

## COURSE DETAIL

### PYTHON COMPUTER PROGRAMMING

**Country**

Taiwan

**Host Institution**

National Taiwan University

**Program(s)**

National Taiwan University

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

15

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

PYTHON COMPUTER PROGRAMMING

**UCEAP Transcript Title**

PYTHON COMP PROGRAM

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course provides a comprehensive introduction to Python programming, focusing on fundamental concepts and techniques. It is designed for beginners and covers key topics such as data types, variables, control structures, functions, and file handling. The course exposes students to libraries like NumPy for numerical computations and Matplotlib for data visualization. Through hands-on exercises and projects, students will develop problem-solving skills; explore foundational elements of object-oriented programming, and learn to create reusable, efficient Python code. By the end of the course, students will have the skills to write clear, efficient, and reusable Python code as well as a strong foundation for further study in programming.

### Language(s) of Instruction

English

### Host Institution Course Number

GUPS1001

### Host Institution Course Title

PYTHON COMPUTER PROGRAMMING

### Host Institution Campus

### Host Institution Faculty

Common General Education Center

### Host Institution Degree

Global Undergraduate Program in Semiconductors

### Host Institution Department

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