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

Print