

# COURSE DETAIL

## INTRODUCTION TO REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS (GIS)

**Country**

Ghana

**Host Institution**

University of Ghana, Legon

**Program(s)**

University of Ghana

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Geography

**UCEAP Course Number**

111

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

INTRODUCTION TO REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS (GIS)

**UCEAP Transcript Title**

GEOGRAPHIC INFO SYS

**UCEAP Quarter Units**

5.00

## **UCEAP Semester Units**

3.30

### **Course Description**

The course deals with photographic and scanner remote sensing; basic principles of remote sensing; electromagnetic spectrum; the multiband concept of imagery interpretation; photographic remote sensing and its application in urban and rural land use studies. It also reviews the definition and types of remote sensing; a historical review of the development of environmental remote sensing, the physical basis of remote sensing (the electromagnetic spectrum), aerial photographs, characteristics, types, flying for cover and types, scale, overlaps, stereo-vision, relief displacement; photo evaluation (photo reading, analysis and interpretation); principles of object recognition: shape, size, texture; project procedure (including library search, reconnaissance survey, fieldwork, analysis and recording); application in urban and rural inventories; and principles of Geographic Information Systems.

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

English

### **Host Institution Course Number**

GEOG 327

### **Host Institution Course Title**

INTRODUCTION TO REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS (GIS)

### **Host Institution Course Details**

[https://www.ug.edu.gh/sites/default/files/manual\\_uploads/Humanities%20Handbook%202019.pdf](https://www.ug.edu.gh/sites/default/files/manual_uploads/Humanities%20Handbook%202019.pdf)

### **Host Institution Campus**

University of Ghana

### **Host Institution Faculty**

Social Science

**Host Institution Degree**

**Host Institution Department**

Geography and Resource Development

**Course Last Reviewed**

2024-2025

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