

# COURSE DETAIL

## ELASTICITY AND PLASTICITY A

**Country**

United Kingdom - England

**Host Institution**

University College London

**Program(s)**

University College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

132

**UCEAP Course Suffix****UCEAP Official Title**

ELASTICITY AND PLASTICITY A

**UCEAP Transcript Title**

ELASTICTY&PLASTICTY

**UCEAP Quarter Units**

3.00

**UCEAP Semester Units**

2.00

## Course Description

Students are introduced to fundamental aspects of the theory of elasticity and how the results can be related to engineering applications. This includes classical problems relating to plane stress and strain, end loading problems relating to both torsion and shear, and an introduction to the finite element method. Although the emphasis is on theory, real-world applications are used as motivating and practice examples. Where practical, these examples are linked to current or recent research within the department. This is the fall only version of the year long course (MECH0026).

## Language(s) of Instruction

English

## Host Institution Course Number

MECH0027

## Host Institution Course Title

ELASTICITY AND PLASTICITY A

## Host Institution Campus

University College London

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Mechanical Engineering

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