

COURSE DETAIL

COMPUTER SECURITY

Country

Korea, South

Host Institution

Yonsei University

Program(s)

Yonsei University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

111

UCEAP Course Suffix**UCEAP Official Title**

COMPUTER SECURITY

UCEAP Transcript Title

COMPUTER SECURITY

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course provides an overview of computer systems security. Students build a comprehensive understanding of central problems in software and hardware security and solutions to them.

Topics include the basic concepts of threats and security, access control, authentication, cryptography, and low-level software and hardware security. In addition to the principles and theories presented in the class, students are able to develop practical skills by completing six programming assignments along the way. Students perform threat modeling and security analysis of existing computer systems, write attack payloads that compromise insecure programs, and develop defensive programming skills and be able to use existing defensive mechanisms.

Prerequisite: Operating Systems; Computer Architecture

Language(s) of Instruction

English

Host Institution Course Number

CAS4109

Host Institution Course Title

COMPUTER SECURITY

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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