COURSE DETAIL

COMPUTER SCIENCE 1015
Country South Africa
Host Institution University of Cape Town
Program(s) University of Cape Town
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 30
UCEAP Course Suffix
UCEAP Official Title COMPUTER SCIENCE 1015
UCEAP Transcript Title COMPUTER SCIENCE
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course is an introduction to problem-solving, algorithm development, and programming in the Python language. It includes fundamental programming constructs and abstractions, sorting and searching techniques, and machine representations of data. The practical component covers input/output, conditionals, loops, strings, functions, arrays, lists, dictionaries, recursion, text files, and exceptions in Python. Students are taught testing and debugging, as well as sorting and searching algorithms, algorithm complexity, and equivalence classes. Number systems, binary arithmetic, Boolean algebra, and logic gates are also introduced. The course is offered in a blended learning format.

Language(s) of Instruction
English

Host Institution Course Number
CSC1015F,CSC1015S

Host Institution Course Title
COMPUTER SCIENCE 1015

Host Institution Course Details
https://www.uct.ac.za/sites/default/files/media/documents/uct_ac_za/49/SCI_Hand...

Host Institution Campus
University of Cape Town

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department
Computer Science

Course Last Reviewed

2023-2024

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