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 Course Details
https://webvpn.tsinghua.edu.cn/http/77726476706e6973746865626573742 1eaff4b8b693...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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