

# COURSE DETAIL

## ZERO ENERGY COMMUNITY

**Country**

Korea, South

**Host Institution**

Korea University

**Program(s)**

Korea University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Civil Engineering

**UCEAP Course Number**

108

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

ZERO ENERGY COMMUNITY

**UCEAP Transcript Title**

ZERO ENRGY COMMUNTY

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course provides the foundation for three key components of zero energy communities: buildings, mechanical systems, and renewable energy systems. The course covers fundamental topics in building physics such as psychrometrics, solar geometry, and heat transfer in buildings, which is the foundation for designing passive buildings. It also examines energy efficient mechanical systems and renewable energy systems, which is essential for the design of zero-energy communities.

## Language(s) of Instruction

English

## Host Institution Course Number

ACEE335

## Host Institution Course Title

ZERO ENERGY COMMUNITY

## Host Institution Course Details

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Civil, Environmental and Architectural Engineering

## Course Last Reviewed

2022-2023

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