

Computational Approaches to the Study of Organizations

Single subject and programme course

7.5 credits

Beräkningsmetoder för att studera organisationer

771A39

Valid from: 2020 Autumn semester

Determined by

Course and Programme Syllabus Board
at the Faculty of Arts and Sciences

Date determined

2020-04-06

Main field of study

Computational Social Science

Course level

Second cycle

Advancement level

A1F

Course offered for

- Master's Programme in Computational Social Science

Entry requirements

- Bachelor's degree equivalent to a Swedish Kandidatexamen within the humanities, social-, cultural-, behavioural-, natural-, computer-, or engineering- sciences
- English corresponding to the level of English in Swedish upper secondary education (English 6/B)
- 45 ECTS credits completed in Computational Social Science

Intended learning outcomes

After completion of the course, the student should at an advanced level be able to:

- describe, combine and apply models in organization theory to analyse research questions
- integrate knowledge of quantitative and computational methods into the study of organizations
- describe and evaluate applications of quantitative and computational methods in organizational scholarship
- evaluate the current state of quantitative empirical research on organizations
- formulate research questions of relevance to the contemporary study of organizations

Course content

This course engages with research on organizations, with a specific focus on quantitative methods and computational models. Theories and empirical research in the study of organizations are discussed and compared, including organizational demography, internal labour markets, organizational decision making, and organizational ecology. Research papers on organizations are read and assessed, theoretical models of organizations are formulated, and empirical predictions from theoretical models are derived. Special attention will be paid to the use of complex statistical and computational methods in organization research.

Teaching and working methods

The teaching consists of lectures, readings, and seminars. Homework and independent studies are a necessary complement to the course.

Language of instruction: English.

Examination

The course is examined through

- written group assignments, grading scale: EC
- active participation in seminars, grading scale: EC
- written individual final take home exam , grading scale: EC

A passing grade on the seminars is required to pass the course.

The group assignments and individual take home exam provide course points.

To pass (E) as the final grade on the course, at least 50% of the course credits are required

For D as the final grade on the course, at least 61% of the course credits are required

For C as a final grade on the course, at least 71% of the course credits are required

For B as a final grade on the course, at least 81% of the course credits are required

For A as a final grade on the course, at least 91% of the course credits are required

Detailed information about the examination can be found in the course's study guide.

If special circumstances prevail, and if it is possible with consideration of the nature of the compulsory component, the examiner may decide to replace the compulsory component with another equivalent component.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it. If the coordinator has instead recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

Grades

ECTS, EC

Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is carried out in such a way that both men's and women's experience and knowledge is made visible and developed.

Department

Institutionen för ekonomisk och industriell utveckling