

# COURSE DETAIL

## MUSICAL ACOUSTICS

**Country**

United Kingdom - Scotland

**Host Institution**

University of Edinburgh

**Program(s)**

Scottish Universities, University of Edinburgh

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

113

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

MUSICAL ACOUSTICS

**UCEAP Transcript Title**

MUSICAL ACOUSTICS

**UCEAP Quarter Units**

8.00

**UCEAP Semester Units**

5.30

## Course Description

The course gives students a richer and deeper understanding of the basic nature of musical sound. Students learn why different instruments have a characteristic sound or "timbre" and how to relate this to the structure of the instruments themselves. The course covers all the main instrument types including strings, percussion, brass, electronic, and voice. The auditorium where the music is played has an important influence on the listening experience - students develop an understanding of how the size and composition of the concert hall influences the music. Sound is detected in the sensitive components of the ear and the resulting nerve signals are then interpreted in the brain. The course introduces the basic principles necessary to understand this process, which are key to understanding the concept of "pitched" sound.

## Language(s) of Instruction

English

## Host Institution Course Number

PHYS08021

## Host Institution Course Title

MUSICAL ACOUSTICS

## Host Institution Campus

Edinburgh

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Physics and Astronomy

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