

# COURSE DETAIL

## COMPUTER PRINCIPLES AND PYTHON PROGRAMMING

**Country**

Hong Kong

**Host Institution**

Chinese University of Hong Kong

**Program(s)**

Chinese University of Hong Kong

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

51

**UCEAP Course Suffix****UCEAP Official Title**

COMPUTER PRINCIPLES AND PYTHON PROGRAMMING

**UCEAP Transcript Title**

COMP PRINC & PYTHON

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course introduces computer programming in Python. Students learn modern programming concepts, problem solving and creation of computer applications using the Python programming language. Topics include basic Python language syntax, control flow, functions, lambda expressions, Python's common data structures, list comprehensions, file I/O and operating system interface, object-oriented programming, functional programming, and basic usage of common data science packages such as NumPy and Pandas.

## Language(s) of Instruction

English

## Host Institution Course Number

CSCI1550

## Host Institution Course Title

COMPUTER PRINCIPLES AND PYTHON PROGRAMMING

## Host Institution Course Details

[https://rgsntl.rgs.cuhk.edu.hk/ags\\_prd\\_applx/Public/tt\\_dsp\\_crse\\_catalog.aspx](https://rgsntl.rgs.cuhk.edu.hk/ags_prd_applx/Public/tt_dsp_crse_catalog.aspx)

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Computer Science

## Course Last Reviewed

2025-2026

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