

## COURSE DETAIL

### INTRODUCTION TO MARINE DISSOLVED ORGANIC MATTER (MDOM)

**Country**

Taiwan

**Host Institution**

National Taiwan University

**Program(s)**

National Taiwan University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

121

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

INTRODUCTION TO MARINE DISSOLVED ORGANIC MATTER (MDOM)

**UCEAP Transcript Title**

INTRO MARINE MDOM

**UCEAP Quarter Units**

3.00

**UCEAP Semester Units**

2.00

## Course Description

Understanding the processes involved in the transformation of carbon, phosphorus, nitrogen, and other major elements in the oceans has been a major interest of oceanographers over the past decade. Marine dissolved organic matter (DOM) plays a vital role in regulating global patterns and cycling of the major elements of seawater. There are a number of biochemical, photochemical and physical transformations that marine DOM can be influenced by, including DOM production, diagenesis and re-mineralization, as well as interactions with trace metals and microbes. Additionally, marine DOM plays important roles at environmental interfaces such as those between land and sea, sediment and water, particle and bulk solution. This course covers both well-established and recently developed concepts on marine DOM relevant to future marine scientists, in particular, those in the fields of chemistry, biogeochemistry and ecology.

### Language(s) of Instruction

English

### Host Institution Course Number

Ocean5047

### Host Institution Course Title

INTRODUCTION TO MARINE DISSOLVED ORGANIC MATTER (MDOM)

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

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