

COURSE DETAIL

TISSUE ENGINEERING AND REGENERATIVE MEDICINE

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

153

UCEAP Course Suffix**UCEAP Official Title**

TISSUE ENGINEERING AND REGENERATIVE MEDICINE

UCEAP Transcript Title

TISSUE ENGINEERING

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course introduces students to the fundamental concepts of normal tissue development and how researchers have used this information to imitate nature in a lab setting, engineering cells and tissues that may be used to model diseases, treat disease, or develop drugs. Discussion topics include: societal challenges for tissue engineering, cell building blocks, normal tissue development and regeneration, adult stem cells, induced pluripotent stem cells, challenges in imitating nature, cell and tissue therapy, gene therapy, and drug development.

Language(s) of Instruction

English

Host Institution Course Number

BIOE60013

Host Institution Course Title

TISSUE ENGINEERING AND REGENERATIVE MEDICINE

Host Institution Campus

Host Institution Faculty

Engineering

Host Institution Degree

Host Institution Department

Bioengineering

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