

# COURSE DETAIL

## BIOMECHANICS

**Country**

United Kingdom - England

**Host Institution**

Imperial College London

**Program(s)**

Imperial College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Bioengineering

**UCEAP Course Number**

121

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

BIOMECHANICS

**UCEAP Transcript Title**

BIOMECHANICS

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course examines kinematics and kinetics of human locomotion, bone, and soft tissue failure, macro- and micro-circulatory mechanics in various organs, and practical approaches to quantifying biomechanics. It describes how mechanics plays a role in basic physiological processes in the human body, as well as employing kinematic and kinetic principles to describe human locomotion. The course explores failure mechanisms of bone, as well as the differences between macro and microcirculatory flows. Students examine mass and fluid transport mechanisms in physiology.

## Language(s) of Instruction

English

## Host Institution Course Number

BIOE60014

## Host Institution Course Title

BIOMECHANICS

## Host Institution Campus

Imperial College London

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Bioengineering

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