

Spokane Falls Community College
COURSE LEARNING OUTCOMES AND OUTLINE

Prefix and Course Number
Course Title

AUDIO 213
Live Sound II

Last Modified: Fall 2006

Course Learning Outcomes

By the end of this course, a student should be able to:

- Learn to set up and use outboard effects units and signal processing equipment.
- Be able to assess system needs including engineering and equipment positions, cable paths, and power distribution requirements.
- Be able to set up and operate a large sound system including troubleshooting and sound check.
- Understand mixing techniques based upon principles of acoustics, equalization, decibel levels and psychoacoustics.
- Develop critical listening skills necessary to perform professional live mixing.
- Develop communication and negotiation skills necessary for employment.

Course Outline

1. Concert music systems and room acoustics
2. Using outboard gear
 - a. Equalizers
 - b. Real time analyzers
 - c. Compressors and gates
 - d. Reverbs
 - e. Delays
 - f. Speaker processors/crossovers
3. Assessing show needs
 - a. Acoustics
 - b. Stage dimensions
 - c. Monitor position
 - d. Front of house position
 - e. Cable paths
 - f. AC distribution requirements
 - g. Equipment locations
4. Speaking mounting and rigging
5. Complete set-up and operation of a large sound system
 - a. Assess needs
 - i. Advance work/planning/communication
 - b. Load-in and set-up
 - c. Staging and wiring
 - d. Testing and troubleshooting
 - e. The sound check

6. Mixing techniques and considerations
 - a. Critical listening
 - b. Psychoacoustics and dB
 - c. Effects and EQ
 - d. Decision making
 - e. Stage sound levels
 - i. Negotiations with band and monitor engineer

7. The hard part
 - a. Psychology
 - b. Communication
 - c. Professionalism
 - d. Emotions and your health
 - e. Keeping the gig

8. Field trips to local venues
 - a. Opera House
 - b. Veterans Arena
 - c. Convention centers
 - d. Big Easy
 - e. Others