

Title: Mycology – its basics and state-of-the-art applications

Syllabus approved: 2017-06-22

Credits: 4 HEC

Subject: Mycology, Biology, Plant pathology

Language: English

Prerequisites:

Applicants must be admitted to PhD studies within the natural sciences. Priority will be given to PhD students associated with the SLU Graduate School in Organism Biology.

Objectives:

This intensive course aims to provide students with basic mycological concepts (e.g., taxonomy, physiology, genetics, etc.) as well as in-depth research examples in the form of lectures within selected areas of mycology. After the course, the students should have reached a higher understanding of basic principles of mycology and how these apply to more in-depth areas of study, including their areas of research. The course will also offer the students opportunities to discuss methods and tools suitable for future work within the area.

Content:

The course consists of preparatory literature reading (review articles), lectures, discussions, and a final oral presentation, hence active participation by the students is required. The basic concepts will be complemented by in-depth research examples from SLU scientists and keynote speakers from other research institutions in Sweden and abroad.

Examination:

At the end of the course, the students will deliver an oral presentation in which they will discuss what they have learned during the course and how it could be applied or is relevant to their own research projects. Other members from the research community at SLU would be invited to serve as the student's audience.

Literature: Seven scientific publications within the area based on the activities of the key-note speakers.

Additional information: This course is given as a postgraduate course within the SLU Graduate School in Organism Biology

Learning outcomes:

- Become familiar with basic concepts in mycology (e.g., fungal reproduction, physiology, taxonomy, etc.) to gain an overview of the research field.
- Be able to reflect on and formulate research questions relating to mycology and how these concepts apply to their areas of research.