

COURSE DETAIL

MATERIALS FOR BIOINTERFACES

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Materials Science Bioengineering

UCEAP Course Number

120

UCEAP Course Suffix**UCEAP Official Title**

MATERIALS FOR BIOINTERFACES

UCEAP Transcript Title

MAT/BIOINTERFACES

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides an introduction to the interdisciplinary nature of biomedical materials; biology, chemistry, and materials science and engineering. Classes and properties of materials used in medicine and dentistry. Biological and biochemical properties of proteins, cells and tissues. Biocompatibility and host reactions to biomedical implant materials, testing of biomedical materials and degradation of biomedical materials will be covered. We will also look into the past, present and future applications of materials in medicine and dentistry.

Language(s) of Instruction

English

Host Institution Course Number

MLE3202

Host Institution Course Title

MATERIALS FOR BIOINTERFACES

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

Material Science and Engineering

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