

COURSE DETAIL

BIOMECHANICS OF CONTINUUM MEDIA I (SOLIDS)

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)

Bioengineering

UCEAP Course Number

107

UCEAP Course Suffix**UCEAP Official Title**

BIOMECHANICS OF CONTINUUM MEDIA I (SOLIDS)

UCEAP Transcript Title

CONTINUUM MECHANICS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course provides an introduction to basic concepts of continuum mechanics for the analysis of elastic and viscoelastic solids. Topics include: introduction to continuum mechanics applied to living and inert solids; stress, strain and compatibility conditions; derivation of field equations and boundary conditions; properties of common solids; elasticity; viscoelasticity. Students are expected to have completed coursework in calculus and linear algebra.

Language(s) of Instruction

English

Host Institution Course Number

15539,19894

Host Institution Course Title

BIOMECHANICS OF CONTINUUM MEDIA I (SOLIDS)

Host Institution Campus

LEGANÉS

Host Institution Faculty

Escuela Politécnica Superior.

Host Institution Degree

Grado en Ingeniería Biomédica

Host Institution Department

Mecánica de Medios Continuos y Teoría de Estructuras

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