

# COURSE DETAIL

## FLUID MECHANICS II

**Country**

Taiwan

**Host Institution**

National Taiwan University

**Program(s)**

National Taiwan University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

110

**UCEAP Course Suffix**

B

**UCEAP Official Title**

FLUID MECHANICS II

**UCEAP Transcript Title**

FLUID MECHANICS II

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

### **Course Description**

This course is a continuation and extension both in materials and depth of Fluid Mechanics I, which is a fundamental and required course of the Department of Mechanical Engineering. This course provides students with a clear picture and explanation of flow phenomena but also enhance their capability of analysis of engineering problems. This course covers the following topics: Kinematics of Fluids; Governing Equations; Elements of Ideal-Fluid Flow; Viscous Flow Theory; Elements of Turbulent Flow; Steady One-Dimensional Compressible Flow, and Oblique shock and Expansion Waves.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

ME3903

### **Host Institution Course Title**

FLUID MECHANICS (II)

### **Host Institution Course Details**

[https://nol.ntu.edu.tw/nol/coursesearch/print\\_table.php?course\\_id=502%2031020&c...](https://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=502%2031020&c...)

### **Host Institution Campus**

### **Host Institution Faculty**

College of Engineering

### **Host Institution Degree**

### **Host Institution Department**

Department of Mechanical Engineering

### **Course Last Reviewed**

2024-2025

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