

COURSE DETAIL

RESEARCH METHODS IN ECOLOGY

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

114

UCEAP Course Suffix**UCEAP Official Title**

RESEARCH METHODS IN ECOLOGY

UCEAP Transcript Title

RESEARCH METH/ECOL

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course consists of two parts: 1) experimental design and 2) data analysis. The experimental design part of the course largely follows a textbook ([Ruxton and Colegrave 2016](#)). The main theme of the data analysis part is the method of maximum likelihood although other approaches are also discussed. Computer simulations will be used to understand the concepts of various statistical methods, but no prior experience in programming is required. Although the course title contains the word *ecology*, this is a general course on experimental design and data analysis. Students of any fields (social science, political science, physical science, biological science, business, engineering, etc.) can take the course. No knowledge of ecology is required. On the other hand, students are expected to have the basic knowledge of statistics (e.g., one semester of an introductory statistics course).

Language(s) of Instruction

English

Host Institution Course Number

ENT5053

Host Institution Course Title

RESEARCH METHODS IN ECOLOGY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Entymology

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