

COURSE DETAIL

GEOGRAPHIC INFORMATION SYSTEMS

Country

Netherlands

Host Institution

Leiden University College

Program(s)

Leiden University College

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Geography Earth & Space Sciences

UCEAP Course Number

102

UCEAP Course Suffix**UCEAP Official Title**

GEOGRAPHIC INFORMATION SYSTEMS

UCEAP Transcript Title

GEO INFO SYSTEMS

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

Geographic information systems (GIS) are computer systems for the collection, storage, visualization, and display of geographically referenced information. A GIS can be used to ask and answer complex questions that have a spatial component. This course utilizes GIS to examine spatial data in relation to a range of environmental and socioeconomic issues. This course introduces GIS using a popular desktop package called ArcGIS 10.x. Students use this software and some additional programs, called 'extensions,' for vector and raster (grid-based) analysis. The course is problem-based. Students solve problems using the GIS and demonstrate their new knowledge through homework projects, practical exams, and a research project.

Language(s) of Instruction

English

Host Institution Course Number

8002GPH01Y

Host Institution Course Title

GEOGRAPHIC INFORMATION SYSTEMS

Host Institution Campus

Leiden University College, The Hague

Host Institution Faculty

Host Institution Degree

Host Institution Department

Earth, Energy & Sustainability

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