

## COURSE DETAIL

### CELL BIOTECHNOLOGY

**Country**

Korea, South

**Host Institution**

Seoul National University

**Program(s)**

Seoul National University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences Bioengineering

**UCEAP Course Number**

149

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

CELL BIOTECHNOLOGY

**UCEAP Transcript Title**

CELL BIOTECHNOLOGY

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course provides an overview of cellular components, including their structure, function, and mechanism. Based on the knowledge of cell biology, the course looks at technologies used for cell culture, stem cell research, cancer research, and tissue engineering. The course also deals with the medical and industrial applications of cells. It provides a study of mammalian physiology and the engineering aspects of different physiological systems, focusing on a number of organ systems that may include cardiovascular, respiratory, and renal. Engineering principles that include biomechanical, bioelectrical, and biofluids are applied to physiological systems.

### Language(s) of Instruction

English

### Host Institution Course Number

M0000.006400

### Host Institution Course Title

CELL BIOTECHNOLOGY

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Chemical and Biological Engineering

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