

COURSE DETAIL

BIOLOGICAL OCEANOGRAPHY

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

151

UCEAP Course Suffix**UCEAP Official Title**

BIOLOGICAL OCEANOGRAPHY

UCEAP Transcript Title

BIOL OCEANOGRAPHY

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course is intended for students with knowledge of basic ecology. The focus is on oceanography, with investigation on interactive biological, chemical, and physical processes in the ocean. The discussions range from physical effects on the biology to biological effects on biogeochemical cycling; the spatial scale ranges from individual organisms (e.g. viscosity and turbulences on plankton feeding and nutrient uptake) to ecosystem (e.g. remote sensing and circulation modeling); the organism ranges from virus to whales. The objectives are to cover environmental effects such as ocean physics and chemistry affect organisms, across temporal and spacial scales. Further, the course explores how biological activities feedback to Earth environments, such as biogeochemical cycling and carbon flux and global climate changes.

Language(s) of Instruction

English

Host Institution Course Number

OCEAN5051

Host Institution Course Title

BIOLOGICAL OCEANOGRAPHY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Oceanography

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