



# AH2111 Logistics, Advanced Project Course 15.0 credits

Logistik, fördjupningskurs med projekt

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

## Establishment

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

## Specific prerequisites

A completed Bachelor's degree in Engineering, Science, Economics or Planning including and documented proficiency in English B or equivalent.

AH2102- Logistics and transport, or knowledge in Supply Chain Management at advanced level or similar

## Language of instruction

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

## Intended learning outcomes

The course is intended to give the students the knowledge of contemporary methods used in reengineering and performance improvement of supply chains through work with actual problem in association with a company involved in logistics. The course involves true application of basic decision models for logistics operation and management. After the course the student will be able to understand underlying concepts in supply chains, explain reasons of particular observed behaviours, understand problems and develop solutions.

In particular the student will be capable of:

- Model and analyse how different policies /decision alternatives affect grow, robustness, stability, performance and profitability of supply chains
- Model and analyse multi-tier 'supply-make-deliver' chains
- Make a conceptual design of a supply chain to specification of a given market characteristics

## Course contents

Decision models at detailed design level are treated. The student will be taught how to effectively operate supply chains, and after the course he/she will be able to:

- Identify problems in supply chain operations
- Collect data from company-wide databases
- Conduct planned experiments to find up relationships between process parameters
- Implement supply chain improvements projects.

## Course literature

John Sterman, Business Dynamics: Systems Thinking and Modeling for a Complex World, McGraw-Hill/Irwin, 2000

## Examination

- ÖVN1 - Exercise, 15.0 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.

If the course is discontinued, students may request to be examined during the following two academic years.

ÖVN1 - Exercise, 15.0 credits, grade scale: A, B, C, D, E, FX, F

## Other requirements for final grade

Approved laboratories and seminars

Written report, which is also orally presented

## 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.