



Faculty of Health, Science and Technology
Geo-Science

Syllabus

Analysis and preparing of geodata in FME

Course Code:	NGGD05
Course Title:	Analysis and preparing of geodata in FME <i>Bearbetning av geografisk information i FME</i>
Credits:	7.5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has less than 60 credits in first-cycle course/s as entry requirements (G1F)

Major Field of Study:

MAT (Surveying and Mapping)
NGA (Physical Geography)

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2022-02-05, and is valid from the Autumn semester 2022 at Karlstad University.

Prerequisites

60 ECTS credits in GIS (Geographical Information Systems) and Geographical Information Technology, with 22.5 ECTS credits completed, or equivalent

Learning Outcomes

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

- create and model geographical data processes in FME (feature manipulation engine) software,
- apply tools for data validation in a geographic database,
- create and evaluate workflows for geographic data manipulation,
- independently identify, formulate, and handle issues and analyse and evaluate different technical solutions in accordance with specifications, and
- complete a written account of problems and suggested solutions to geodata problems in

FME

Content

The course includes geographic data handling exercises and hands-on FME tasks. Course components include data format problems, data in different coordinate systems, and topology requirements for geographic objects. The course concludes with a project.

Reading List

See separate document.

Examination

Assessment is based on individual written hand-in assignments and a project presented orally and in writing. In one of the examination sessions, students are required to prove their identity.

If students have a decision from Karlstad University entitling them to Targeted Study Support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

Grades

One of the grades 5 (Pass with Distinction), 4 (Pass with some Distinction), 3 (Pass), 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 evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

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