



Faculty of Social and Life Sciences
Geo-Science

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Social and Life Sciences on 29 March 2010, and is valid from the Spring semester of 2010 at Karlstad University.

Course Code: NGGB66

Engineering surveying, 7.5 ECTS Credits
(Byggmätning, 7.5 Swedish credit points)

Degree Level: Bachelor

Increasingly In-depth Study: G2F (First cycle, has at least 60 credits in first-cycle course/s as entry requirements)

Language of Instruction

Swedish

Prerequisites

General admission requirements. Completed Geodetic Measuring Techniques or Applied Geodesy or equivalent plus Geodesy for GIS or equivalent. Informal qualifications in the form of professional experience may give eligibility.

Major Field of Study

MÅT (Surveying and Mapping)

Learning Outcomes

Upon completion of the course, students should be able to:

- give an account of basic documents, plans and standards for planning and construction,
- state and apply the measuring requirements in the field regarding accuracy and tolerance,
- use a field-specific software to handle measuring data the planning, measuring and follow-up stage regarding calculation and drawing,
- perform the planning, measuring and follow-up of so called building-site structures and terrain models using the relevant software,
- perform measuring and field exercises regarding common tasks in the construction and installation sector,
- report on a construction measuring project, its process and practical completion.

Content and Form of Instruction

Instruction is in the form of lectures, computer and field practice.

The course comprises the following components:

- study of basic documents, plans and standards used in planning and construction
- planning, completing and follow-up of building site structures and terrain models
- study of tolerance levels in building construction and installation
- theories on structures in plane and height
- practical training in handling measuring data in the planning, measuring and follow-up stage
- measuring and field practice followed by individual and group reports
- control, follow-up and documentation of measuring with regard to tolerance and accuracy requirements.

Reading List

See separate document.

Examination

Assessment is based on practical exercises, hand-in assignments and a written exam.

Grades

One of the grades 5 (Distinction), 4 (Some Distinction), 3 Pass, or Fail (U), is awarded in the examination of survey and mapping programme students. One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of single-subject students.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course assessment is based on student views and experiences as reported in written course evaluations and/or group discussions. Students will be informed of the result of the evaluation and of the measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional Information

Students who enrolled before 1 July 2007 will complete their studies in accordance with the requirements of the earlier admission. Upon completion students may request degree and course certificates to be issued under the current ordinance if they meet its requirements.

The local regulations for studies at the Bachelor's and Master's levels at Karlstad University stipulate the obligations and rights of students and staff.

The course is mandatory for the survey and mapping programme.

Karlstads universitet 651 88 Karlstad, Sweden
Tel +46-54-700 10 00 Fax +46-54-700 14 60
information@kau.se www.kau.se