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 Course Details
https://www.sussex.ac.uk/study/international-students/visiting-exchange-erasmus...

Host Institution Campus
University of Sussex

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computing

Course Last Reviewed
2018-2019

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