	Master's thesis	10
§ 8	COMPLETION OF THE MASTER'S PROGRAMME	10
§ 9	ACADEMIC DEGREE	11
§ 10	EXAMINATION REGULATIONS	10
§ 11	EFFECTIVE DATE	11
Anne	EX ATYPES OF COURSES	12

Preamble

The international master's programme "International Master in Horticultural Sciences" (IMaHS) is conducted and offered by five European universities in collaboration – each providing high quality specialization in an individual specific field:

- University for Natural Resources and Life Sciences, Vienna (BOKU; Universität für Bodenkultur Wien, Austria),
- Alma Mater Studiorum University of Bologna (UNIBO; Università di Bologna, Italy) / Free University of Bozen-Bolzano (FUB; Bolzano, Italy).
- o Humboldt University of Berlin (HUB; Humboldt-Universität zu Berlin, Germany),
- University of Agriculture and Life Sciences (MATE Magyar Agrár-és Élettudományi Egyetem) (former "Szent István University, SZIU"), Hungary.

Additionally, the Technical University of Munich (TUM, Technische Universität München-Weihenstephan, Germany) serves as supportive partner.

§ 1 QUALIFICATION PROFILE

The master's programme "International Master in Horticultural Sciences" (IMaHS) is a joint degree programme which serves to deepen and extend students' pre-vocational academic education, building on the basis provided by a bachelor degree programme (§ 51 [2] item 5 of the Universities Act UG 2002, Federal Law Gazette BGBI I no. 81/2009). The programme fulfils the requirements of Directive 2005/36/EC on the recognition of professional qualifications, article 11, letter e.

1a) Knowledge and personal and professional skills

Graduates of the programme will have gained technological, socio-economic and life-sciences expertise and competence focused on cultivation, control, management of highly value creating and minor horticultural crops. This expertise will enable them to develop inter-disciplinary solutions in the contexts of research, horticultural entrepreneurship and public domain. It will enable them to work for an increase of life standard and quality of life both in developing and developed countries. As well, the innovation and requirements for permanent improvement of processes, products and technologies are addressed.

Graduates will have gained the ability to understand, apply and evaluate actual techniques in a) biochemistry and molecular physiology of plants in horticultural biotechnology, b) environmental and ecological aspects of horticulture, c) design of experiments for studying environmental, technological and human impacts on the quantity and quality of horticultural crops, d) methodology of analyzing of horticultural plant-propagation, production systems and postharvest-management.

They will have developed the highly skilled ability to understand and reproduce scientific research in horticultural crop production, management and applications as well as knowledge-transfer in the fields of horticulture - from designing a research plan, data analysis up to presentation of results and discussion to develop competence for future professional and scientific activities.

1b) Professional qualifications

The objective is to train and educate students on a high level in research-based knowledge and academic skills. All levels from plant-stands to genes are covered. Fields of expertise from biotechnology to sustainability and organic strategies are represented. The focus for

students will be on theoretical studying to gain and improve academic qualifications and skills.

Graduates of the programme are qualified to start and develop future career profiles in: research and development (R&D); in the horticultural and related business and industries; horticultural nursery management; training, guidance and teaching; public administration and agricultural chambers as well as green technologies.

§ 2 ADMISSION REQUIREMENTS

Graduates of the following bachelor's programmes offered by BOKU University of Natural Resources and Life Sciences, Vienna are eligible for admission with no further requirements on:

- 1. BSc Agricultural Sciences
- 2. BSc Environment and Bio-Resources Management
- 3. BSc Landscape Architecture and Landscape Planning

Graduates of agricultural, horticultural and biological bachelor's programmes offered by the partner universities within the consortium are also eligible for admission with no further requirements.

For graduates of other bachelor's programmes, mastery of the following learning outcomes is required for admission:

- Horticultural and agricultural plant-production (minimum 12 ECTS credits)
- o Plant-health-management (plant protection) (minimum 6 ECTS credits)
- Horticultural/agricultural management, business and social sciences (minimum 6 ECTS credits)
- Life sciences (minimum 12 ECTS credits)
- Science of human nutrition or landscape or garden design (minimum 3 ECTS credits)

Preferably graduates from programmes such as "Horticulture", "Agriculture / Crop production", "Landscaping" "Biology / Botany" or "Human nutrition" are regarded qualified for the master's programme "International Master in Horticultural Sciences".

