

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 COMMUNITY

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 Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Civil, Environmental and Architectural Engineering

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