



# AG2416 Advanced Remote Sensing 7.5 credits

Avancerad fjärranalys

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

## Establishment

Course syllabus for AG2416 valid from Autumn 2013

## Grading scale

A, B, C, D, E, FX, F

## Education cycle

Second cycle

## Main field of study

Built Environment

## Specific prerequisites

- a) Eligibility to CSAMH program
- b) Eligibility to TTGTM program

AG1324 Photogrammetry and Remote Sensing

For single course students:

A course on Introductory Remote Sensing or equivalent

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

## Intended learning outcomes

After the course, students should be able to understand sophisticated techniques for acquiring remotely sensed data, to apply advanced methods for image processing and analysis, and to use remotely sensed data for various applications such as planning, environmental monitoring and natural resource management.

## Course contents

- Remote Sensing & In Situ Data
- Image Processing
- Image Analysis
- Image Classification
- Digital Change Detection
- Remote Sensing Applications

The course is composed of lectures, laboratory exercises, project and student presentations.

## Disposition

Lectures 20 hours

Labs 32 hours

Project 10 hours

## Course literature

Introductory Digital Image Processing: A Remote Sensing Perspective, 3rd edition, Prentice Hall, Upper Saddle River, New Jersey. 526 pp.

## Examination

- LAB1 - Laboratory Work, 3.0 credits, grading scale: P, F
- PRO1 - Project, 1.5 credits, grading scale: P, F
- TEN1 - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

## Other requirements for final grade

LAB1 - Laboratory Work, 3.0 credits, grade scale: P, F

PRO1 - Project, 1.5 credits, grade scale: P, F

TEN1 - Examination, 3.0 credits, grade scale: A, B, C, D, E, FX, F

## Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.