

# COURSE DETAIL

## FOUNDATION OF PROGRAMMING

**Country**

Japan

**Host Institution**

International Christian University

**Program(s)**

International Christian University

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

30

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

FOUNDATION OF PROGRAMMING

**UCEAP Transcript Title**

FOUNDATN PROGRAMING

**UCEAP Quarter Units**

4.00

**UCEAP Semester Units**

2.70

## Course Description

This course introduces the basic concepts of computer programming and problem-solving using Python, analyzing and developing algorithms as well as developing programs, debugging, and testing of various problems.

The course covers the principles and main topics of Python including variables, conditional branches, loops, functions, lists, dictionaries, recursion, file input/output, and the introduction of object-oriented programming. The course also provides opportunities to solve problems such as numerical simulations, combinatorial problems, and image processing.

## Language(s) of Instruction

English

## Host Institution Course Number

ISC104E

## Host Institution Course Title

FOUNDATION OF PROGRAMMING

## Host Institution Course Details

<https://campus.icu.ac.jp/public/ehandbook/PreviewSyllabus.aspx?regno=21226&year...>

## Host Institution Campus

International Christian University

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Information Science

## Course Last Reviewed

2024-2025

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