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 Course Details
https://acrobat.adobe.com/link/review?uri=urn%3Aaaid%3Ascds%3AUS%3A58b6bb87-b95...

Host Institution Campus
Imperial College London

Host Institution Faculty

Host Institution Degree

Host Institution Department
Bioengineering

Course Last Reviewed
2023-2024

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