



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

| | |
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| 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

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|--------------------------------|--|-------------------------------------|-----------------------|
| 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 |