

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 Course Details

Host Institution Campus

Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department

Physics and Astronomy

Course Last Reviewed

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