



Course syllabus

School of Business and Economics
Department of Economics and Statistics

1NA082 Osäkerhet och strategiskt beslutsfattande, 7,5
högskolepoäng

Uncertainty and strategic decision making, 7.5 credits

Main field of study

Economics

Subject

Economics

Level

First cycle

Progression

G1F

Date of Ratification

Approved 2024-02-05.

Revised 2025-06-09. Literature.

The course syllabus is valid from autumn semester 2025.

Prerequisites

Economics 30 credits and Statistics 15 credits, or the equivalent. English 6, or the equivalent.

Objectives

After completing this course the student should be able to:

- define and explain different economic concepts of uncertainty
- decide about and motivate appropriate uncertainty concepts in economic applications
- analyse strategic situations using game theory and other analytical methods

- critically discuss the assumptions made when analysing strategic situations
- critically discuss the reliability of the results obtained from strategic analysis

Content

The course contains:

- game-theoretical concepts and solution methods under uncertainty
- economic concepts of uncertainty (e.g., risk, probability, ambiguity, asymmetric information, moral hazard, adverse selection, strategic uncertainty)
- modelling and analysis of uncertainty and strategic decision situations
- economic applications (e.g., price discrimination, insurance, employment contracts, auctions, oligopoly, cost uncertainty)

Type of Instruction

The teaching consists of lectures and exercises.

Examination

The course is assessed with the grades A, B, C, D, E or F.

The course is examined through an individual written examination 5.5 credits and a written group assignment 2 credits.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail.

Resit examination is offered in accordance with Linnaeus University's Local regulations for courses and examination at the first- and second-cycle levels.

In the event that a student with a disability is entitled to special study support, the examiner will decide on adapted or alternative examination arrangements.

Course Evaluation

A course evaluation should be conducted during the course or in connection with its conclusion. The results and analysis of the completed course evaluation should be promptly communicated to students who have completed the course. Students participating in the next course instance should be informed of the results of the previous course evaluation and any improvements that have been made, no later than at the start of the course.

Overlap

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course:

1NA026:2 with 7.5 credits.

1NA016:2 and 1NA072 with 3 credits.

Required Reading and Additional Study Material

Required reading

Varian, Hal R. & Melitz Marc J. *Intermediate Microeconomics with Calculus*.

International Student Edition. Norton. Second edition. About 200 pages.

Selected scientific articles. About 50 pages.