

COURSE DETAIL

THE FUNDAMENTALS OF COMPUTER PROGRAMMING (PYTHON)

Country

China

Host Institution

Tsinghua University

Program(s)

Tsinghua University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

182

UCEAP Course Suffix**UCEAP Official Title**

THE FUNDAMENTALS OF COMPUTER PROGRAMMING (PYTHON)

UCEAP Transcript Title

COMP PROGR PYTHON

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course, as one of key cornerstones of computer programming, based on Python language, focuses on concepts, methodologies and thinking pattern of computer programming. The main objective of the course is to help students to master basic programming skills, and to promote their abilities of logical, systematical and abstract thinking. The course mainly involves the basic concepts of computer programming, the basis of Python language and Python program structures, mathematical and numerical calculations, string and file operations, lists and data manipulation, functions and recursive functions, branch structures and loop structures, programming methodologies, procedure-oriented programming and object-oriented programming, graphical user interface programming methods and algorithm design, etc.

Language(s) of Instruction

Chinese

Host Institution Course Number

00740282

Host Institution Course Title

THE FUNDAMENTALS OF COMPUTER PROGRAMMING (PYTHON)

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

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