

COURSE DETAIL

ALGORITHM ANALYSIS

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

110

UCEAP Course Suffix**UCEAP Official Title**

ALGORITHM ANALYSIS

UCEAP Transcript Title

ALGORITHM ANALYSIS

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

An algorithm is a well-defined mechanical procedure that solves a computational problem (Cormen et al., 1990). This course introduces students to elementary algorithm design techniques including divide and conquer, dynamic programming, greedy algorithms, and network flow, together with the mathematical proof techniques used to establish the correctness of algorithms. The course also covers NP-completeness. Textbook: J. Kleinberg and E. Tardos, ALGORITHM DESIGN. Prerequisites: Data Structure, DISCRETE MATHEMATICS

Language(s) of Instruction

English

Host Institution Course Number

CSI3108

Host Institution Course Title

ALGORITHM ANALYSIS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science

Course Last Reviewed

2024-2025

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