



# AG2414 Spatial Analysis 7.5 credits

## Rumslig analys

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 AG2414 valid from Spring 2011

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Built Environment

## Specific prerequisites

AG2412 (1N1656) Geovisualisation

For single course: A completed Bachelor of Science in Engineering or 180 credits academic studies in the field of Technical Science, Environmental Science, or planning and documented proficiency in English corresponding to English B.  
Furthermore AG2412 Geovisualisation or equivalent

## Language of instruction

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

## Intended learning outcomes

The course is designed to familiarize students with the principles of spatial analysis and advanced concepts/techniques used to explore, analyze and model geospatial data.

## Course contents

- Cartographic Modeling and Multi-Criteria Evaluation
- Spatial Statistics, Interpolation and Kriging
- Space Syntax and Urban Morphology
- Cellular Automata and Agent-based Modeling
- Geographical Data Mining

## Disposition

Lectures 12h  
Laborations 32h  
Seminar 6h  
Written examination

## Course literature

To be announced.

## Examination

- LAB2 - Laboratory Work, 3.0 credits, grading scale: P, F
- SEM1 - Seminar, 1.5 credits, grading scale: P, F
- TEN2 - Written 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 (TEN2; 3 cr)  
Seminar (SEM1; 1,5 cr)  
Approved laboratory reports (LAB2; 3 cr)

## 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.