

# Subject-specific Study Regulation

## for the International Master's Degree Programme in "Horticultural Sciences"

In accordance with § 17 para. 1 (3) of the constitution of Humboldt-Universität zu Berlin as amended on 24 October 2013 (University Gazette of Humboldt-Universität zu Berlin no. 47/2013), the Faculty Board of the Faculty of Life Sciences issued\* the following study regulations on 13 November 2013:

§ 1 Area of application

§ 2 Start of the programme

§ 3 Objectives of the programme

§ 4 Modules of the programme

§ 5 Commencement

**Appendix 1:** Module Descriptions

**Appendix 2:** Ideal Study Plan With Semester Abroad

### § 1 Area of application

(1) The study regulations presented hereinafter shall contain the subject-specific regulations of the international master's degree programme in "Horticultural Sciences". They shall apply in connection with the subject-specific examination regulations of the international master's programme in "Horticultural Sciences" and the "General Admission, Study and Examination Regulations of Humboldt-Universität zu Berlin (ZSP-HU)" in their respective current version.

(2) The study programme is offered at Humboldt-Universität zu Berlin and shall not only include courses offered at Humboldt-Universität but also courses offered by the partners involved in the consortium of this programme, namely Technical University of Munich, University of Natural Resources and Life Sciences Vienna (Austria), Università di Bologna (Italy), Agrocampus Quest (France), Montpellier SupAgro (France), Free University of Bozen-Bolzano (Italy) and Budapesti Corvinus Egyetem (Hungary). Students studying at Humboldt-Universität within the scope of the present study regulations shall be enrolled and complete their studies there. The present study regulations shall regulate the courses offered at Humboldt-Universität and ensure the compatibility of the training at the individual partner institutions as well as the assurance of the general higher-level study objective of this study programme.

### § 2 Start of the programme

The programme starts at the beginning of the winter semester.

### § 3 Objectives of the programme

(1) The objective of the master's degree programme as a second professional qualifying degree in the field of horticultural sciences shall be to prepare students for a professional career or for pursuing a doctoral degree.

(2) After successfully completing their studies, the students shall be qualified to make a targeted contribution to solving problems in the fields of horticultural sciences. They shall be in a position to analyse scientific and social interrelationships and to develop and implement concrete measures aimed at solving problems in horticulture.

(3) The programme shall provide students with professional, theoretical, methodological and social competences that are indispensable for scientific work. To obtain the degree, students will also have demonstrated creativity, readiness to think innovatively and a sense of responsibility.

(4) Students will have obtained key interdisciplinary qualifications for a broad and dynamically changing professional field. Students will be able to critically categorise, assess and convey their acquired knowledge. They will be taught to engage in lifelong learning and teamwork.

(5) The modules of this programme are offered in English. In the interdisciplinary elective area, modules offered in German can be chosen. Students will have taken the opportunity to acquire and use foreign language skills.

(6) The international master's degree programme in "Horticultural Sciences" shall offer opportunities to participate in research and development projects.

#### **§4 Modules of the programme**

The master's degree programme comprises modules with a total workload of 120 credit points (ECTS credit point – CP), of which one to two semesters' worth of credits have to be obtained at one of the partner universities according to § 1 (2). Compulsory and compulsory elective modules are grouped as follows:

- 1) Compulsory area:
  - A General
  - B Ecosystems and Plant Ecophysiology
  - C Advanced Plant Pathology
  - D Managing Crop Growth, Yield and Quality
  - E Horticultural Economics
  
- 2) From Genes to Plant (compulsory elective area)
  - F Crop Biotechnology
  - G Research and Evaluation Methods in Horticulture
  - H System Analysis as Research Method
  - I Plant Physiology and Analytical Chemistry
  - J Control and Evaluation Methods
  
- 3) Control and Optimisation of Horticultural Systems (compulsory elective area)
  - K Horticultural Systems – Management and Research
  - L Production Process – Design and Quality Management
  - M Horticultural Engineering and Economy
  - N Biotechnology and Plant Growth Regulation

#### **(a) Compulsory area (60 CP)**

The compulsory area at Humboldt-Universität comprises of five modules with a total workload of 30 CP and the master's thesis worth 30 CP.

- CM 1 (A): Seminar Horticultural Sciences (6 CP)
- CM 2 (B): Ecophysiological Basics of Urban Horticulture (6 CP)
- CM 3 (C): Advanced Plant Pathology (6 CP)
- CM 4 (D): Crop Quality Assessment (6 CP)
- CM 5 (E): Farm Management in the Agricultural and Horticultural Sector (6 CP)
- Master's Thesis (30 CP, of which 15 CP from a partner university)

#### **(b) Compulsory elective area (48 CP)**

Humboldt-Universität offers the following modules. For modules offered at partner universities see the module pool of the study programme.

- FM 1 (F): Biology of Generative Propagation in Horticulture (6 CP)
- FM 2 (G): Horticultural Outdoor Plant Systems (Decorative Plants II) (6 CP)
- FM 3 (G): Urban Horticulture – An Introduction (6 CP)
- FM 4 (G): International Floriculture and Nursery (6 CP)
- FM 5 (H): Methods of Monitoring and Evaluation of Technical Processes in Horticulture (6 CP)
- FM 6 (H): Plant Nutrition in Environmentally-friendly Horticultural Systems (6 CP)
- FM 7 (I): Physiology of Woody Plants and Applied Dendrology (6 CP)
- FM 8 (I): Effects of Plant Nutrition and Other Environmental Factors on Composition and Quality of Vegetable and Ornamental Plants (6 CP)
- FM 9 (J): Food Chain Management (6 CP)
- FM 10 (J): Current Topics in Phytomedicine (6 CP)
- FM 11 (K): Plant Disease and Control Management (6 CP)
- FM 12 (L): Post-harvest Quality and stored Product Protection (6 CP)
- FM 13 (L): Development of New Floricultural Products (6 CP)
- FM 14 (L): Hydroponical Systems in Horticulture (6 CP)
- FM 15 (M): Environmental Management and Information Systems (6 CP)

The German version shall apply.

- FM 16 (M): Information and Communication Technology in Horticultural Science (6 CP)
- FM 17 (N): Plant Biotechnology (6 CP)
- FM 18 (N): Symbioses in Plant Nutrition (6 CP)
- FM 19 (N): Methods in Molecular Plant Breeding (6 CP)

(c) Interdisciplinary elective area (12 CP)

Interdisciplinary elective modules with a maximum workload of 12 CP are to be completed in the form of master's modules from other study programmes of the faculty, designated master's modules from other study programmes and central institutions of Humboldt-Universität or in the form of the compulsory elective modules of this study programme.

**§ 5 Commencement**

(1) The present study regulations shall come into force on the day after their publication in the "University Gazette of Humboldt-Universität zu Berlin".

(2) The present study regulations shall apply to all students who begin their studies after the regulations have come into force as well as to students who have changed their university, programme or course of studies.

(3) The regulations of 30 March 2007 (University Gazette of Humboldt-Universität zu Berlin no. 10/2007) shall apply to those students who began their studies prior to the commencement of the present regulations. Alternatively, such students can also choose to study under the present regulations, including the corresponding examination regulations. If they choose to do so, their choice shall be declared in writing at the Examination Office and shall be irreversible. The study regulations dated 30 March 30 2007 will expire by the end of the winter semester 2016/17. After expiration, all students, including those designated in sentence 1, will be bound to the present study regulation with already completed coursework being assessed according to § 110 ZSP-HU.