

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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