

## 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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