

COURSE DETAIL

FUNDAMENTALS OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Bioengineering

UCEAP Course Number

114

UCEAP Course Suffix

E

UCEAP Official Title

FUNDAMENTALS OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE

UCEAP Transcript Title

TISSUE ENG®EN MD

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course offers an overview of tissue engineering in clinical medicine and biomedical research and examines the role of emerging technologies and engineering and life science disciplines in tissue engineering. Topics include: dynamic and structural interactions between mesenchyme and parenchyme, the role of the tissue microenvironment, stem cells, gene and cell-based therapies. Practical sessions at the bioengineering laboratories are also included. Students are expected to have completed coursework in cell and molecular biology and biochemistry.

Language(s) of Instruction

English

Host Institution Course Number

15555

Host Institution Course Title

FUNDAMENTALS OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE

Host Institution Campus

Escuela Politécnica Superior. (Leganés)

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Bioingeniería e Ingeniería Aeroespacial

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