

# MUSIC-TECHNOLOGY (MUST)

---

**MUST 110 - Digital Audio & Multitracking. 2 Credits.**

Offered autumn and spring. Composition of computer music through recording, editing, and processing sound with digital audio software. Study of the theory and application of digital audio recording, multitracking, and digital signal processing, and electroacoustic music history. Survey of historical and current electronic and computer music composers, pieces, and practices.

**MUST 192 - Independent Study. 1-3 Credits.****MUST 210 - Sequencing, Synthesis, Sampling. 2 Credits.**

Offered autumn. Prereq., MUST 110. Composition of computer music using MIDI sequencing, sampling, and synthesis software, and score preparation using music notation software. Study of the theory and application of MIDI, synthesis algorithms, and effects processing, and the practice of music engraving.

**MUST 227A - Mtn Electroacoustic Ltp Ensemble I. 1 Credit.**

This is a new music workshop, in which student composers, guided by a faculty composer, collaborate on new pieces for electroacoustic ensemble. Each student will compose structured improvisations, scored with a combination of traditional and graphic notation, that the Mountain Electroacoustic Laptop Ensemble (MELEe) will perform, with their electric or amplified instruments, MIDI controllers, and laptop computers. Successful completion of MUST 310 is a prerequisite for taking this class, unless otherwise exempted by the instructor.  
Gen Ed Attributes: Expressive Arts Course (A)

**MUST 310 - Interactivity Digital Signal Processing. 2 Credits.**

Offered spring. Prereq., MUST 210 and upper-division standing in music. Composition of interactive computer music using a graphical programming environment for MIDI, synthesis, and digital signal processing. Study of graphical programming, interactive composition and performance, generating and processing MIDI data, synthesizing computer-generated sound, and processing digital audio in real-time.

**MUST 410 - Computer Music Programming. 2 Credits.**

Offered autumn. Upper-division standing in music. Composition of computer music through programming. Study of object oriented programming, synthesis and digital signal processing techniques, music-generating algorithms, sound spatialization, graphical user interface design, and external control.

**MUST 427 - Mtn Electroacoustic Ltp Ensemble II. 1 Credit.**

Offered autumn and spring. Prereq., consent of instructor. See MUSI 122A.

**MUST 491 - Special Topics. 1-6 Credits.**

(R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

**MUST 492 - Independent Study. 1-3 Credits.**

(R-9) Offered autumn and spring. Prereq., consent of instr.

**MUST 595 - Special Topics. 1-8 Credits.**

(R-8) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics. Level: Graduate

**MUST 596 - Independent Study. 1-6 Credits.**

(R-6) Offered intermittently. Prereq., consent of instr. Students must have projects approved by a music faculty member before enrolling. Level: Graduate