

## COURSE DETAIL

### ELECTROCERAMICS

**Country**

United Kingdom - England

**Host Institution**

Imperial College London

**Program(s)**

Imperial College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Materials Science

**UCEAP Course Number**

176

**UCEAP Course Suffix****UCEAP Official Title**

ELECTROCERAMICS

**UCEAP Transcript Title**

ELECTROCERAMICS

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course gives students an understanding of the fundamental science governing the electronic and ionic conductivity of metal oxides and to then use this knowledge to describe the operation of devices based on these properties, such as gas sensors, fuel cells, batteries, varistors, and PTCRs.

### Language(s) of Instruction

English

### Host Institution Course Number

MATE70017

### Host Institution Course Title

ELECTROCERAMICS

### Host Institution Campus

Kensington

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Engineering

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