

Introduction to Audio Production

TCSU RTV 120

A. Description

This course introduces the theoretical and practical fundamentals of audio production, technology, and terminology. This may include exercises using available equipment, an introduction to the lexicon of audio production, and an understanding of the selection and use of audio tools that support, radio, television, video, film, and multimedia production.

B. Prerequisites

None

C. Minimum Unit Requirement

3 semester units

D. Course Topics

May include but not limited to the following:

1. Physics and Psychophysics of Sound
2. Microphones
3. Consoles and Control Surfaces
4. Recording
5. Synchronization and Transfers
6. Signal Processors
7. Loudspeakers and Monitoring
8. Producing Talk and Voice-overs
9. Producing Dialogue
10. Music Production
11. Internet Production
12. Sound Design
13. Sound Effects
14. Music Underscoring
15. Editing
16. Mixing and Rerecording
17. Copyright and legal use

E. Student Learning Outcomes

Upon successful completion of the course, students will be able to:

1. Understand basic physics of sound terminology; the sound wave, frequency/pitch, amplitude/loudness, phase, timbre and the sound envelope;
2. Comprehend acoustics; microphone classification, placement and use; theory and practical use of consoles, computers and software; analog/digital recording and storage devices; patching; editing; time code; signal processors; loudspeakers;

3. Understand audio used in studio and on-location production for radio, television and film;
4. Understand audio processes for voice recording, multimedia production, sound design; and
5. Complete applied projects to assess the student's knowledge of recording, editing, mixing, and balancing.