

# COURSE DETAIL

## DYNAMICS 4

**Country**

United Kingdom - Scotland

**Host Institution**

University of Edinburgh

**Program(s)**

University of Edinburgh

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

135

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

DYNAMICS 4

**UCEAP Transcript Title**

DYNAMICS 4

**UCEAP Quarter Units**

4.00

**UCEAP Semester Units**

2.70

## Course Description

The course provides an understanding of core aspects of advanced dynamic analysis, dealing with system modelling, dynamic response and vibration analysis, structural dynamics both in the linear and non-linear regimes, wave propagation, and the dynamics of continuous and multi-degree of freedom systems. The main objective is to obtain an understanding and appreciation of the potential and limitations of analytical approaches and solutions, and the value of these in underpinning modern computer methods for simulating dynamic structural response.

### Language(s) of Instruction

English

### Host Institution Course Number

MECE10002

### Host Institution Course Title

DYNAMICS 4

### Host Institution Campus

Edinburgh

### Host Institution Faculty

School of Engineering

### Host Institution Degree

### Host Institution Department

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