



# AG2301 Traffic Data Collection and Analysis (short course) 4.5 credits

Insamling och analys av transportdata (kort kurs)

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 AG2301 valid from Autumn 2022

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Built Environment

## Specific prerequisites

Degree of Bachelor in technology, natural sciences, finance, planning or a similar higher education qualification with at least 60 credits. (ECTS) in mathematics, physics, statistics and/or computer science according to the conditions for entry requirements to master's

education in transport and geographical information systems Together with documented knowledge in English equivalent English 6/B

## Language of instruction

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

## Intended learning outcomes

After passing the course, the student should be able to

- Identify appropriate methods for transport traffic and spatial data collection
- Understand transport data needs
- Understand the role of the sample in the data collection process
- Be able to draw statistical conclusions from hypothesis test and interval estimations
- State and estimate linear regression models and discrete choices models
- Apply methods and interpret results by means of statistical software

## Course contents

- Transport geographical information needs
- Sampling and statistical tests
- Hypothesis test and confidence interval
- Linear regression and applications (in transport and traffic)

## Examination

- LABA - Hand in assignment, 2.0 credits, grading scale: P, F
- TENA - Written exam, 2.5 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.

Examiner decides, based on recommendation from KTH Royal Institute of Technology's coordinator for disabilities about possible adapted examination for students with documented, permanent disabilities. The examiner may permit other examination formats at the re-examination of individual students.

## Other requirements for final grade

Final grade comes to establish of grade on examination and labs with grading scale A-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.