

CTE Audio Production – 2018-19
Denver School of the Arts

Instructor Info:

Jonathan Howard, Instructor
Phone: 720-424-1788
Email: jonathan_howard@dpsk12.org
Office Hours: Tues. & Thurs. 2:55 – 3:25

Course Overview:

Semester 1: This course introduces students to the Digital Audio Workstation, current practices with MIDI instruments, MIDI sequencing, MIDI editing, music notation programs.

Semester 2: This course is designed to give students a basic understanding of the Music Production process. This includes the basic knowledge of audio/music production, the fundamentals of sound and microphone, digital and analog technology, recording, and mixing.

Classroom Behavior Expectations:

- Take responsibility for your own learning.
- Be respectful of others.
- Engage in appropriate, effective, respectful and responsible communication and behavior.
- No food or beverages in classroom (only water in capped bottles).
- Be in class on time, awake, and prepared.

Attendance:

The attendance policy is followed very strictly in this class. Please review the attendance policy for both unexcused and excused absences as well as tardiness.

Student Evaluation:

Students are expected to participate actively in classroom discussions and presentations. In addition to completing assigned homework, students are required to keep a notebook containing all handouts as well as homework, quizzes, and tests that are returned.

Grades will be based on the following percentages:

50% Assignments & Projects
20% Tests and Quizzes
30% Academic Participation

Course Outline

Semester 1:

- A. Audio Software
 - a. Digital Audio Workstations – Logic Pro
 - b. MIDI concepts
 - c. Sequencing and Editing
 - d. Using Audio and MIDI Loops
 - e. Syncing sound and picture
 - f. Understanding basic music notation software
 - g. Using music notation software to produce score and parts

- B. Fundamental Principles of audio production
 - a. Sound waves
 - b. Overtones
 - c. Acoustics
 - d. Amplitude
 - e. Equal loudness contours

Semester 2:

- A. History of recorded sound and the impact of recorded sound on the music industry
 - a. Historical events
 - b. Leaders in the field
 - c. Roles in the studio recording process
- B. Sound System Basics
 - a. Signal flow
 - b. Cable types and connectors
 - c. Mixer configurations
 - d. Microphone types and functions
- C. Signal Processing
 - a. Dynamics: compressors and limiters
 - b. Equalization and filters
 - c. Reverb, delay and echo
 - d. De-essing
- D. Studio Equipment
 - a. Preamplifiers
 - b. Converters
 - c. Studio microphones
 - d. Patchbay
 - e. Cables
- E. Studio Recording Process
 - a. Session techniques
 - b. Mixing and Mastering
 - c. Microphone placement
- F. Music Business
 - a. Budgets
 - b. Equipment maintenance
 - c. Career options
- G. Applications
 - a. CD production
 - b. Genre specific recording and mixing
 - c. Music forms
 - d. Song analysis and construction

This course is designed to qualify for Concurrent Enrollment with Community College of Denver
- MUS 161 and MUS 163