



# HÖGSKOLAN I GÄVLE

## GIS raster/vector 7.5 cr

GIS raster/vektor 7,5 hp

Set by Board of Technology and Built Environment

**Version**

**Set at**

**Valid from**

5/30/07

**HT2007**

<b>Level</b>	G1F
<b>Education level</b>	First cycle
<b>Course identifier</b>	SB234B
<b>Credits</b>	7.5 cr
<b>Main field of study</b>	Geomatics
<b>Subject group</b>	Geographic Information Technology and Surveying
<b>Disciplinary domain</b>	Technology 100.0 %

**Learning outcomes**

On completion of the course, the student will be able to:

- apply different types of GIS applications
- demonstrate a deeper understanding on how GIS work
- perform geographical analyses in raster and vector environments
- summarise and evaluate scientific literature treating GIT
- perform a project work.

**Course content**

- Methods for data gathering in raster and vector environments
- Integration and conversions of different spatial data
- Integration of spatial and non-spatial data
- Editing and updating methods
- Raster and vector analyses
- Digital elevation models
- Graphical presentation of analysis results

**Teaching**

Lectures, assignments, seminars, project.

**Prerequisites**

A basic course in GIS or equivalent.

**Examination**

Written examination, Assignments, seminars and Project.

To pass the course, all assignments, seminar[s], project work[s], written examination[s], etc., must receive a passing grade.

**Grade**

A, B, C, D, E, Fx, F

**Limitations**

The course may not be included in a higher education degree together with the course GIT in land management, 7.5 HE credits.

**Other regulations**

Certificate of the course is only awarded after completed course and only upon request. In order to satisfactorily complete the course, the student is expected to input a workload corresponding to 5 weeks of full time studies.

**Sustainable environment**

A minor part of the course content deals with sustainable development.

**Module**

0010	Written examination	3 cr	Grade: AF
0020	Assignments, seminars	1.5 cr	Grade: AF
0030	Project	3 cr	Grade: AF