

COURSE DETAIL

BIOMEDICAL MATERIALS PROCESSING(

Country

Korea, South

Host Institution

Korea University

Program(s)

Korea University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

146

UCEAP Course Suffix**UCEAP Official Title**

BIOMEDICAL MATERIALS PROCESSING(

UCEAP Transcript Title

BIOMED MTRIALS PROC

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course covers materials processing for manufacturing biomaterials, including traditional manufacturing techniques and 3D printing techniques. Students explore how we can produce biomedical materials, implants, and devices using a variety of manufacturing techniques.

Topics include Introduction to materials processing for biomedical applications, Synthesis of starting materials (ceramics and metals), Polymers as a drug delivery system, CAD/CAM process, Metal casting and surface modifications, Colloidal processes, Processes for porous scaffolds, 3D printing applications.

Language(s) of Instruction

English

Host Institution Course Number

BMED330

Host Institution Course Title

BIOMEDICAL MATERIALS PROCESSING(

Host Institution Course Details

<https://sugang.korea.ac.kr/>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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