

# 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 Course Details****Host Institution Campus**

Engineering

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

Mechanical Engineering

**Course Last Reviewed**

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