

COURSE DETAIL

ARCHITECTURE OF COMPUTERS

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

116

UCEAP Course Suffix**UCEAP Official Title**

ARCHITECTURE OF COMPUTERS

UCEAP Transcript Title

ARCHITECTURE OF COM

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course explores the fundamental structure and design principles of computer systems. It covers key topics such as computer abstraction and technology, instruction set architecture, arithmetic for computers, processor design, memory hierarchy, and parallel processing. Special emphasis is placed on understanding modern computer architecture trends, high-performance computing, and AI accelerators. By the end of this course, students gain a deep understanding of the interaction between hardware and software and develop essential skills for performance optimization.

Language(s) of Instruction

English

Host Institution Course Number

CAS3102

Host Institution Course Title

ARCHITECTURE OF COMPUTERS

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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