# **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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