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 Campus Leganés

Host Institution Faculty Escuela Politécnica Superior

Host Institution Degree

Host Institution Department Ciencia e Ingeniería de Materiales e Ingenieria Química

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