



HÖGSKOLAN I GÄVLE

Methods in Spatial Planning and Geography 7.5cr

Metoder för samhällsplanering och geografi 7,5hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at

Valid from

11/3/16

HT2017

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| Level | G1N |
| Education level | First cycle |
| Course identifier | SBG041 |
| Credits | 7.5cr |
| Main field of study | Spatial Planning, Geomatics, Geography |
| Subject group | Physical Planning |
| Disciplinary domain | Natural sciences 50.0% Technology 50.0% |

Learning outcomes

After completion of the course the student shall be able to

1. describe the character of spatial data
2. describe the assumptions and requirements of statistical tests and research methods
3. use appropriate qualitative and quantitative methods to collect, edit, format, and classify data
4. calculate descriptive, analytical and spatial statistics using appropriate software
5. present data in a scientific format
6. assess the results of scientific methods.

Course content

The nature of data
Data and file formats
Data classification and transformation
Descriptive statistics and data visualization
Probability, sampling and hypothesis testing
Analytical statistics
Geographic statistics
Qualitative and quantitative methods

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| Teaching | Lectures and practicals |
| Prerequisites | Matematik B och Samhällskunskap A eller Matematik 2a / 2b / 2c och Samhällskunskap 1b / 1a1+1a2 (Områdesbehörighet 5/A5) |
| Examination | Written examination 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 | A minor part of the course content deals with sustainable development. |
| Module | |
| | 0010 Written examination 4.5cr Grade: AF |
| | 0020 Assignments 3cr Grade: UG |