

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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