

COURSE DETAIL

THERMOFLUIDS 1

Country

South Africa

Host Institution

University of Cape Town

Program(s)

University of Cape Town

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

106

UCEAP Course Suffix**UCEAP Official Title**

THERMOFLUIDS 1

UCEAP Transcript Title

THERMOFLUIDS 1

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course introduces students to the fundamentals of thermodynamic and fluid mechanic sciences in an integrated manner. Students examine fundamental concepts and definitions, as well as fluid properties and their relationships. Students also learn about the fundamental heat transfer mechanisms and become familiar with the 4 basic conservation laws. Students apply these to selected continuity problems, closed system problems, entropy problems as well as fluid statics and momentum problems, to familiarize themselves with the presented concepts and further their problem solving skills.

Language(s) of Instruction

English

Host Institution Course Number

MEC2050S

Host Institution Course Title

THERMOFLUIDS 1

Host Institution Campus

Engineering

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mechanical Engineering

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