

Bulletin Description

A systematic look at music technology. Topics discussed include: computer hardware, software and operating systems, computer-assisted instruction, word processing, graphics, music notation, recording, sequencing, sampling, synthesis, and MIDI,

Prerequisites

MUTH-M100 or MUTH-M102

Textbooks and Other Materials to be Purchased by Student

Experiencing Music Technology 2nd Edition, Williams and Webster. New York: Schirmer.

A 100 mb ZIP disc formatted for the Apple Macintosh is required for this course and can be purchased at the Loyola bookstore or at any computer supply retailer.

Course Requirements**Assignments**

Assignments are due on the due-dates as assigned by the instructor. An assignment may be turned in late by one class period, but the grade is lowered one letter grade.

Assignments are not accepted after one class period (no exceptions, whether excused or not). All written assignments are to be made using a computer of your choice. Several computers are available on Loyola's campus. Any Zip Disc assignment must include your name clearly on the disc. All written assignments must include the assignment number and due-date.

Studio Labs

Students will utilize CM 203 for lab time, being assigned periodically one to two-hour labs in CM 203 with other students as partners. A teacher assistant will be assigned to some labs, helping with the assignments usually assigned on Wednesday and Thursday's classes and due on the following Monday and Tuesday's classes, respectively. A computer workstation is available for individual use in the Music Library Listening Lab when other classes are scheduled in CM 203. A class schedule will be posted on the door of CM 203.

Food and drink in CM 203 and the music listening lab is prohibited at all times. Smoking is not allowed in any other parts of the building, including the fire stairways. Loss of lab time and possible dismissal from class will result if this policy is violated.

Special Accommodations

Students with disabilities who believe that they need accommodations in this class are encouraged to contact the office of Academic Enrichment and Disability Services at 865-2990 as soon as possible so that accommodations can be implemented in a timely fashion.

Academic Integrity

All work you do for this class is expected to be your own, and academic dishonesty (including, but not limited to plagiarism on papers, music composition or cheating on exams) will be punished. A summary of the University's definitions and procedures concerning academic integrity can be found in the Undergraduate Bulletin (pp. 45-46). If you are uncertain how to use and cite the work of others within your own work, consult reference works such as Kate L. Turbian, *A Manual for Writers of Term Papers, Theses, and Dissertations*, 5th ed., revised and expanded by Bonnie Birtwhistle Honigsblum (Chicago and London: University of Chicago Press, 1987), or come see me.

Course Objectives

This course will provide an overview of music technology. Basis concepts of music technology and how the software and hardware are applied will be presented. Students will research current products and usage and will be expected to discuss and comment upon them. The goal is to provide a foundation for future understanding and learning.

Course Outline

Lab Projects

- #1 CD Project
- #2 Module Lab from CDR
- #3 Flow Chart
- #4 Lab 1 sounds
- #5 Lab 2 Blues/Quantize& Cut-paste
- #6 Lab Mix
- #7 Lab Student Teaching
- #8 Lab Student Teach Paper
- #9 Synthesizer Software

- #10 Lab Drum tracks
- #11 Recording Digital
- #12 Project Due: Last day of class at beginning of class
- #14 Mid-term exam
- #15 Final Exam: Last day of class

Readings

Viewport I People and Procedures

- Module 1 The importance of People
- Module 2 Misconceptions and Attitudes
- Module 3 Procedures and Applications
- Module 4 Finding Help

Viewport III Computer-Assisted Instruction in Music

- Module 9 Instruction Software for Musicians
- Module 10 Acoustic Primer
- Module 11 Data structures for Digital Audio and MIDI
- Module 12 Hardware Devices for Music CAI

Viewport VI Music Sequencing and MIDI

- Module 19 Software for Music Sequencing
- Module 20 MIDI Data Structures Revisited

Viewport V Music Notation

- Module 16 Music Notation Software

Viewport VII Creating Sounds and Music with Digital Audio

- Module 23 Software for Capturing, Editing, and Organizing Digital Sounds
- Module 24 Digital Audio Data Structures Revisited
- Module 25 Data Structures for Laser Audio and Video
- Module 26 Hardware for a Digital Audio Workstation

Evaluation

This course consists of written assignments, readings, labs, weekly quizzes, a mid-term and a final.

Grading (Approximately):

Assignments/quizzes: 40%

Exams: 35%

Final Project: 25%

Grades will be updated on a regular basis for the individual student to view upon request.

A "B" average for the class is required to register for all electronic music studio courses in later semesters.

Attendance

Attendance is taken by the instructor each class period. Missing 4 classes (excused or unexcused) lowers your grade one letter-grade; 5 classes, two letter grades; **6 classes, an automatic "F"** is given. The class begins on time each class session. Entering the room after the class begins results in a tardy. Two tardies equal one absence. You must attend your assigned lab at the prescribed time. Being tardy to your lab will only take time away from your assignment. Being absent from a lab results in a grade of "0" for the particular assignment.

Attendance is important because quizzes can be administered at the beginning of each class covering terms and concepts within the assigned reading. Any quiz begins precisely at the beginning of the class. Students who are tardy will not be able to take the quiz at a later time.