



AG2412 Geovisualisation 7.5 credits

Geovisualisation

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

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

The 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

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

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

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.