



AG2429 Geovisualization 6.0 credits

Geovisualisering

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

Establishment

Course syllabus for AG2429 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

The major objective of this course is to learn principles of cartography and techniques for effective visualization of geographic data. On the completion of this course, students should be able to design analogue and digital cartographic products using an existing geographic information system, and to gain critical thinking skills essential to avoid being misled by cartographic products.

Course contents

- Map symbols
- Visual variables: spacing, size, orientation, shape, arrangement, height, hue, value, saturation.
- Data classification
- Topographic and thematic map design and symbolization
- Map design for presentation, synthesis, analysis and exploration of spatial data
- Exploratory data analysis, graphical data analysis techniques
- 2D, 2.5D, and 3D data and their representation
- Temporal data and their representation

Disposition

Lectures 20 h

Laboration 40 h

Written examination

Course literature

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

Examination

- PRO1 - Project Report, 1.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 2.5 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Exercises, 2.5 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.

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

Other requirements for final grade

Approved laboration, LAB1, 2.5 hp, grade scale P, F

Approved project, PRO1, 1.0 hp, grade scale: A, B, C, D, E, FX, F

Written examination, TEN1, 2.5 hp, 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.