

## COURSE DETAIL

### MUSICAL APPLICATIONS OF FOURIER THEORY AND DIGITAL SIGNAL PROCESSING

**Country**

United Kingdom - Scotland

**Host Institution**

University of Edinburgh

**Program(s)**

University of Edinburgh

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering

**UCEAP Course Number**

145

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

MUSICAL APPLICATIONS OF FOURIER THEORY AND DIGITAL SIGNAL PROCESSING

**UCEAP Transcript Title**

MUSIC APP/FOURIER

**UCEAP Quarter Units**

8.00

**UCEAP Semester Units**

5.30

**Course Description**

This course describes the mathematical underpinnings of Fourier theory, and digital signal processing, especially with regard to music and audio applications. The emphasis is on algebraic work, and on practical computation for sound analysis and synthesis.

**Language(s) of Instruction**

English

**Host Institution Course Number**

MUSI11034

**Host Institution Course Title**

MUSICAL APPLICATIONS OF FOURIER THEORY AND DIGITAL SIGNAL  
PROCESSING - UG & PG

**Host Institution Campus**

University of Edinburgh

**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Edinburgh College of Art

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