

# COURSE DETAIL

## SOFTWARE SECURITY

**Country**

Korea, South

**Host Institution**

Korea University

**Program(s)**

Korea University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

108

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

SOFTWARE SECURITY

**UCEAP Transcript Title**

SOFTWARE SECURITY

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

90% of security incidents exploit software vulnerabilities. This course studies principles and mechanisms for improving software security. It discusses various attack techniques; how to defend against them; and more importantly, how to develop software with less vulnerabilities in advance.

The course covers topics such as security principles, buffer overflow, race condition attacks and security development lifecycles (SDL), security by design. Operating systems and computer network courses are recommended before taking this course.

### Language(s) of Instruction

English

### Host Institution Course Number

COSE451

### Host Institution Course Title

SOFTWARE SECURITY

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Computer Science and Engineering

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