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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