



HÖGSKOLAN I GÄVLE

Cartography 7.5 cr

Kartografi 7,5 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at

Valid from

11/3/16

VT2018

Level	G1N
Education level	First cycle
Course identifier	SBG091
Credits	7.5 cr
Main field of study	Spatial Planning, Geomatics, Geography, Surveying Technology
Subject group	Geographic Information Technology and Surveying
Disciplinary domain	Technology 100.0 %

Learning outcomes

After completion of the course the student shall be able to

1. account for basic cartographic concepts
2. account for the different survey areas of the municipal or state map companies in Sweden
3. describe thematic, large and small-scale maps
4. use one of the programs on the market in map construction
5. apply sector-specific recommendations in map construction
6. describe legal terms in cartographic contexts.

Course content

The history of cartography
Reference systems, map projections, plane and height coordinates
Data acquisition; digitalisation, scanning, geodesic measuring, remote sensing and photogrammetry
Map design and map construction; generalisation, colour theory, lettering, map symbols, symbols, layout, reproduction and print
Digital cartography; web-based maps, cartographic and geographic databases
Large and small-scale cartography
Thematic cartography
Cartographic law

Teaching	Lectures, exercises, laboratory sessions and project work		
Prerequisites	Ma 2a / 2b / 2c och Sh 1b / 1a1+1a2		
Examination	Written test, project work, laboratory sessions and assignments		
Grade	A, B, C, D, E, Fx, F		
Other regulations	Degree criteria for final grade will be given by examiner or course responsible latest at the beginning of the course.		
Sustainable environment	Content with sustainable development is not relevant to this course.		
Module			
	0010	Written examination	3 cr Grade: AF
	0020	Project work	3 cr Grade: AF
	0030	Laboratory sessions and assignments	1.5 cr Grade: UG