

COURSE DETAIL

ECOLOGICAL DATA ANALYSIS IN R

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

159

UCEAP Course Suffix**UCEAP Official Title**

ECOLOGICAL DATA ANALYSIS IN R

UCEAP Transcript Title

ECOL DATA ANALYSIS

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course teaches the usage of R for the analysis of ecological data. It introduces several different analysis options for biological or ecological data (focusing specifically on community-level data) using the free and open-source statistical, mapping, and graphing platform R. Broad topics covered will include: introduction to R language and basic functions / graphics; basic mapping options; diversity measurement; univariate, multivariate, parametric and non-parametric analysis and their basis; functional diversity; and ecological time series analysis. Students will require a laptop for sessions. Schedule is subject to changes according to student progress.

Language(s) of Instruction

English

Host Institution Course Number

Ocean5098

Host Institution Course Title

ECOLOGICAL DATA ANALYSIS IN R

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Oceanography

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