



# AG2412 Geovisualisation 7.5 credits

## Geovisualisation

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 AG2412 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

For single course students:

At least 7.5 ECTS in GIS/geomatics courses

## 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 student should be able to design analogue and digital maps and 3D models of geographical objects; and to publish maps as electronic atlases.

## Course contents

- Map symbols and graphic variables: size, colors, textures, orientation, patterns.
- Topographic and thematic map design and symbolisation
- Map design for presentation, synthesis, analysis and exploration of spatial data
- exploratory data analysis, graphical data analysis techniques
- 2D, 2.5D, 3D and 4D graphics and its representation
- virtual models
- cartography on internet, publication alternatives for distribution of electronic atlases
- programming, scripting and automation for visualization and publishing electronic atlases

## Disposition

Lectures 26h  
Laboration 40h  
Written examination

## Course literature

M.-J. Kraak & F. Ormeling, Cartography – Visualization of Geospatial Data, Prentice Hall, 2nd edition, 2003.

## Examination

- LAB2 - Laboratory Work, 3.0 credits, grading scale: P, F
- PRO1 - Project, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- TENA - 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

Written exam (TEN1; 3,0 cr) (A/B/C/D/E/FX/F)

Approved laboration (LAB1; 3.0 cr) (P/F)

Project (PRO1; 1,5 cr) (A/B/C/D/E/FX/F)

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## 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.