



Course syllabus

Faculty Board of Science and Engineering

School of Engineering

1BY011 Datorstödd ritning CAD, 7,5 högskolepoäng

1BY011 Computer Aided Drawing , CAD, 7.5 credits

Main field of study

Civil Engineering

Subject Group

Building Technology

Level of classification

First Level

Progression

G1N

Date of Ratification

Approved 2010-06-23

Revised 2012-06-15 by School of Engineering. Review of literature.

The course syllabus is valid from spring semester 2013

Prerequisites

General entry requirements and Mathematics C.(Fieldspecific entry requirements 3, except for Science studies B and Civics A).

Objectives

After completing the course the student is expected to

- have knowledge of and skills in using computerised drawing programs for CAD
- have been oriented in the knowledge of drawing techniques with the emphasis on construction drawing - drawing methods and regulations.

Content

The course comprises the following elements:

- General information on CAD
- The coordinate system
- Drawing and change commands
- Screen handling and drawing support
- Setting measurement scales
- Adjustments

- Symbols, external references, attributes and raster images
- Scale drawing in model and paper space
- Print-outs
- Study visits and mentor company tasks. Study visits in accordance with teacher instructions. Programme students perform predetermined mentor company assignments, which are presented in writing. Independent course students make the corresponding written presentations of course elements and/or study visits in accordance with teacher instructions.

Type of Instruction

The teaching consists of lectures, laboratory work and drawing exercises. Participation in laboratory work and drawing exercises is compulsory.

Examination

The course is assessed with the grades U, 3, 4 or 5.

The assessment of student performances usually takes place during special examination periods and may take the form of project work, laboratory work, written assignments and oral examination. The assessment may be written as well as oral.

Course Evaluation

When the course has finished, an evaluation is compiled. The results are reported to the students and then archived according to the rules of the school.

Required Reading and Additional Study Material

Required reading

P Hansson, LG Pärletun *Kom igång med AutoCAD 2010*, Studentlitteratur, Hungary 2009.

Various exercises 25 p (25)

Gösta Hamrin, AMG Hamrin *Byggnadsritning, ritsätt och ritregler*, 1996. 6 p. (60)