

COURSE DETAIL

PROGRAMMING CONCEPTS

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

122

UCEAP Course Suffix**UCEAP Official Title**

PROGRAMMING CONCEPTS

UCEAP Transcript Title

PROGRAMNG CONCEPTS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides an introduction to algorithmic problem solving with a focus on algorithmic thinking, not coding. Searching, sorting and other simple (and intuitive) algorithms are specified and developed. Principles like divide-and-conquer and recursive programming are also explored. To establish correctness, some relevant (propositional and predicate) logic is introduced in an informal style (focusing on logical reasoning principles rather than logical calculi). Finally, the concept of time complexity of an algorithm is presented and asymptotic complexity classes are discussed.

Language(s) of Instruction

English

Host Institution Course Number

G6007

Host Institution Course Title

PROGRAMMING CONCEPTS

Host Institution Campus

University of Sussex

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computing

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