

## COURSE DETAIL

### FLUID MECHANICS (MECHANICAL) 4

**Country**

United Kingdom - Scotland

**Host Institution**

University of Edinburgh

**Program(s)**

University of Edinburgh

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

121

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

FLUID MECHANICS (MECHANICAL) 4

**UCEAP Transcript Title**

FLUID MECHANICS 4

**UCEAP Quarter Units**

4.00

**UCEAP Semester Units**

2.70

## Course Description

A general form of the Navier-Stokes equation is derived with a focus on the physical interpretation of the mathematical model. This equation is used to derive simplified models for bi-dimensional incompressible flows, including potential flow and boundary layer flow. The fundamentals of turbulent flow, including basic turbulent statistics, are presented.

### Language(s) of Instruction

English

### Host Institution Course Number

MECE10004

### Host Institution Course Title

FLUID MECHANICS (MECHANICAL) 4

### Host Institution Course Details

<http://www.drps.ed.ac.uk/25-26/dpt/cxmece10004.htm>

### Host Institution Campus

### Host Institution Faculty

School of Engineering

### Host Institution Degree

### Host Institution Department

### Course Last Reviewed

2025-2026

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