

MUGN M350-001

Digital Audio Production 3 hour credit

Bulletin Description

An in-depth examination of the principles and applications of digital audio in today's recording and interactive media industries. Topics discussed include: digital audio fundamentals, recording and reproduction systems theory, computer and hardware based recording and editing, and audio for CD and other media applications.

Prerequisites

MUGN M250 Introduction to Analog Recording and Live Sound

Or permission of instructor

Textbooks and Other Materials to be Purchased by Student

How to Make and Sell Your Own Recording, 5th ed. Diane Rapaport

Modern Recording Techniques, Huber and Runstein. (From Course M250, Intro to Recording and Live Sound)

Sweetwater WEB site: www.sweetwater.com

Digidesign WEB site: www.digidesign.com

Tape Costs

You can purchase tapes and CDR's if needed.

\$5.00 for one DAT

\$10.00 for one Hi 8mm 30'

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

\$1.00 for blank CD

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 third class of the semester. 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 provided 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. All assignments must include the assignment number and due-date.

Studio Labs

Students will be assigned a two-hour lab once per week with another student as a partner. 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 \$7.00 per hour from their deposit. All extra time must be approved by the teacher assistant and Mr. Hinderlie.

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 digital recording. Upon completion of the course, students will be able to:

- Define principles, current standards, and common terminology associated with digital audio technologies;
- Have an understanding of the use of various sound creation and editing software programs;
- Identify current and future trends in digital audio technologies;
- Evaluate past and present digital audio commercial products;
- Identify opportunities to apply digital audio technologies in self-marketing and commercial use;
- Create various projects that reflect the different uses of digital audio technologies in music and industrial recording, sound design, audio for internet, and audio for video;
- Define and use various digital storage mediums;
- Define and use various digital interfaces and connection components;
- Define and use various synchronization techniques.

Course Outline

Topics

Introduction of the studio

Listen to projects from previous semesters

Mix-down concepts

Basics of Pro Tools: Creating Sessions

Transferring tape to disc

Introductions to Pro Tools

Essential Concepts

Tracking

Recording

Headphone

Editing Pro Tools

Plug-ins

Backing Up

HUI Controller

Mastering

Burning a CD

TEXT

Recording Options
Recording Procedures
Aspects of making a CD
Marketing a CD
Air play

STUDIO

<u>Assignment #1:</u>	Mix-down report. CD to class
<u>Assignment #2:</u>	Mix-down Hi-8 project
<u>Assignment #3:</u>	Digidesign Web; Pro Tools Videos
<u>Assignment #4:</u>	Create a Session, Record Basic Sound
<u>Assignment #5:</u>	Overdubbing, Editing Tracks
<u>Assignment #6:</u>	Reverb, Compression, EQ
<u>Assignment #7:</u>	Mix-down
<u>Assignment #8:</u>	Teaching
<u>Assignment #9:</u>	Automation/ HUI
<u>Assignment #10:</u>	Sounds and MIDI
<u>Assignment #11:</u>	Master Project onto CD
<u>Final Project:</u>	Major work utilizing entire system with acoustic sounds

Evaluation

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

Grading (Approximately):

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

A "B" 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.