

## COURSE DETAIL

### MATERIALS 2

**Country**

United Kingdom - England

**Host Institution**

Imperial College London

**Program(s)**

Imperial College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

128

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

MATERIALS 2

**UCEAP Transcript Title**

MATERIALS 2

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course develops the understanding, securely based on materials science, of various common failure modes, the reasons for their occurrence and how we seek to avoid failure by design. This course enables students to predict component failures under multiaxial loading conditions due to yielding, fracture, fatigue and creep mechanisms and to identify these failure mechanisms in practice, and to design against them.

## Language(s) of Instruction

English

## Host Institution Course Number

MECH50005

## Host Institution Course Title

MATERIALS 2

## Host Institution Course Details

<https://www.imperial.ac.uk/mechanical-engineering/study/undergraduate/detailed-...>

## Host Institution Campus

Imperial College London

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Mechanical Engineering

## Course Last Reviewed

2023-2024

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