



Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

SLUkurs

Syllabus

PFS0077 Forest ecology and management, 3.0 credits

Syllabus approved

2011-09-28

Subjects

Forest Management/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

Accepted as PhD-student in ecology or forest management or related subjects.

Objective, including learning outcomes

The objective of the course is to give students broad insights into recent advances in research related to forest ecology and forest management being conducted at SLU in Umeå. The design of the course; lectures in combination with seminars

with leading researchers, will allow for good contact within the PhD-student group and between PhD-students and researchers. A further objective of the course is thus to provide possibilities for the PhD-students to build functional networks.

Content

The course will cover the following topics; Natural and artificial regeneration of forest ecosystem, including nitrogen cycling and tree-growth, Adapted forest management in relation to multiple-use forestry , water quality and tropical forestry, Forest history and historical legacies in todays ecosystems, Methodological aspects including stable isotopes and soil/sediment chemistry and tree adaptation to abiotic factors, Mire ecology and green house gases in boreal ecosystem and others. Each lecture will be accompanied with the most recent international literature in each field.

Requirements for examination

The students will be examined individually based on active participation in scientific seminars during the course, including prepared questions based on literature reading prior to seminars. There will also be an individual writing assignment which will be graded.

Additional information

The course will comprise a reading assignment (January 2-6), an intensive lecture/seminar week in Umeå (January 9-13) and a writing assignment (January 16-20). During the second week all students must be in Umeå, during the first and the third week the students need not be in Umeå. Professor Lars Östlund is the responsible course organizer (Lars.Ostlund@slu.se, 070/511 12 99) Apply by sending a short CV, a brief presentation about your research (maximum half a page) and a brief statement (a few sentences) why you want to take this course. All information should be in ONE document labeled with your name. Send the application to Lars.Ostlund@slu.se

Responsible department

Department of Forest Ecology and Management