

# COURSE DETAIL

## ECOLOGICAL AND ENVIRONMENTAL ANALYSIS

**Country**

United Kingdom - Scotland

**Host Institution**

University of Edinburgh

**Program(s)**

University of Edinburgh

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Environmental Studies Earth & Space Sciences

**UCEAP Course Number**

109

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

ECOLOGICAL AND ENVIRONMENTAL ANALYSIS

**UCEAP Transcript Title**

ECOL&ENVIRO ANALYS

**UCEAP Quarter Units**

8.00

**UCEAP Semester Units**

5.30

## Course Description

To understand the way that ecological and environmental systems function, we often look for associations and seek evidence of causality, or the pattern of interaction between components. We may ultimately seek to establish the nature of these relationships that we can make predictions for other systems or of future change. Reaching robust conclusions requires collection of sound data and proper statistical interpretation. This course equips students with an integrated knowledge of data collection and data analysis, for use in dissertation projects and careers beyond. This course considers the formulation of research questions and four broad themes: survey and sampling; relationships between variables; design, analysis, and interpretation of controlled experiments; and dynamic data and the principles of simulation modelling.

### Language(s) of Instruction

English

### Host Institution Course Number

ECSC08008

### Host Institution Course Title

ECOLOGICAL AND ENVIRONMENTAL ANALYSIS

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Ecological Science

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