

COURSE DETAIL

FLUID MECHANICS FOR ENGINEERS

Country

Australia

Host Institution

University of New South Wales

Program(s)

University of New South Wales

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Engineering

UCEAP Course Number

116

UCEAP Course Suffix**UCEAP Official Title**

FLUID MECHANICS FOR ENGINEERS

UCEAP Transcript Title

FLUID MECH FOR ENG

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines the principles of fluid mechanics. Topics discussed include fluid properties; hydrostatics; buoyancy; pressures in fluid systems; principles of mass conservation; steady flow energy equations; flow measurement; forces and momentum in flowing fluids; dimensional analysis, similarity and physical modelling; pipe flow; incompressible laminar and turbulent flow in pipes; friction factor; elementary boundary layer flow; skin friction and drag; pumps and turbines; and pump and pipeline system characteristics.

Language(s) of Instruction

English

Host Institution Course Number

ENGG2500

Host Institution Course Title

FLUID MECHANICS FOR ENGINEERS

Host Institution Campus

Host Institution Faculty

School of Civil and Environmental Engineering

Host Institution Degree

Host Institution Department

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