

COURSE DETAIL

FLUID MECHANICS

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

144

UCEAP Course Suffix**UCEAP Official Title**

FLUID MECHANICS

UCEAP Transcript Title

FLUID MCHNCS ENERGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course studies various flow phenomena of both fundamental and technical importance. Students acquire knowledge about classical and modern techniques for the study and analysis of technical fluid mechanical problems. Part A examines the history and scope of fluid mechanics, integral relations for a control volume, differential relations for a fluid particle, viscous flow in ducts, introduction to turbulence, boundary-layer flows, and flow around slender and bluff bodies. Part B studies incompressible inviscid flow, aerodynamic theory, compressible flow, and open-channel flow.

Language(s) of Instruction

English

Host Institution Course Number

MMVF10

Host Institution Course Title

FLUID MECHANICS

Host Institution Campus

Engineering

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Engineering - Energy Sciences

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