

COURSE DETAIL

PROGRAM ANALYSIS

Country

United Kingdom - England

Host Institution

University of Sussex

Program(s)

University of Sussex

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

103

UCEAP Course Suffix**UCEAP Official Title**

PROGRAM ANALYSIS

UCEAP Transcript Title

PROGRAM ANALYSIS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces the design and analysis of algorithms. Students examine topics including the use of big-O notation to characterize an algorithm's running time, invariants as a way of specifying how an algorithm solves a problem, and alternative approaches to the design of algorithms for different kinds of problems, such as including divideandconquer, greedy methods, and dynamic programming. Students use a range of illustrative problems, such as sorting, string-matching, and several standard graph algorithms.

Language(s) of Instruction

English

Host Institution Course Number

G6017

Host Institution Course Title

PROGRAM ANALYSIS

Host Institution Campus

University of Sussex

Host Institution Faculty

Host Institution Degree

Host Institution Department

Informatics

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