



# ML1601 CAD 4.0 credits

## CAD

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

Course syllabus for ML1601 valid from Autumn 2017

## Grading scale

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

On completion of the course, the student should be able to:

- use a 3D CAD system to create digital solid models
- create parameterized data models
- create assembly models
- create mechanism models with animation
- create dimensioned drawings based on solid models and assemblies
- read and interpret two-dimensional technical drawings
- have insight in tolerancing
- Solve an assignment using a CAx-tool (CAx-Computer-aided technologies) in a time efficient and structured manner/way

## Course contents

- Introduction to the CAD system and part modelling
- Part modelling and assembly modelling
- Documentation of part and assembly drawings.
- The basics of technical drawings
- Tolerancing
- Storing and handling of files in a PLM system (PLM-Product Lifecycle Management)

## Course literature

Kompendium utdelad vid kursens start.

## Examination

- INLA - Assignment A, 2.0 credits, grading scale: P, F
- PROA - Project A, 2.0 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.

## Other requirements for final grade

Written assignment A

Project A

## 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.