

# **PFG0071, Enhancing forest resilience for an uncertain future, 3.0 Hp**

## **Syllabus**

Finalized by: Ida Wallin, 2023-02-13

Valid from: 2023H

### **Level within study regulation:**

Third cycle

### **Subject:**

- Forest Management

### **Grading scale:**

Pass / Failed

### **Course language:**

Swedish

### **Entry requirements:**

Open to PhD students but MSc students in their last year and postdocs are also welcome./  
Öppen för doktorander, studenter på masternivå inne på sitt sista år och postdocs.

### **Objectives:**

The purpose of the course is to acquire an in-depth theoretical understanding about forest resilience under climate change, and to develop analytical skills for evaluating forest resilience. The course will address different aspects of forest resilience:

- Concepts-from gene to landscape: impact of climate and management strategies to increase resilience
- Socio-economic and political analysis; risk assessment
- Novel data and inter-disciplinary approaches to study resilience

## **Content:**

During the course students will have:

1. Pre-course assigned readings from provided scientific literature in forest resilience related to the topics in preparation for the intensive in-door and out-door classes during the course week
2. Individual oral presentation of the students PhD project
3. Individual short assignment where students will present a forest resilience issue of the students' choice representative of the region which they come from in relation to the literature provided
4. Lectures from invited national and international guests/experts in the various fields related to forest resilience
5. Focussed group discussion topics within lectures
6. R lab sessions focussed on quantifying resilience using specific packages such as persistR- working in groups with assigned data
7. Field excursions to discuss experimental design for forest resilience to various forest disturbances
8. Final group presentations

## **Modes of assessment:**

For passing the course the students are required to participate in exercises, classes, excursions and analysis of data; conduct a small group project and present it. All scheduled lectures and field trips are mandatory and in case of absence students will have to write an essay as compensation for that particular subject. - If a student has failed an examination, the examiner has the right to issue supplementary assignments. This applies if it is possible and there are grounds to do so.

- The examiner can provide an adapted assessment to students entitled to study support for students with disabilities following a decision by the university. Examiners may

also issue an adapted examination or provide an alternative way for the students to take the exam.

- If this syllabus is withdrawn, SLU may introduce transitional provisions for examining students admitted based on this syllabus and who have not yet passed the course.
- For the assessment of an independent project (degree project), the examiner may also allow a student to add supplemental information after the deadline for submission. Read more in the Education Planning and Administration Handbook.

### **Organisation:**

Department of Southern Swedish Forest Research Centre

## **Supplementary information**

### **Other information:**

- The right to participate in teaching and/or supervision only applies for the course instance the student was admitted to and registered on.
- If there are special reasons, students are entitled to participate in components with compulsory attendance when the course is given again. Read more in the Education Planning and Administration Handbook.