

New York City College of Technology, CUNY
Entertainment Technology Dept.
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ENT 3390 – Sound for Multimedia

2 cl hrs, 2 lab hrs, 3 cr

Pre-requisites: ENT 1270

Course Description:

Introduction to the use of sound in multimedia, including post-production and editing, with an emphasis on integration with visual components. Students develop techniques of organizing and manipulating sound with industry standard software and hardware systems. Digital audio formats, compression protocols, streaming audio, synchronization, and integration with multimedia elements are covered. MIDI and basic sequencing are introduced as used in internet playback systems. Importing and exporting audio protocols between a variety of applications is covered. Students will work in an intensive, project-oriented environment, using a variety of applications. The final project adds sound to a visual media scene.

Course Goals

For the successful completion of this course, the students should be able to:

1. Demonstrate knowledge of basic concepts and terminology of Sound and Listening
2. Demonstrate ability to use software tools for sound production
3. Demonstrate ability to use audio tools in multimedia production software
4. Demonstrate knowledge of Categories of sound used in multimedia
5. Demonstrate ability to listen critically and analyze the use of sounds in professional multimedia
6. Manipulate and organize sounds in a mixing environment
7. Plan and produce a multi-track sound scene
8. Create a multi-track sound accompaniment for a media scene
9. Produce accurate technical documentation and diagrams for sound production

Final Grade will be based upon

10% Class Participation, Homework Assignments, Familiarity with Readings

8% Pop Quizzes
 32% Four Sound Labs
 10% Midterm Exam
 10% Final Exam
 15% Midterm Project
 15% Final Project: Production, Presentation, and Documentation

FOR FULL CREDIT OF EACH ASSIGNMENT

****Any written assignments must be typed up***
****Files must be named clearly with your name and the name of the assignment.***
****All audio files for all Sound Labs and Projects except for final bounced out files must be in the Audio Files folder to get full credit for the work. *Any late assignment is a letter grade down for every day it is late***

Semester Outline

	Course Modules
	Part I: Introduction to Sound - Concepts and Techniques
Week 1-3	<p>Overview; Learn about student backgrounds and experience</p> <p>Lecture: Sound, Audio & Multimedia Basics Mixing Concepts, Tools and Terms</p> <p>Lab: ProTools Intro; Effects Processing Intro Homework #1: Listening and Notation</p> <p>Lecture: Sound, Audio & Multimedia Basics Critical Listening, Mixing Concepts, Tools and Terms</p> <p>Introduction to Sound Technologies in Lab</p> <p>Sound Labs 1 & 2: Reverb and Mixing Assignments</p> <p>Lecture: Sound, Audio & Multimedia Basics Homework #2: Summarize Terminology for Quiz Complete Sound Lab 2 Begin Sound Lab #3: Musique Concrete Piece</p>

<p>Week 4-6</p>	<p>Recording - Signal Flow, Interface/H4 Recording, Logic, Frame Rates, ADR, Foley Recording; Effects Processing for AV Review for Quiz Work/Complete Sound Lab 3 Start Sound Lab #4 Homework #3: Study for Quiz; Complete SoundLab #4, Record/Sync Midterm Project</p> <p>QUIZ on TERMINOLOGY Lecture: Principles and Categories of Sound Design Jobs and Roles in Film Review Basic Recording Techniques</p> <p>Complete Sound Lab #4- Homework #4: Complete Sound Lab 4; Pick A Film Scene for Midterm Project</p> <p>LECTURE: Psychoacoustics & Sound Design LAB: FINALIZE FILM SCENE; Start Midterm Project HOMEWORK #5: Record and Sync up Midterm Project</p>
<p>Week 7-10</p>	<p>LECTURE: Review for Midterm Exam LAB: Work on Midterm Project HOMEWORK #6: Study for Midterm Exam</p> <p>MIDTERM EXAM Work on Midterm Project</p> <p>NO CLASS</p> <p>NO CLASS</p>
<p>Week 11</p>	<p>Midterm Project Due! Presentations of Projects Homework #7: Final Project Ideas</p>

<p>Week 12-14</p>	<p>LECTURE: Multi-Mic Recording Techniques; Post Production LAB: Draft Final Project; Sync/Record Sound Effects/ Dialogue Homework #8: Revise draft if needed for Final Project; Record/Sync Dialogue, Sound Effects</p> <p>LECTURE: Review on Multi-Mic Recording & Post Production; Critical Listening LAB: Complete final draft of Final Project; Sync/Record Sound Effects for Final Project; Final date for approval of plan for Final Sound Project Homework #9: Sync/Record for Final Project</p> <p>LECTURE: Overview for Mastering final recorded and mixed files; Audio Transmission and Reproduction LAB: Sync/Record Sound Effects for Final Project Homework #10: Sync/Record for Final Project</p> <p>LECTURE: More On Applying Mastering concepts and Critical Listening; Concert Recording Techniques Review for Final Exam LAB: Sync/Record Sound Effects for Final Project Homework #11: Final Project; Study for Final Exam</p>
<p>Week 15</p>	<p>Review of Concert Recording and Final Project Reminders Final Exam Final Projects Presented in Class</p> <p>Final Projects Presented in Class</p>

READINGS – Unofficial Text: Sound FX: Unlocking the Creative Potential of Recording Studio Effects Web and other readings assigned, discussed in class and/or posted to Blackboard.

Assigned readings throughout the semester will be TESTED by Pop Quizzes, Quiz, and Midterm. Students are expected to use Professional Terminology in their in their homework assignments.

Required Supplies

- Headphones with 1/4" connector for use during lab ✍ AT EVERY CLASS !!
- External Hard Drive with at least 7200 rpm

Grading Policy and Procedure

Grades will be awarded using the standard grading scale, but will be judged based upon effort applied, technical understanding & creative use of media resources for the completion of various assignments.

Make-ups

If a student finds they will not be able to present or hand in a project on the scheduled day, it is the student's responsibility to notify the instructor PRIOR to that due date. Quizzes and exams cannot be made unless of a major illness, family emergency, and/or death

Homework

Homework assignments will be collected at the beginning of class (when attendance is taken). Points will be deducted from late homework.

PROJECT WORK: STUDENTS WILL BE EXPECTED TO WORK AT LEAST SEVERAL HOURS EACH WEEK OUTSIDE OF THE CLASS.

LAB TIME IS AVAILABLE TO MEET THE SPECIFICATIONS OF THE PROJECTS AND THE TECHNOLOGY. You will NOT be able to finish your assignments during class.

The lab schedule will be made available.