Admission criteria also comprise English Language Skills at the Level B2 of the Common European Framework of References for Languages (CEFR). Equivalent test and their required minimum scores are as following:

- Cambridge Certificate of Advanced English
- IELTS Academic results 6.0 or better
- TOEFL (paper based 577 or computer-based 233 or 90-91 internet based) TOEFL Home Edition will not be accepted
- TOEIC (at least 785 points)
- Completion of a study programme that was entirely taught in English from countries with English as the official language
- Successfully passed school-leaving examination in English from a recognized domestic
 or foreign educational institution, provided that the country of issue's educational regulations offers level B2. If the school leaving certificate does not confirm level B2 of the European frame of reference, a confirmation from the appropriate ministry must be submitted.

Admission is granted to prospective students who meet the admission criteria and admission at one of the Parties is automatically accepted at all other parties.

§ 3 PROGRAMME STRUCTURE

Registration for the first semester of the master's programme "International Master in Horticultural Sciences" can be done at any of the partner universities:

- University of Natural Resources and Life Sciences Vienna" (BOKU)
- University of Bologna (UNIBO) / Free University of Bozen-Bolzano (FUB)
- Humboldt University Berlin (HUB)

University of Agriculture and Life Sciences (MATE Magyar Agrár-és Élettudományi Egyetem) (former "Szent István University, SZIU"), Hungary

Additionally, the Technical University Munich (TUM) accepts as supportive partner of the IMaHS network Erasmus+ exchange students of all partners.

MOBILITY TRACK Master's Thesis Elective Cours-Basic Courses Elective Courses/ Free electives es/ Free electives **UNIBO-FUB** Home University / Home University / RESEARCH Mobility to Partner Mobility to Partner **BOKU ORIENTED** University or sup-University or sup-**MASTER THESIS** portive partner portive partner MATE (former SZIU) HUB 4th SEMESTER **30 ECTS** 3rd SEMESTER 2nd SEMESTER 30 ECTS 30 ECTS 1st SEMESTER 30 ECTS

Each student has to study at least at 2 different universities, each semester comprising at least 30 ECTS credits.,

3a) Duration, total ECTS credits, and structure

The programme consists of courses and other requirements worth a total of 120 ECTS credits. This is equivalent to the duration of four semesters (a total of 3,000 60-minute credit hours). The programme is conducted entirely in English language.

Based upon the specialized topic chosen by the student, the amount of compulsory (for partners: basic) and elective (for partners: pool) courses can differ between the University partners:

ners. The total amount of compulsory, elective and free elective courses at BOKU are as following:

Compulsory courses: 30 ECTS credits including Master's thesis seminar of at

least 2 ECTS

Master's thesis: 30 ECTS credits (not including the Master's thesis seminar)

Elective courses: 42 ECTS credits Free electives: 18 ECTS credits

The master's programme "International Master in Horticultural Sciences" consists of topics with modules (so-called "topic areas"), each comprising from 5 to 12 ECTS credits which are offered in the form of several courses with different characters (different at the partner universities) – in lectures, lecture and tutorial, seminar or project (in total 90 ECTS credits including 18 ECTS credits for free elective courses). The modules are offered at the different universities; their comparability is assured based on the learning outcomes.

The master's thesis is 30 ECTS credits and is supervised by a competent professional person at the chosen university within the IMaHS network. A co-supervision by a second competent professional person at a partner university or supportive partner is compulsory.

The ECTS acquired for courses offered at the partner university will count towards the 120 ECTS required to complete the study programme. They can either be acknowledged as elective courses or free electives. The elective courses taken at the partner university have to be in one of the five topic areas agreed between the partner universities (see §3c). During the mobility at least 30 ECTS have to be completed at the partner institution; the compulsory cosupervision of the master's thesis worth 10 ECTS credits can be counted towards the required 30 ECTS credits.

The first semester is equally offered by all of the partners. It comprises 5 compulsory areas, which aim to provide the essential knowledge needed by all students to successfully face the topics offered in the following semesters.

3b) Three-pillar principle

The three-pillar principle is the central identifying characteristics of both the bachelor's and master's programmes offered at the University of Natural Resources and Life Sciences, Vienna. In the master's programmes, the sum of the compulsory and elective courses must be made up of at least:

15% technology and engineering,

15% natural sciences,

15% economic and social sciences, law.

The master's thesis and free electives are excluded from the three-pillar rule.

3c) Joint programme

Students in the master's programme "International Master in Horticultural Sciences" have free choice of mobility among the partners, with a minimum of one mobility-activity during the master's programme.

