

COURSE OUTLINE

THET-137

Sound I

3 Semester Hours

HOWARD COMMUNITY COLLEGE

Description

The purpose of this class is to enable students to safely work with basic sound equipment for the stage and provide a basic understanding of audio technology along with new innovations in audio technology. This will include working with microphones, amplifiers, mixers, tape decks and equalizers. Prerequisite: THET-135. (4 hours weekly)

Overall Courses Objectives

Upon successfully completing the objectives of this course the student will:

1. Articulate and demonstrate the uses and properties of sound design for the stage.
2. Gain an understanding of how sound design supports theatrical productions from the technical aspects of sound engineering.
3. Explain the physics and engineering needed to understand acoustics for the stage.
4. Recall the various types of transducers and their applications.
5. Identify and describe major changes and innovations in audio technology.
6. Explain the types and uses of filtration, limiting, delay, and compressions devices.
7. Evaluate and articulate the different types and uses of amplification devices.
8. Evaluate and articulate the different types and uses of sound reproduction devices.
9. Identify and distinguish the differences in the sound design from other styles and cultural theatrical productions.

Major Topics

- I. The 7 Design Steps
- II. Inputs and Outputs
- III. Mixing Consoles
- IV. Power Amplifiers, Loudspeakers, Microphones
- V. Turntables, CD's, Tape Recorders, Mini Disk Players
- VI. Cues and Analog Editing
- VII. Cues and Computer Software Digital Editing and Multi-track Recording
- VIII. Sound Waves and Frequencies
- IX. Signal Processing and Effects
- X. Acoustics & Reinforcement
- XI. Live Foley Sound Design
- XII. New Technology Innovations, Digital Audio Workstations

Course Requirement

Grading/exams: Grading procedure will be determined by individual faculty members but will include projects, quizzes, midterm exam, final exam and final project.

Other Course Information

This course may be used as an Arts, Humanities, or Arts and Sciences electives.