

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-...](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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