



## Course syllabus

Faculty Board of Science and Engineering  
School of Engineering

4TS514 Träets struktur, egenskaper och identifiering, 7,5  
högskolepoäng

Wood - structure, properties and identification, 7.5 credits

### **Main field of study**

Forest and Wood Engineering

### **Subject Group**

Forest Science

### **Level of classification**

Second Level

### **Progression**

A1N

### **Date of Ratification**

Approved by Organisational Committee 2009-12-15

The course syllabus is valid from autumn semester 2010

### **Prerequisites**

Necessary qualifications are 90 higher education credits in the program Forest and Wood Engineering or Mechanical Engineering and knowledge equivalent the courses Forest Products TS9131 and Wood as an Engineering material TS9141.

### **Expected learning outcomes**

After this course the students will have deep knowledge in method and handling for manage the identifying of wood and have knowledge about the connection between the structure of wood and specific physical properties of wood.

### **Content**

Nordic hard wood and soft wood will be the main subject in this course.  
The contents are:

- Structure and function of the tree (repetition)
- Structure of wood on macro-, micro- and submicroscopic level
- Chemical composition of wood
- The influence of the structure on wood properties
- Identification of wood

### **Type of Instruction**

Lectures, laboratory experiments and exercises are parts of the teaching. Compulsory items are included and will be specified at beginning of the course

## Examination

The course is assessed with the grades U,3,4 or 5.

Examination and grades are based on the level reached by the work supplied by the student. Examination can be oral or written.

The result of the project work can be presented in written form or at project seminars.

## Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

## Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: TSD951

## Required Reading and Additional Study Material

### **Required reading**

Hoadley, R.B, *Identifying wood - Accurate results with simple tools*. Taunton Books & Videos, 1990. 223 pages.