



Sveriges lantbruksuniversitet  
Swedish University of Agricultural Sciences

# SLUkurs

## Syllabus

**PFS0081 Experiments in mixed forest, 3.0 credits**

## Syllabus approved

2012-01-30

## Subjects

Forest Management

## 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 a PhD student in the field of forest ecology, forest management or related subjects.

## Objective, including learning outcomes

The objective of the course is to provide students a comprehensive understanding of mixed forest research with a special focus on scientific experimentation. Each

student has to select and analyze one group of experiments with a certain trait of tree species composition, and to write an essay about the analysis and results. After completing the course, the student should be able to demonstrate advanced-level knowledge, skills and competence in experimental silviculture in mixed forests.

### **Content**

Terminology and methodology in ecological and silvicultural mixed forest research (i.e framework for analyzing mixing effects, technique of meta-analysis).

Examples of mixed forest research from other countries (i.e. research in Canadian western boreal mixedwoods, or Finnish mixed forest research).

Evaluation of different long-term experiments in mixed forest stands with exercise. Exercise to design a specific experiment in mixed forest.

Excursion to typical Swedish mixed forest stands and experiments in Asa experimental forest.

Conducting an analysis of experiments with one certain trait of tree species composition.

### **Requirements for examination**

A written essay. Max 10 pages.

### **Additional information**

The PhD course is held in combination with a workshop on European mixed forest experiments.

### **Responsible department**

Department of Southern Swedish Forest Research Centre