



# II1308 Introduction to Programming 1.5 credits

## Introduktion till programmering

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 official course syllabus is valid from the fall semester 2024 in accordance with the decision by the Head of the ITM School: J-2023-2333. Date of decision: 2023-10-10

## Grading scale

P, F

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

## 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:

- use the command-line interpreter of the computer to solve simple assignments containing storing units, folders, and files
- explain and use basic programming concepts such as variables, data types, expressions, input and output, and constructs for sequence, selection, and iteration
- write and execute simple programs

in order to

- be able to work in the computer environment at KTH Royal Institute of Technology
- be prepared for courses where programming is included.

# Course contents

- Command interpreters in different environments: Windows, macOS, Linux. Navigation among units and folders. The concepts current folder, absolute and relative path. Differences in accessibility between local units and remote units. File types and file extensions. How one creates, edits and saves a text files. How one starts and stops a programs. Redirecting output from a program to a file.
- Variables and the data types of variables (integer, floating point, references). The difference between static and dynamic typed variables. Expressions that calculate a value and variable assignment. Representation of characters and text. The default units for input and output. The concepts sequence, selection and iteration.

# Examination

- LAB1 - Lab assignments, 1.5 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.

# 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.