

FAK3136 Intro to Theory and Science and Research Methodology, Social Science 4.5 credits

Intro till vetenskapsteori och forskningsmetodik, samhällsvetenskap

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

Establishment

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Entry requirements for PhD studies.

Language of instruction

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

Intended learning outcomes

After having completed the course, the student should, with regards to the theory and methodology of science, both orally as well as in writing, be able to:

- Identify definitions and descriptions of concepts, theories and problem areas, as well as identify the correct application of these concepts and theories.
- Account for concepts, theories and general problem areas, as well as apply concepts and theories to specific cases.
- Critically discuss the definitions and applications of concepts and theories as they applies to specific cases of scientific research.

Course contents

The following is an incomplete list of topics covered in the course.

- Scientific knowledge
- · Hypothesis testing
- Observations and measurements
- Experiments
- Models
- Statistical reasoning
- Causes and explanations
- · Qualitative methods
- Economic methodology
- · Risk and risk assessment
- Research ethics

Examination

- SEM1 Seminars, 1.5 credits, grading scale: P, F
- TEN1 Digital examination, 3.0 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.

A student may request a home exam, with the maximum grade of E, if two requirements are fulfilled: (1) This is the last remaining exam left before graduation. (2) It is not possible for the student to attend the written exam because the student is, at the point of the request, residing outside of Sweden and will be residing outside of Sweden for at least twelve months following the request. The examiner approves or denies these requests

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.