

COURSE DETAIL

ENGINEERING ALLOYS

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

142

UCEAP Course Suffix**UCEAP Official Title**

ENGINEERING ALLOYS

UCEAP Transcript Title

ENGINEERING ALLOYS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course teaches students to appraise engineering with alloys, and evaluate multi-objective engineering design problems (cost, temperature, performance – e.g. creep, fatigue, strength, processability, light weighting, material costs & lifecycle). Students discuss approaches to engineering design and lifing, where failure and optimisation of alloys dominate function (drawing in ideas of process-microstructure properties) in solid stage metal components and consider the science of alloys as a microstructure system with an engineering goal.

Language(s) of Instruction

English

Host Institution Course Number

MATE60007

Host Institution Course Title

ENGINEERING ALLOYS

Host Institution Course Details

<https://acrobat.adobe.com/link/review?uri=urn%3Aaaid%3Ascds%3AUS%3A66aea287-ae3...>

Host Institution Campus

Kensington

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mechanical Engineering

Course Last Reviewed

2023-2024

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