

COURSE DETAIL

FLUID MECHANICS

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

106

UCEAP Course Suffix**UCEAP Official Title**

FLUID MECHANICS

UCEAP Transcript Title

FLUID MECHANICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces students to the basic concepts of fluid mechanics. Starting with fluid properties and fluid statics, students' progress to the conservation laws which allows them to analyze various fluid problems encountered in engineering practice. The second half of the course introduces students to basic fluid flow concepts. Students learn how to apply the prior concepts and laws to pipe flows, hydraulic machinery and pipe networks. At the end students should be able to estimate frictional losses for flows in pipelines, design pumping systems and apply the obtained knowledge to other engineering applications.

Language(s) of Instruction

English

Host Institution Course Number

CE2134

Host Institution Course Title

FLUID MECHANICS

Host Institution Course Details

<https://nusmods.com/courses/CE2134/fluid-mechanics>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Civil & Environmental Engineering

Course Last Reviewed

2025-2026

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