



DEPARTMENT OF ECONOMY AND SOCIETY

KGG135 Geographical Information Systems (GIS) 2 - Methods of spatial analysis, 7.5 credits

Geografiska informationssystem (GIS) 2 - Rumsliga analysmetoder, 7,5
högskolepoäng

First Cycle

Confirmation

This course syllabus was confirmed by Department of Economy and Society on 2020-01-15 and was last revised on 2023-11-08 to be valid from 2024-09-02, autumn semester of 2024.

Field of education: Social Sciences 100%

Department: Department of Economy and Society

Position in the educational system

The course is given as a freestanding course in Human geography at first cycle level.

The course can be part of the following programmes: 1) Program in Environmental Social Science (S1SML) and 2) Program in Environmental Social Science (S1SMI)

Main field of studies

Human and Economic Geography

Specialization

G1F, First cycle, has less than 60 credits in first-cycle course/s as entry requirements

Entry requirements

Entry to the course requires at least 52.5 credits human geography, geography or environmental science, of which at least 7.5 credits GIS.

Learning outcomes

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

Knowledge and understanding

1. explain different methods for geographic analysis and visualisation

Competence and skills

2. apply geographic analysis and visualisation by means of GIS software
3. independently be able to solve problems by means of GIS software

Judgement and approach

4. justify and evaluate different choices in the use of GIS software to apply different methods for geographic analysis and visualisation

The course is sustainability-related, which means that at least one of the learning outcomes clearly shows that the course content meets at least one of the University of Gothenburg's confirmed sustainability criteria.

Course content

This course consists of a number of computer-based exercises in GIS software. The exercises treat different methods for geographic analysis and visualisation. Each exercise is introduced through a lecture that treats the methods that are focused in the exercise.

At respective lecture, a specific problem that the student should solve independently is also presented by means of GIS software. The course is completed with a compulsory seminar where the course participants discuss one another's work.

Form of teaching

Lectures, literature studies, seminars, fellow student supervision and computer-based exercises. Peer tutorial implies that students in the course read and comment one another's works.

Language of instruction: Swedish

Assessment

Intended learning outcomes one, two and three are assessed through computer-based exercises.

Intended learning outcome four is assessed through computer-based exercises and active participation in a seminar.

The student who is not present at compulsory seminar or submitted written exercises in mandatory time must make supplementary assignments to pass the course. The right to supplement an exercise expires after current course instance.

If a student has failed the same examined element on two occasions and wishes to change examiner before the next examination session, such a request must be submitted to the department in writing, and it will be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In the case where a course has been discontinued or has undergone major changes, a student shall be guaranteed access to at least three examination sessions (including the regular examination session) during a period of at least one year, but at the most two years after the course has been discontinued/changed. In regards to internships/placements, the equivalent applies but limited to only one additional examination session.

Grades

The grading scale comprises: Excellent (A), Very good (B), Good (C), Satisfactory (D), Sufficient (E) and Fail (F).

To receive a Pass grade (A-E) in the course, active attendance at the seminar and a passed result in other assessing components is required. If a student has not participated actively at the seminar, the student needs to make a supplementary assignment for a Pass grade. The grade in the course as a whole is combined by the result in the assessing components and is put in relation to established grading scale.

Course evaluation

At the end of the course, a course evaluation is carried out. Evaluation results and any changes in the course structure should be communicated to both the students who completed the evaluation and to the students who will start the course.

Additional information

Of resource reason is supervision limited to the course instance the student started his studies. At re-registration, the right to supervision expires and the student must therefore work independently to completion remaining examination part.

In the course, a virtual learning platform for digital communication between teachers and course participants and between course participants is used. Therefore, access to a computer and internet is required.

The course may not be included in a degree together with the course KGG132.