

# COURSE DETAIL

## CERAMICS AND GLASSES

**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**

116

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

CERAMICS AND GLASSES

**UCEAP Transcript Title**

CERAMICS & GLASSES

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course introduces students to the main methods and fundamental principles used for the processing of the engineering ceramics (and, to a lesser degree, the glass and glass ceramics), and provides an understanding of the factors that influence their mechanical and functional properties. The course is split into three main topics. The first is processing of bulk and thin film ceramics where students learn various methods, compounds, and particles of ceramic powders. The second part examines mechanical properties of ceramics and glasses, including study of cracking, stress, and strengths on solids. The final part focuses on electrodynamic properties and high frequency applications of ceramics.

## Language(s) of Instruction

English

## Host Institution Course Number

MATE60008

## Host Institution Course Title

CERAMICS AND GLASSES

## Host Institution Campus

Imperial

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Material Science and Engineering

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