

COURSE DETAIL

SCIENCE AND MUSIC

Country

Hong Kong

Host Institution

University of Hong Kong

Program(s)

University of Hong Kong

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Music

UCEAP Course Number

33

UCEAP Course Suffix**UCEAP Official Title**

SCIENCE AND MUSIC

UCEAP Transcript Title

SCIENCE & MUSIC

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

The course examines the close connection between music and science that has existed historically from Pythagoras on into modern times. The course introduces the essential physics of musical sound production and analysis in order to understand the elementary principles behind wind, string and percussion instruments and their characteristic timbre. The course examines the development of scales from fundamental principles to identify some of the subtle differences between Chinese and Western music. Contemporary music and science interactions focus on electronic music and the working principles of modern instruments such as the electric guitar. Finally the course looks at some scientific understanding of musical appreciation and the factors that make music pleasing.

Language(s) of Instruction

English

Host Institution Course Number

CCST9014

Host Institution Course Title

SCIENCE AND MUSIC

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Common Core: Scientific and Technological Literacy

[Print](#)