



AF1780 Data Analysis and Programming for Management and Finance 7.5 credits

Dataanalys och programmering för ekonomer

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

The course syllabus is valid from Spring 2025 according to the Head of school decision: A-2023-2302, 3.2.2 Decision date: 2023-10-06

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Mathematical knowledge corresponding to the learning outcomes in AF1763 Mathematics 1, Linear Algebra and AF1764 Mathematics 2, Calculus in one variable.

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:

- Present findings about financial data using different visualisation techniques
- Combine, manage and analyse heterogeneous data from multiple sources
- Break down problems into smaller parts and use programming to solve them
- Apply programming techniques for effective management of projects, reports and finance.

Course contents

The course aims to provide basic knowledge of data management in finance, modelling and information flow and basic knowledge of programming. The course contains the following parts:

- Different types of code and basic principles such as variables, functions and conditions
- Basic data structures, such as lists and arrays
- Data management and analysis
- Communication and management in projects using your own programming code

Examination

- LAB1 - Computer assignment, 3.0 credits, grading scale: P, F
- LAB2 - Computer assignment, 2.0 credits, grading scale: P, F
- LAB3 - Computer assignment, 1.0 credits, grading scale: P, F
- TEN1 - Written exam, 1.5 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.

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.