

# COURSE DETAIL

## THERMODYNAMICS

**Country**

Korea, South

**Host Institution**

Yonsei University

**Program(s)**

Yonsei University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering

**UCEAP Course Number**

110

**UCEAP Course Suffix****UCEAP Official Title**

THERMODYNAMICS

**UCEAP Transcript Title**

THERMODYNAMICS

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course introduces key topics on i) thermodynamic states and properties, ii) thermodynamic systems and their applications, iii) the 1st and 2nd law of thermodynamics, iv) power systems, and v) refrigeration systems. It covers energy conservation, reversible and irreversible processes, and thermodynamic efficiencies. Students learn how to design, analyze, and improve thermodynamic systems based on key principles which are introduced in this course.

### Language(s) of Instruction

English

### Host Institution Course Number

MEU2610

### Host Institution Course Title

THERMODYNAMICS

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Mechanical Engineering

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