

MUGN M250-001 Introduction to Analog Recording and Live Sound 3 hour credit

Bulletin Description

A systematic look at analog recording techniques and live sound production. Topics discussed include: acoustics, microphones design and placement, signal path, console design, recording, mixing, editing, speaker placement, on-stage monitoring, and audio processors.

Prerequisites

MUGN M215 Music Technology

Or permission of instructor

Textbooks and Other Materials to be Purchased by Student

Modern Recording Techniques, Huber and Runstein, 5th Edition.

Tape Costs

Minimum: \$15.00 for the purchase of one Sony Hi 8mm video 30' and one DAT 15' tape.

You can purchase additional tapes if needed:

\$5.00 for one 15' DAT

\$10.00 for one Sony Hi 8mm 30' video

Longer tape:

\$15.00 for one Hi 8mm 1 hr 50'

\$10.00 for one 124' DAT

Deposit

A deposit of \$50.00 is required for this course. A check written to "Loyola University" for \$50.00 must be given to the instructor by the end of the second class of the semester (**September 11, 2001**). All purchases of tapes and extra usage of the studio beyond the assigned two hours per week will be deducted from the deposit. The remainder of your deposit will be refunded to you a few weeks after the end of the semester involved. Anyone owing more than \$50.00 will receive an "I" until Loyola is paid. The "I" turns to an "F" at mid-semester following.

Course Requirements

Assignments

Assignments are due on the due-dates. 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. All tape assignments must include your name clearly on the tape and the tape must be cued to its proper location. All assignments must include the assignment number and due-date.

Studio Labs

Students will be assigned a two-hour lab once per week with other students as partners. The lab will be assigned a teacher assistant to open the studio and help with the assignments usually assigned one week and due the following class time. Students wishing to use the lab for more than the two assigned hours per week will be debited \$5.00 per hour from their deposit. All extra time must be approved by the teacher assistant and Mr. Hinderlie (room 250).

Studio

Food and drink in the studio and control room 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 by you or any others under your responsibility, such as musicians in a band you are recording.

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 provides an overview of analog recording and live sound production. Topics discussed include: acoustics, microphones design and placement, signal path, console design, recording, mixing, editing, speaker placement, on-stage monitoring, and audio processors.

Course Outline

Topics in Studio

Introduction

Flow charts, overall approach to studio, console, recorders, patch bay, headphones, procedures,

Assignment #1

- a) Label input module
- b) Student schedule

Assignment #2

Flow chart getting a live signal from the studio to the speakers. (typed on a computer)

Microphones in the studio & set up, the console, patching to the cassette decks and DAT.

Assignment #3

Flow chart getting a live signal from the studio to the headphones (typed on computer).

Assignment #4

Record for one minute piano/drums to the DAT with a typed description and flow chart of the session (typed on computer). Be able to hear tape.

Taping in the Studio, Multi-track deck

Assignment #5

Record 3 separate signals for one minute on your multi-track tape on 3 different tracks, and be able to hear tape. Turn in with a typed description of the session (typed on computer) and flow chart. (Minimum 3 tracks)

Assignment #6

Send 3 microphone inputs to the DA 88 and reverb to the headphones. Turn in with a typed

description and flow chart of the session (typed on computer).

Assignment #7

Multi-track mix-down (flow chart and discussion typed on computer).

Assignment #8

Write substantial paragraph for Final Project

Assignment #9

Final Project

TEXT

Chapters 1 & 2	Intro; Sound &
Chapters 3	Acoustics
Chapters 4	Microphones
Chapter 10;	Console
Chapter 5;	The Analog Recorder
Chapter 11	Signal Processors
Chapter 15	Session Procedures
Chapter 12	Noise Reduction
Chapter 9	Amplifiers
Chapter 13	Monitors
Live Sound	
Beyond This Course	

Evaluation

This course consists of written assignments, readings, labs, quizzes, a final exam, and a final project.

Grading (Approximately):

Assignments/quizzes:	20%
Mid-term:	20%
Final Exam:	20%
Final Project:	20%

Class Participation 20%

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

A "C" average for the class is required to register for studio courses in later semesters.

Attendance

Missing 2 classes (excused or unexcused) lowers your grade one letter-grade; **3 classes, an automatic "F"** is given. The class begins on time each week. Entrance to the studio is prohibited after 7 p.m. at which time the door will be closed. 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 weekly quizzes will be administered at the beginning of each class covering terms and concepts within the assigned reading. The quiz begins precisely at 7:00 p.m.