



# AG1312 Introduction to Web Mapping 7.5 credits

Introduktion till webbpublicering av kartor

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 AG1312 valid from Autumn 2010

## Grading scale

P, F

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

Completed and documented upper secondary education including documented proficiency in English B or equivalent (e.g., TOEFL, IELTS).

## Language of instruction

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

## Intended learning outcomes

After the course the students shall:

- Understand how digital maps are built and georeferenced
- Understand basic concepts of GIS such as data collection, raster- and vector data structure, search for information and simple analysis methods
- Understand how the world wide web functions, how websites are built and different web-techniques (HTML, style sheets, javascript)
- Be able to create interactive commands in a web environment using javascript and to publish interactive maps on the web, in Google Earth and Google Maps based on javascript
- Be able to create maps coupling XML files with geographic elements in a web environment

## Course contents

The course consists mainly of three parts:

1. Basic knowledge of GIS, including raster- and vector data structure, data collection for GIS, map projections and reference systems and simple analyses in GIS,
2. Basic knowledge in web publishing, including publication of maps in Google Earth and Google maps,
3. Publication of interactive maps in a web environment using javascript and xml.

## Disposition

Course will be given as internet-based distance learning course with possibility to meet a teacher at four occasions.

## Course literature

Compendium and lecture notes available via the internet

## Equipment

The course is given via the internet therefore requires that the student has some form of broadband access. Participants will be provided with a platform for storage/publication of own webpages. Course work can be done using PC or Mac, though compendium and instructions are written for PC.

## Examination

- LAB1 - Laboratory Work, 7.5 credits, grading scale: P, 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

Approved compulsory laboratory exercises and assignments (LAB1 7,5 credits). Work is performed individually and continuously submitted to the teacher during the course.

## 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.