

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 Course Details

<https://www.imperial.ac.uk/people/a.aguadero/teaching.html>

Host Institution Campus

Kensington

Host Institution Faculty

Host Institution Degree

Host Institution Department

Engineering

Course Last Reviewed

2023-2024

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