

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 Campus

Kensington

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mechanical Engineering

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