

## COURSE DETAIL

### GENERAL BIOCHEMISTRY

**Country**

Japan

**Host Institution**

Tohoku University

**Program(s)**

Engineering and Science

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biochemistry

**UCEAP Course Number**

110

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

GENERAL BIOCHEMISTRY

**UCEAP Transcript Title**

GENL BIOCHEMISTRY

**UCEAP Quarter Units**

3.00

**UCEAP Semester Units**

2.00

## Course Description

To study the basic knowledge of molecular biology, biochemistry and structural biology and to understand biological phenomena at the molecular level, students will learn the following contents.

- 1) Structures and chemical properties of nucleic acids
- 2) Structures and chemical properties of amino acids and proteins
- 3) Biochemical methods for analyzing DNA sequence, amino acid sequence, protein structures and functions
- 4) Mechanisms of enzyme catalysis

This course aims to provide students with deep insights into the structures and physiological functions of nucleic acids, proteins and other important biomolecules. Also, students will understand molecular mechanisms of several important enzymes.

### Language(s) of Instruction

English

### Host Institution Course Number

N/A

### Host Institution Course Title

GENERAL BIOCHEMISTRY

### Host Institution Campus

Tohoku University

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Science

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