

# COURSE DETAIL

## BIONIC HUMAN AND THE FUTURE OF BEING HUMAN

**Country**

Hong Kong

**Host Institution**

Chinese University of Hong Kong

**Program(s)**

Chinese University of Hong Kong

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Engineering

**UCEAP Course Number**

38

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

BIONIC HUMAN AND THE FUTURE OF BEING HUMAN

**UCEAP Transcript Title**

BIONIC HUMAN FUTURE

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course exposes students to a range of state-of-the-art developments in biomedical engineering. It invites students from various disciplines to discuss the long-term societal impacts and ethical implications of these technological advances, particularly in human enhancements beyond therapy. The course starts by illustrating the many amazing designs in the human body and yet how vulnerable it is in terms of injuries, diseases and ageing. Examples on how modern biomedical engineering helps us face our human conditions are given, such as musculoskeletal prosthetics and orthotics, cardiovascular implants, neuro-engineering, stem cells and regenerative medicine, gene editing, bio-nanotechnology, intelligence and artificial intelligence, and senses and artificial senses. A historical account of human quest for “living” machine, including a brief coverage of modern movies on bionic human then follows. The course wraps up with some social, ethical and philosophical reflections on the above issues and on the meaning of being human, opening up questions concerning the perennial human quest of becoming super human.

### Language(s) of Instruction

English

### Host Institution Course Number

BMEG 1217,UGEB1217

### Host Institution Course Title

BIONIC HUMAN AND THE FUTURE OF BEING HUMAN

### Host Institution Course Details

[https://rgsntl.rgs.cuhk.edu.hk/aqs\\_prd\\_applx/Public/tt\\_dsp\\_crse\\_catalog.aspx](https://rgsntl.rgs.cuhk.edu.hk/aqs_prd_applx/Public/tt_dsp_crse_catalog.aspx)

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

**Host Institution Department**

Biomedical Engineering

**Course Last Reviewed**

2025-2026

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