

Syllabus for Plant Systematics 7,5 ECTS credits

1. Course details

Approved by the Education Committee of the Faculty of Science 12-04-2007. The syllabus is valid from 01-07-2007. The course is at the Second cycle.

2. General information

The course is part of the main field of study in Biology at the Faculty of Science. The course is optional in a Bachelor's or Master's degree in Science, major Biology. The course is also offered as a single subject course. The language of instruction is Swedish.

3. Learning outcomes

On completion of the course, the students shall have acquired the following knowledge and understanding:

- be able to describe the biological diversity among vascular plants (ferns and fern-allies, gymnosperms and angiosperms)
- be able to understand phylogenetic patterns based on molecular methods both taxonomical and biogeographical
- be able to explain important principles concerning nomenclature and species names
- of methods used in phylogenetic reconstruction and be able to evaluate phylogenetic hypotheses
- of different ways of defining the species concept
- of the use of systematics in society and industry
- be able to apply plant systematics in other contexts including conservation and information to a general audience.

4. Course content

The aim of the course is to provide a broad knowledge about plant diversity on Earth, and the principles and methodology used in plant systematics, including nomenclature, herbarium work, phylogeny reconstruction, etc. The course will also give knowledge about plant biogeography, ethnobotany, conservation, and other applications of systematic botany.

5. Teaching and assessment

Teaching consists of lectures, seminars and field exercises. Seminars and field exercises and the course elements associated with these are compulsory.

Examination takes the form of written tests during the course.

Students who fail the ordinary tests will have an opportunity to take another test in close proximity to the ordinary test.

6. Grades

Students are awarded one of the following grades: Distinction, Pass or Fail.

To be awarded a Pass on the whole course the students shall have passed the test and to have participated in 80 % of compulsory course elements.

The final grade for the course is determined by the aggregated results of the different parts of the examination.

7. Admission requirements

To be eligible for the course requires: 90 ECTS credits natural science studies including courses corresponding to MOB101 Cell Biology 15 ECTS credits, BIO006 Genetics and Microbiology 15 ECTS credits, BIO503 Botany 12 ECTS credits and at least 3 ECTS credits in Floristics

8. Literature

According to a list determined by the department, available at least five weeks before the start of the course, see the web page for Undergraduate Studies in Biology, <http://www.lu.se/biology-education>

9. Further information

The course cannot be credited as part of a degree along with BIO660 Plant Systematics 5 credits or BIO631 Systematic Botany and Biodiversity 10 credits.