

COURSE DETAIL

COMPUTER FUNDAMENTALS AND PROGRAMMING

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Bioengineering

UCEAP Course Number

103

UCEAP Course Suffix**UCEAP Official Title**

COMPUTER FUNDAMENTALS AND PROGRAMMING

UCEAP Transcript Title

COMP FUNDMT & PROGM

UCEAP Quarter Units

10.00

UCEAP Semester Units

6.70

Course Description

This course instils the principles of digital logic design and computer fundamentals. It provides a basis for students to understand what happens inside digital computers and how they communicate with the real world. It illustrates how both digital computers and complex medical instrumentation are built up from simple logic circuit elements. It relates logic and digital systems to the fundamentals of computer programming. Lastly, it provides the basic skills of programming in the ANSI C language and Matlab to convey a sense of the professionalism required of programmers in order to write reliable C code for safety-critical applications, such as medicine.

Language(s) of Instruction

English

Host Institution Course Number

BIOE40002

Host Institution Course Title

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Host Institution Course Details

<https://www.imperial.ac.uk/study/courses/undergraduate/biomedical-engineering/>

Host Institution Campus

South Kensington

Host Institution Faculty

Host Institution Degree

Host Institution Department

Bioengineering

Course Last Reviewed

2023-2024

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