

# COURSE DETAIL

## DIGITAL MUSIC AND SOUND PROGRAMMING

**Country**

Taiwan

**Host Institution**

National Taiwan University

**Program(s)**

National Taiwan University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

134

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

DIGITAL MUSIC AND SOUND PROGRAMMING

**UCEAP Transcript Title**

DIG MUS SOUND PRGRM

**UCEAP Quarter Units**

3.00

**UCEAP Semester Units**

2.00

## **Course Description**

Because of the development of music-related AI area and multidisciplinary trends in science and music, the skills of digital music and audio synthesis are gradually needed by industries. The knowledge of digital music involves three areas: music, electrical engineering, and computer science. This course teaches how to program and design digital music, utilizing related programming languages, including chucK (for sound synthesis), Python (for edit and analyzing MIDI data), and Scratch (for auditory-visual interactive projects).

Course Prerequisite: "Learning Programming for Music" or any other related text-based programming courses.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

TA11210005

### **Host Institution Course Title**

FUNDAMENTAL PROGRAMMING FOR DIGITAL MUSIC AND SOUND SYNTHESIS

### **Host Institution Course Details**

[https://nol.ntu.edu.tw/nol/coursesearch/print\\_table.php?course\\_id=TA05UG027&cla...](https://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=TA05UG027&cla...)

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Center for General Education

### **Course Last Reviewed**

2025-2026

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