

# 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 Course Details****Host Institution Campus**

University of Sussex

**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Informatics

**Course Last Reviewed**

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