

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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