Then specialization courses in the five areas of:

- 1. Plant Physiology and Chemistry,
- 2. Breeding and Biotechnology,
- 3. Plant Pathology and Protection,
- 4. Production Process Design and Quality Management,
- 5. Horticultural Economy/Horticultural Systems Management and Resources

have to be completed. The master's thesis can be conducted at any of the partner universities. In case of the choice of a host-university it counts as fulfilment of the international mobility-activity only in agreement with the university where the master's thesis will be conducted.

The structure of the courses will be divided into basic and elective courses, which will be divided according to the five topic areas.

The fourth semester is designed to conduct the master's thesis under academic supervision of competent professional persons. The master's thesis can be conducted at any of the partner institutions within the partner universities. It is to choose a co-supervisor from another partner institution.

The topic of the master's thesis has to be selected from one of the fields of horticulture present, respectively addressed, in the curriculum. Ideally, the thesis creates significant scientific new value or knowledge.

§ 4 COMPULSORY COURSES

Compulsory courses (for partners: basic courses) worth a total of 30 ECTS credits are required to complete the master's programme.

The following compulsory courses are required to complete the master's programme:

Compulsory Courses (Basic Courses) - BOKU (home university)

1. Physiology of horticultural crops (6 ECTS)	Course type	ECTS credits
Course title		
Biology and physiology of the grapevine	vs	3
Basics of plant, stress and storage physiology in horticulture	vs	3
2. Basics of biotechnology in horticulture (6 ECTS)	Course type	ECTS credits
Course title		
Plant biotechnology	vo	3
Gene technology for plant pathologists	vo	3
3. Phytopathology in horticulture (6 ECTS)	Course type	ECTS credits
Course title		
Ecological plant protection	VU	3
Global change and pest management	vo	3
4. Horticultural crop quality management (7 ECTS)	Course type	ECTS credits
Course title		
Horticultural products as a source of functional food: physiological and nutritional aspects	VS	3
Aspects of product quality in plant production	VX	4
5. Scientific methods in horticultural research (min. 5 ECTS)	Course type	ECTS credits
Course title		
Presenting at a scientific conference	SE	3
Master's thesis seminar	SE	2

Tech./Eng.= technology and engineering; Nat.sci. = natural sciences; EcSoLa = economic and social sciences, law

§ 5 ELECTIVE COURSES

42 ECTS credits of pool courses in the five topic areas are required to complete the master's programme. *Elective Courses (Pool Courses) at BOKU*

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1. Plant Physiology and Chemistry (min. 9 ECTS)	Course type	ECTS credits
Course title		
Physiology of crop nutrition	vo	4
Physiology of crop nutrition – laboratory exercises	UE	3
Biology and physiology of the grapevine-exercises	UE	3
Plant based aspects of abiotic stress responses in grapevine	VS	3
Methods in horticultural physiology	US	3
Plant and environment	vo	3
Water relations of plants	vo	3
Ecology and population biology of plants in agro-ecosystems	VX	5
Plant sensing, response and adaptation to the environment	SE	2
2. Breeding and Biotechnology (min. 6 ECTS)	Course type	ECTS credits
Course title		
Traditional and molecular aspects of grapevine breeding and selection	VS	3
Genetic control of secondary metabolites in perennial crop plants	VS	3
Plant breeding – principles and methods	vo	3
Plant breeding – principles and methods – practical exercises	UX	3
Genetically modified organisms in the environment	SE	2
Safety aspects of plant biotechnology	vo	3
Biotechnology law	VU	3
i de la companya de		
3. Plant Pathology and Protection (min. 6 ECTS)	Course type	ECTS credits
3. Plant Pathology and Protection (min. 6 ECTS) Course title	Course type	
3. Plant Pathology and Protection (min. 6 ECTS)	Course type UE	ECTS credits
3. Plant Pathology and Protection (min. 6 ECTS) Course title		
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages	UE	3
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology	UE VU	3
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology	UE VU VU	3 3 1,5
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection	UE VU VU VO	3 3 1,5 3
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection	UE VU VU VO VO	3 3 1,5 3
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title	UE VU VO VO VO VU Course type	3 3 1,5 3 3 3 ECTS credits
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing	UE VU VO VO VU Course type	3 3 1,5 3 3 3
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing Vegetable growing – field trip	UE VU VO VO VU Course type VS EX	3 3 1,5 3 3 3 ECTS credits
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing Vegetable growing – field trip Medicinal and aromatic plants	UE VU VO VO VU Course type	3 3 1,5 3 3 3 ECTS credits 3 0,5
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing Vegetable growing – field trip	UE VU VO VO VU Course type VS EX	3 3 1,5 3 3 3 ECTS credits 3 0,5 3 3
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing Vegetable growing – field trip Medicinal and aromatic plants	UE VU VO VO VU Course type VS EX VO	3 3 1,5 3 3 3 ECTS credits 3 0,5
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil protection 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing Vegetable growing – field trip Medicinal and aromatic plants Production of medicinal and aromatic plants	UE VU VO VO VU Course type VS EX VO US	3 3 1,5 3 3 3 ECTS credits 3 0,5 3 3
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing Vegetable growing – field trip Medicinal and aromatic plants Production of medicinal and aromatic plants Irrigation design	UE VU VO VO VU Course type VS EX VO US VU	3 3 1,5 3 3 3 ECTS credits 3 0,5 3 3 3
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing Vegetable growing – field trip Medicinal and aromatic plants Production of medicinal and aromatic plants Irrigation design Floriculture	UE VU VO VO VU Course type VS EX VO US VU VS	3 3 1,5 3 3 3 ECTS credits 3 0,5 3 3 3 3 3
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing Vegetable growing – field trip Medicinal and aromatic plants Production of medicinal and aromatic plants Irrigation design Floriculture Project in horticulture	UE VU VO VO VO VU Course type VS EX VO US VU VS PJ	3 3 1,5 3 3 3 ECTS credits 3 0,5 3 3 3 4
3. Plant Pathology and Protection (min. 6 ECTS) Course title Laboratory diagnosis of plant damages Plant virology and bacteriology Plant nematology Microbial plant protection Soil protection Soil pollution and remediation 4. Production Process Design and Quality Management (min. 12 ECTS) Course title Special vegetable growing Vegetable growing – field trip Medicinal and aromatic plants Production of medicinal and aromatic plants Irrigation design Floriculture Project in horticulture Organic fruit production and organic viticulture	UE VU VU VO VO VU Course type VS EX VO US VU VS PJ VX	3 3 1,5 3 3 3 ECTS credits 3 0,5 3 3 4 3

