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:aaid:scds:US:66aea287-ae33-3859-b...

Host Institution Campus
Kensington

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mechanical Engineering

Course Last Reviewed
2023-2024

Print