

# COURSE DETAIL

## COMPILER CONSTRUCTION

**Country**

Japan

**Host Institution**

Keio University

**Program(s)**

Keio University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

139

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

COMPILER CONSTRUCTION

**UCEAP Transcript Title**

COMPILER CONSTRUCTN

**UCEAP Quarter Units**

3.00

**UCEAP Semester Units**

2.00

## Course Description

Programs written in programming languages such as C or Java are translated into assembly language or machine language programs by a special software called a compiler. This course explains the basic concepts and formalization of programming languages, explaining how the programs we usually write are executed inside a computer and how the compiler is configured for that purpose. Compilers can generally be divided into two parts: a front end and a back end. This course focuses on the front end, which comprises of three parts: lexical analysis, syntactic analysis, and semantic analysis.

### Language(s) of Instruction

Japanese

### Host Institution Course Number

N/A

### Host Institution Course Title

COMPILER CONSTRUCTION

### Host Institution Campus

Keio University

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Information and Computer Science

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