

# COURSE DETAIL

## INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

**Country**

Germany

**Host Institution**

Free University of Berlin

**Program(s)**

Free University Berlin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Earth & Space Sciences

**UCEAP Course Number**

107

**UCEAP Course Suffix****UCEAP Official Title**

INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

**UCEAP Transcript Title**

INTRO TO GIS

**UCEAP Quarter Units**

5.50

**UCEAP Semester Units**

3.70

## **Course Description**

This course provides students with the ability to independently process geoscientific questions using geographic information systems and to present results. Selected application examples are used to convey basic concepts of Geographic Information Systems and Geoinformation Processing. The following topics are covered: structure and applications of Geographic Information Systems; basic concepts such as data models, geospatial data collection, methods and problems of georeferencing; georeferencing, extraction, and processing of spatial data; spatial data methods and geostatistical analysis and interpolation techniques; creation and analysis of digital terrain models; visualization of geodata, including maps. Students also learn practical computer-aided implementation.

## **Language(s) of Instruction**

German

## **Host Institution Course Number**

24407a/b3

## **Host Institution Course Title**

INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

## **Host Institution Campus**

GEOWISSENSCHAFTEN

## **Host Institution Faculty**

## **Host Institution Degree**

## **Host Institution Department**

Geographie

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