



Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

SLUkurs

Syllabus

PLG0015 Microbial Horticulture, 6.0 credits

Syllabus approved

2009-03-06

Subjects

Biology

Education cycle

Third cycle

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

Admitted to the PhD education

Objective, including learning outcomes

The course is an introductory course to the postgraduate school "Microbial Horticulture" and intends to create a common level for students in the postgraduate school coming from different disciplinary background regarding horticulture and

microbiology. The aim is to learn about the involvement of microorganisms as tools and threats in horticultural production and processing of horticultural produces. The course is based on different events within the horticultural production and value chain. As a special topic, the students will be introduced to existing problems in horticultural industries and design potential solutions.

Content

Involvement of microorganisms in horticultural production, produces, produce refinement and logistics and considers specifically the following aspects

- Microorganisms associated to horticultural production systems and produces
- Consumer demands and quality of horticultural produces from a microbial perspective, incl. legislation
- Soil, growing medium, plant material, incl. mushrooms
- Plant establishment
- Cultural management
- Harvest and storage
- Processing and produce refinement
- Packing and logistics

Course elements:

Lectures

Laboratory exercises

Seminars

Excursion

Students' own work

Requirements for examination

Written or oral examination of the literature to be prepared before the course start. Presentation of group assignments during the course. Poster presentation of own research work will be included in order to get the training, have the poster evaluated, and inform others about own research. The poster presentation is a prerequisite for full credits of the course.

Additional information

<http://www.phd-microhort.com/>

Course time: 6-19 September 2009

Course participation is guaranteed to PhD-students enrolled in the postgraduate

school "Microbial Horticulture". Other PhD-students are invited to participate if the course is not filled.

Deadline of application: May 31, 2009.

Responsible department

Faculty of Landscape Architecture, Horticulture and Crop Production Science