

COURSE DETAIL

COMPUTATIONAL CONTINUUM MECHANICS 2

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

126

UCEAP Course Suffix**UCEAP Official Title**

COMPUTATIONAL CONTINUUM MECHANICS 2

UCEAP Transcript Title

COMP CONTINU MECH 2

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course introduces students to the fundamentals of continuum mechanics that underpin the theoretical understanding of many engineering disciplines and to demonstrate how problems in continuum mechanics can be solved using numerical techniques. Particular attention is paid to the theory and implementation of the finite element method. The course provides the theoretical basis for higher level courses on applications of finite element methods and finite volume methods and is a companion module to Fluid Mechanics and Stress Analysis.

Language(s) of Instruction

English

Host Institution Course Number

MECH60021

Host Institution Course Title

COMPUTATIONAL CONTINUUM MECHANICS A

Host Institution Campus

Imperial College London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mechanical Engineering

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