COURSE DETAIL

COMPUTER SIMULATION
Country United Kingdom - Scotland
Host Institution University of Edinburgh
Program(s) University of Edinburgh
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics Computer Science
UCEAP Course Number 125
UCEAP Course Suffix
UCEAP Official Title COMPUTER SIMULATION
UCEAP Transcript Title COMPUTER SIMULATION
UCEAP Quarter Units 8.00
UCEAP Semester Units 5.30

Course Description
This course covers methods for solving scientific problems using computers. It provides a training in the computational modeling of scientific problems and their representation using computer graphics. It also provides a grounding in object-oriented programming through the practical application of the Python programming language. Students carry out extensive practical and project work. The course also covers key concepts of object oriented programming; analysis of problem statements to produce simple object oriented designs; object oriented programming using Python; use of packages for scientific programming and visualization in Python; and writing simple graphical applications in Python to visualize experimental results.

Language(s) of Instruction
English

Host Institution Course Number
PHYS08026

Host Institution Course Title
COMPUTER SIMULATION

Host Institution Course Details

Host Institution Campus
Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department
Physics and Astronomy

Course Last Reviewed

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