5. Horticultural Economy/Horticultural Systems – Management and Resources (min. 6 ECTS)	Course type	ECTS credits
Course title		
System analysis and scenario technique – methods and practices	SE	5
E-business in the agriculture and food value chain	SE	3
European regulatory framework for organic production	vo	3
Global networking	SE	6
Soil fertility and soil ecology in organic agriculture	VU	3
Planting design and horticultural ecosystem management	PJ	3
Getting to the point: Key messages and abstract writing in science	SE	2
Viticulture and pomology journal club	vs	3
Ethics in organic agriculture	SE	3
Sustainable land use in developing countries	vo	3

Tech./Eng.= technology and engineering; Nat.sci. = natural sciences; EcSoLa = economic and social sciences, law

§ 6 FREE ELECTIVES

Free electives worth a total of 18 ECTS credits are required to complete the master's programme. Free electives may be selected from all courses offered by all recognized universities in Austria and abroad. Free electives are intended to impart knowledge and skills in the student's own academic subject as well as in fields of general interest.

§ 7 MASTER'S THESIS

A master's thesis is a paper on a scientific topic, to be written as part of a master's degree programme (for exceptions please see the By Laws (Satzung) of the University of Natural Resources and Life Sciences, Vienna, § 86[9]). The thesis is worth a total of 30 ECTS credits. With their master's thesis, students demonstrate their ability to independently address a scientific topic, both thematically and methodologically (§ 51 [8] UG 2002 BGBI. I no. 81/2009). The topic of a master's thesis shall be chosen in such a way that it is reasonable to expect a student to be able to complete it within six months. Multiple students may jointly address a topic, provided that the performance of individual students can be assessed (§ 81 [2] UG 2002 BGBI. I no. 81/2009).

The master's thesis shall be written in English. Languages other than English are permissible only if approved and confirmed by the thesis supervisors. The thesis defensio must be held in English regardless of the language of the thesis and the participation of the co-supervisor in person or via videoconference is strongly recommended

The master's thesis is 30 ECTS credits and is supervised by a competent professional person at the chosen university within the IMaHS network. A co-supervision by a second competent professional person at a cooperating university is compulsory.

§ 8 COMPLETION OF THE MASTER'S PROGRAMME

The master's programme in "International Master in Horticultural Sciences" has been completed when the student has passed all required courses and received a positive grade on the master's thesis and defensio.

