

### University of Bologna



Latest technical facilities are offered in the field of plant science by the University of Bologna, one of the oldest universities of the world. The new „College of Agriculture“ is directly involved in the experimental area. One of the main topics of the institution is in the field of fruit-growing and viticulture with a special focus on ecophysiology and breeding. Therefore traditional knowledge is combined with the latest insight in molecular biology.

### Corvinus University Budapest



The Faculty of Horticultural Science became one of the prominent places of European horticultural teaching during the last 150 years. The aim of the education is to provide excellent skills in each branch of sustainable horticulture, based on up-to-date knowledge in natural sciences. The graduating students are specialists, familiar with the foreign and Hungarian horticulture. A special role is given to ecological approaches, quality aspects, and integrated technologies.

### Technical University Munich



Tradition and innovation are connected and used for enhancements in the two leading disciplines of the new century - „Life Science“ and „Food Science“ - at the campus of the Technical University Munich-Weihenstephan. The basis for the crosslinking between plant and nutrition science is an interdisciplinary and versatile education.

### University of Natural Resources and Applied Life Sciences Vienna



Main research focus of the University of Natural Resources and Applied Life Sciences Vienna are renewable resources. Thereby importance is attached to various fields of activity to contribute to the protection of these fundamentals of life for future generations. Principle basics for the modern education are focal points in research of practical relevance and ecological interest, internationality and multidisciplinary.



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# International Master in Horticultural Sciences





# Welcome to Humboldt-Universität



# Study plan

# Modules



About 1,300 students are currently enrolled at the Faculty of Agriculture and Horticulture. It is situated on two locations: the **Campus Mitte** at the city centre and the green **Campus Dahlem**. The faculty is a member of the Research Platform Berlin-Brandenburg and fosters manifold national and international cooperations. It is also involved in the development of the Research Network Halle-Rostock-Berlin (Agnosnet.de).

**Berlin**, the capital of Germany, offers an interesting mixture of international metropolitan life and cultural diversity. It is the home of several operas, theatres, and museums and offers a very active nightlife. The city is the greenest metropolis in Europe and is surrounded by the beautiful landscapes of Brandenburg.

The english-speaking Master „International Master in Horticultural Sciences“ is offered since the summer semester 2007. It is jointly conducted by the **Humboldt-Universitaet zu Berlin**, the **Technische Universitaet Muenchen-Weihenstephan**, the **University of Natural Resources and Applied Life Sciences Wien**, the **University of Bologna**, and the **Corvinus Universitaet Budapest**.

**Entry onto the** Master programme requires a university degree equivalent to the German Bachelor or Diplom in agricultural sciences or another relevant field, e.g. economics, social sciences or natural sciences.

Modules at Humboldt-Universitaet usually have **six ECTS**, at the partner universites the number of points awarded vary. Lectures are held in either **English, German or Italian**, please read the module descriptions carefully or contact the person responsible.

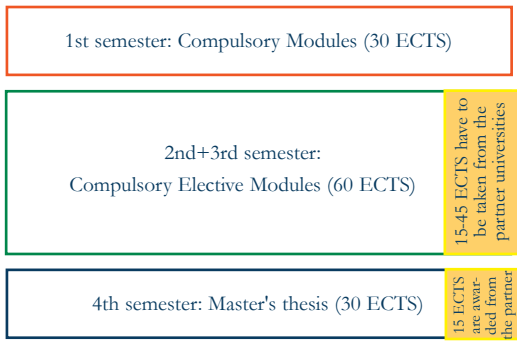


**A total of 120 study points (ECTS)** has to be aquired, 30 to 60 have to be taken at a partner university. Students who wish not to spend a whole semester at another university can aquire their ECTS in **Summer Schools** either during the semester or in the holidays. Summer Schools will take place in a partner city and as guest lectures of a partner professor at your home university. The Master thesis is attended by both home and partner university and earns 15 imported points already.

The **first semester** is uniformly designed at all participating universities with the aim of gaining adequate technical knowledge on a high level for all students.

Afterwards, **two international orientated semesters** follow in which students can choose individually from a broad range of courses from the participating universities. All courses are followed by examinations after each semester.

During the **forth semester** students work on their thesis. The subject can be chosen by themselves, but the students can gather inspiration from a concrete scientific problem complex from actual research projects. The thesis will include experimental and analytical work and can be a major part of the students professional profile applying for their first job.



### Compulsory modules (30 ECTS required)

- Plant molecular physiology
- Crop quality assessment
- Plant biotechnology
- Ecophysiological basics of urban horticulture
- Seminar horticultural science

### Compulsory Elective Modules at HU (60 ECTS)

#### Crop management

- Cultivation of vegetables in tropics and subtropics
- Development of new floricultural products
- Hydroponical systems in horticulture
- Food chain management
- Horticultural outdoor plant systems (decorative plants)
- Hydroponical systems in horticulture
- International floriculture and nursery
- Land use systems for horticultural crop
- Methods of monitoring and evaluation of technical processes in horticulture
- Organic farming and sustainable land use
- Urban horticulture – an introduction

#### Crop ecophysiology

- Physiology of woody plants and applied dendrology

#### Economics

- Management in horticulture

#### Plant protection

- Lab course on selected plant pathogens/pests or control management
- Diagnosis of plant pathogens
- Post harvest quality and stored product protection

#### Plant and soil biochemistry

- Effects of plant nutrition and other environmental factors on composition and quality of vegetable and ornamental plants
- Plant nutrition and nutrient supply in environmentally friendly horticultural systems
- Symbiotics in plant nutrition

#### Plant biotechnology

- Biology of generative propagation in horticulture

#### Complementary Activities (at least 5 ECTS)

- Information and communication technology in horticultural science
- Current issues in horticulture (Field trip)