



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 30 May 2007, and is valid from the Autumn semester of 2007 at Karlstad University.

Course Code: NGGB47

Geographic Information Systems II, 7.5 ECTS Credits

(Geografiska informationssystem II, 7.5 Swedish credit points)

Degree Level: Bachelor

Progressive Specialisation: G1F (First cycle, has less than 60 credits in first-cycle course/s as entry requirements)

Language of Instruction

Swedish

Prerequisites

General admission requirements plus the courses NGGA23, Database Technology or Database design and NGGA25 or equivalent.

Major Field of Study

MÄT (Surveying and Mapping), NGA (Physical Geography)

Learning Outcomes

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

- work independently with an advanced vector-based GIS,
- plan and carry out a GIS project based on a specific problem,
- use and analyse geographic information in accordance with topographical regulations,
- identify and solve problems relating to geographic databases,
- assess the quality of geographic data,
- work in groups to solve a given problem,
- listen and understand other people's way of reasoning.

Content and Form of Instruction

The course focuses on the functions and application areas of advanced vector-based GIS.

The approach to learning is problem-based.

Students carry out supervised independent GIS-projects in groups. New concepts and functions are introduced and processed. The project requires students to seek and use new information to move the project ahead.

The assignment/project is in the form of a client-consultant agreement in which the result of the project is to be presented to a non-initiated audience.

In computer exercises, for instance, students work on the structure of topological data designs, data editing and data quality.

Reading List

See separate document.

Examination

Examination is in the form of oral and written project reports.

Grades

EITHER one of the grades Pass with Special Distinction (5), Pass with Distinction (4), Pass (3), or Fail (U) OR one of the grades Pass with Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

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 GIS-engineering programme and the survey and mapping programme.

Revised on 29 March 2010 and valid from the spring term 2010.

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