§ 9 ACADEMIC DEGREE

Graduates of the master's programme in "International Master in Horticultural Sciences" are awarded the academic degree "Master of Science", abbreviated as "MSc" or "M.Sc." by the first supervisor's home university. The academic degree MSc (M.Sc.) shall follow the bearer's name (§ 88 [2] UG 2002 BGBI. I no. 81/2009).

§ 10 EXAMINATION REGULATIONS

- (1) Examination regulations of the university where the exam was taken are applicable.
- (2) The master's programme "International Master in Horticultural Sciences" has been completed successfully when the following requirements (corresponds to components in [8] below) have been met:
 - positive completion of the compulsory courses worth a total of 30 ECTS credits (§ 4);
 - positive completion of the elective courses worth a total of 42 ECTS credits (§ 5);
 - positive completion of the free elective courses worth a total of 18 ECTS credits (§ 6);
 - a positive grade on the master's thesis and the defensio.
- (3) Student evaluation takes the form of course and module examinations. Course examinations can be either written or oral, as determined by the course instructor, taking the ECTS credit value of the course into account. Any prerequisites for admission to examinations shall be listed in § 4 under the respective course/module.
- (4) Student evaluation in modules: Module evaluation is based on the grades given the students in the individual courses that make up the module. The total evaluation for the module is calculated as the average of the grades of all module courses, weighted by ECTS credits. Average values of .5 or lower are rounded to the better (numerically lower) grade; values of over .5 are rounded to the worse (numerically higher) grade. If deemed necessary, the Dean of Students may require a module examination at his/her discretion.
- (5) The choice of examination method shall be based on the type of course: Lectures shall conclude with a written or oral examination, if continuous assessment of student performance is not applied. Seminars (SE) and project-based courses (PJ) can be evaluated based on independently written papers, length and contents of which are determined by the course instructor. For all other course types, the examination type is at the instructor's discretion.
- (6) After the successful completion of all the courses and examinations required in the master's programme, the completed master's thesis, after it has been given a positive evaluation by the thesis supervisor and co-supervisor, shall be publically presented by the student and defended in the form of an academic discussion (defensio). The committee shall consist of a committee chair and two additional university teachers with a venia docendi or equivalent qualification. The student's total performance (thesis and defensio) will be assigned a comprehensive grade. Both thesis and defensio must receive a passing grade for the student to complete the programme. The written evaluations stating the rationale for the thesis grade and the defensio grade are included in calculating the comprehensive grade and are documented separately.

The comprehensive grade is calculated as follows:

- Master's thesis: 70%
- Defensio (incl. presentation): 30%
- (7) A comprehensive evaluation of the student's performance on the entire programme shall be assigned. A comprehensive evaluation of "passed" means that each individual component

of the programme was completed successfully. If individual components of the programme have not been successfully completed, the comprehensive evaluation is "failed". A comprehensive evaluation of "passed with honours" is granted if the student has received no grade worse than a 2 (good) on all individual components, and if at least 50% of the individual components were graded with 1 (excellent).

§ 11 EFFECTIVE DATE

This curriculum shall take effect on October 1st, 2021.

ANNEX A TYPES OF COURSES

The following types of courses are available:

Lecture (VO)

Lectures are courses in which certain areas of a subject and the methods used in this area are imparted through didactic presentation.

Exercise course (UE)

Exercise courses are courses in which students are instructed in specific practical skills, based on theoretical knowledge.

Practical course (PR)

Practical courses are classes in which students deal with specific topics independently, based on previously acquired theoretical and practical knowledge.

Compulsory internship seminar (PP)

The compulsory internship seminar is a class in which students deal independently with topics related to their internship placements, based on previously acquired theoretical and practical knowledge.

Seminar (SE)

Seminars are courses in which students are required to work independently on the respective subject, deepen their knowledge of the topic and discuss relevant issues.

Field trips (EX)

Field trips are courses in which students have the opportunity to experience relevant fields of study in real-life practical application, to deepen their knowledge of the respective subject. Field trips can be taken to destinations both in Austria and abroad.

Master's thesis seminar (MA)

Master thesis seminars are seminars intended to provide students with academic support during the thesis writing process.

Mixed-type courses:

Mixed-type courses combine the characteristics of the courses named above (with the exception of project-type courses). Integration of different course-type elements improved the didactic value of these courses.

Project course (PJ)

Project courses are characterized by problem-based learning. Under instruction, students work - preferably in small groups - on case studies, applying appropriate scientific methods.

Lecture and seminar (VS)

Lecture and exercise (VU)

Lecture and field trip (VX)

Seminar and field trip (SX)

Exercise and seminar (US)

Exercise and field trip (UX)