



# DM1595 Program Development for Interactive Media 7.5 credits

Programutveckling för interaktiva medier

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

## Establishment

On 2019-10-15, the Head of School of EECS has decided to establish this official course syllabus to apply from the autumn semester 2020 (registration number J-2019-2201).

## Grading scale

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

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

Completed courses corresponding to DD1318 Programming and scientific computations and DD1320 Applied computer science, or the equivalent.

## Language of instruction

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

## Intended learning outcomes

Having passed the course, the student should be able to

- choose the most suitable technical platform to create user interfaces for a new interactive system
- make simple media technology prototypes for digital interactive systems by means of specialized tools for programming prototypes
- program simple digital interactive media technology systems based on different technical platforms, including web, and different modes of interaction
- use real time programming for different media technology systems
- model and structure data in a relational database
- use SQL to formulate queries to a relational database
- cooperate with other students to design, develop prototypes for, and implement interactive systems

in order to

- be able to apply technologies and processes to create prototypes and develop digital interactive media technology systems based on different technical platforms.

## Course contents

- Basic object-oriented programming
- Basic database theory
- Basic use of databases
- Programming for interactive media on different platforms

## Examination

- LAB1 - Laboratory work, 7.5 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.

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

## 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.