

COURSE DETAIL

MATERIALS SCIENCE AND ENGINEERING

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Engineering

UCEAP Course Number

108

UCEAP Course Suffix**UCEAP Official Title**

MATERIALS SCIENCE AND ENGINEERING

UCEAP Transcript Title

MATERIALS SCI&ENGR

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course offers a study of the main principles of materials science and engineering including the relationship between structure, chemical bonding, properties, processing, and applications. It focuses on the primary group of materials including ceramics, metal, polymers, and composites. Other topics include: crystalline defects and solid solutions; diffusion; equilibrium phase diagrams; mechanical properties; heat treatments.

Language(s) of Instruction

English

Host Institution Course Number

15541,14190

Host Institution Course Title

CIENCIA E INGENIERÍA DE MATERIALES

Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=257&asig=15541&idioma=2&anio=2...>

Host Institution Campus

Leganés

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Host Institution Department

Ciencia e Ingeniería de Materiales e Ingeniería Química

Course Last Reviewed

2022-2023

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