



## HÖGSKOLAN I GÄVLE

### Thematic and Web Cartography 5 cr

*Tematisk- och webkartografi 5 hp*

Set by Faculty of Engineering and Sustainable Development

#### Version

**Set at**

**Valid from**

8/22/16

**HT2017**

<b>Level</b>	G2F
<b>Education level</b>	First cycle
<b>Course identifier</b>	SBG622
<b>Credits</b>	5 cr
<b>Main field of study</b>	Geospatial Information Science, Geomatics, Geography
<b>Subject group</b>	Geographic Information Technology and Surveying
<b>Disciplinary domain</b>	Technology 100.0 %

#### Learning outcomes

After completion of the course the student shall be able to

1. demonstrate knowledge and skills in thematic cartography such as data processing, classification, visualization, and map design
2. produce different thematic maps or visualizations based on the aforementioned knowledge and skills
3. demonstrate good knowledge about web and mobile cartography such as Google maps, OpenStreetMap, and location-based services for mobile devices
4. evaluate and analyse the suitability of various cartographic formats for set purposes and audiences.

#### Course content

- Conceptualizations on cartographic visualization
- Data processing and classification
- Different classifications and visualizations for different types of geospatial data
- Cartographic semiology based on Bertin's theory and color schemes
- Multimedia, hypertext, hypermedia, and hypermaps
- Interactive, animated and mobile maps, and 3D visualization for planning support
- Web maps and mapping such as Google Maps and OpenStreetMap
- Mobile cartography and location-based services

<b>Teaching</b>	Lectures, practicals and own studies		
<b>Prerequisites</b>	A first-cycle qualification comprising at least 180 credits in relevant subject of the Master's programme in Geospatial information science, or a corresponding qualification from abroad.		
<b>Examination</b>	Assignments(practicals) and written examination		
<b>Grade</b>	A, B, C, D, E, Fx, F		
<b>Other regulations</b>	Degree criteria for final grade will be given by examiner or course responsible latest at the beginning of the course.		
<b>Sustainable environment</b>	Content with sustainable development is not relevant to this course.		
<b>Module</b>			
	0010	Assignments	2 cr      Grade: UG
	0020	Written examination	3 cr      Grade: AF