

# COURSE DETAIL

## HYDROSYSTEMS ENGINEERING

**Country**

Korea, South

**Host Institution**

Yonsei University

**Program(s)**

Yonsei University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering

**UCEAP Course Number**

101

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

HYDROSYSTEMS ENGINEERING

**UCEAP Transcript Title**

HYDROSYSTEM ENGINE

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## **Course Description**

This course introduces the hydrologic cycle and relevant atmospheric processes: water and energy balance, radiation, precipitation, snow, infiltration, evaporation, transpiration, groundwater flow, streamflow, and flood processes. In addition, AI applications in hydrologic processes are covered. Topics include The Hydrologic Cycle, Atmospheric Water, Runoff and Streamflow, Groundwater, and Soil Water.

Prerequisite: ELEMENTARY FLUID MECHANICS

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

CEE3412

### **Host Institution Course Title**

HYDROSYSTEMS ENGINEERING

### **Host Institution Course Details**

#### **Host Institution Campus**

#### **Host Institution Faculty**

#### **Host Institution Degree**

#### **Host Institution Department**

#### **Course Last Reviewed**

2024-2025

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