

# 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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