



# MF2019 CAD 3D-modelling and Visualization 6.0 credits

CAD 3D-modellering och visualisering

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

## Establishment

Course syllabus for MF2019 valid from Autumn 2010

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Mechanical Engineering

## Specific prerequisites

CDEPR(P): MF1040/MF1014/4F1814 eller CMAST(M): MF1044/MG1003/4G1162, MF1045/MG1004/4G1163 eller CFATE(T): MF1015/4F1815

Materstudentes:TIPUM/TIPDM

Other students: Students with Bachelor exam or Master exam in Machine Design or similar  
Swedish B and English A or similar

## Language of instruction

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

## Intended learning outcomes

The aim of the course is to provide an introduction to 3D-modelling and visualization. The participants shall be able to create three-dimensional geometric models, generate drawings, render photo-realistic pictures and create animations.

## Course contents

Lectures and demonstrations cover geometric modelling. Wireframe, surface and solid models. Generation of drawings. Visualization and rendering. Animation.

## Examination

- ÖVN1 - Exercise, 3.0 credits, grading scale: P, F
- ÖVN2 - Project Work, 3.0 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.

## Other requirements for final grade

Hand in CAD assignments (ÖVN1; 3 cr)  
An individual project (ÖVN2; 3 cr).

## 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.