

Course Description

This course provides training specific to live sound reinforcement and performance audio. Subjects include sound system design and implementation, mixing live sound, sound system maintenance, analog and digital audio consoles, distribution over audio networks (Dante or AVB), implementation of pre-recorded audio for live playback using Ableton Live, Q-lab, or SCS.

Prerequisite: MUSC 1515

Required Texts:

<u>The Sound Reinforcement Handbook,</u> Gary Davis and Ralph Jones; Second Edition; Hal Leonard Publishing; ISBN 978-0-8818-8900-0

Selection and Operation of Wireless Microphone Systems, Tim Vear; Shure Audio Institute; download here:

selection_and_operation_of_wireless_microphone_systems_english.pdf

Recommended Texts:

Mic It! Microphones, Microphone Techniques and Their Effect on the Final Mix; Ian Corbett; Focal Press ISBN- 978-0-415-82377

<u>Sound System Design and Optimization,</u> Bob McCarthy; Third Edition; Focal Press; ISBN- 978-0415731010

Course Content

This course is for students who wish to work in live performance audio production. There will be an examination of the functionality offered by a variety of live sound reinforcement tools, and students will have opportunities to gain experience in designing and installing temporary sound systems and deploying those systems in a live performance environment. These tools include microphones, analog and digital audio consoles, signal processors, public address speakers, and analog & digital cables. Students will begin to develop skills specific to crafting live mixes. Students will understand and deploy on-stage monitors for stage performers. Students will also learn about preparing recorded sounds for the use of live playback during performances using software applications such as Ableton Live and/or Q-lab.

Course Objectives

 Students will demonstrate their ability to design a basic sound system based on accepted industry best practices for minimizing destructive reflections and phase interference and optimizing the system design for even coverage.

- Students demonstrate the ability to assemble a basic audio system including microphones, electronic sound sources, mixing consoles, amplifiers, and loudspeakers, including proper analog and digital cabling and signal gain structure.
- Students will mix sound for a live production utilizing an analog or digital audio mixing console.
- Students will demonstrate their understanding of live sound technologies including, but not limited to: wireless microphones; in-ear monitors; analog and digital audio consoles; analog cabling; ethernet basics related to Dante and AVB audio networks.
- Students will demonstrate their ability to prepare sound effects and other pre-recorded sounds for playback in live sound situations and implement playback utilizing performance software such as Ableton Live, Qlab, SFX, or SCS.

Grading

Assignments	50%	95-100% = A	90-94% = A-	
Live Performance Assignment	20%	87-89% = B+	83-86% = B	80-82% = B-
Quizzes	10%	77-79% = C+	73-76% = C	70-72% = C-
Classroom attendance	20%	67-69% = D+	63-66% = D	60-62% = D-
	100%	59% or less = E		

Extra Credit

Extra credit may be earned upon request. Each request is handled on an individual basis.

Live Performance Assignment

Each student will be required to assist with audio for one of SLCC's music performances. This entails setting up microphones and running the audio for the performance as well as making a recording of the performance for SLCC's archives. A list of performances for which you may complete this assignment will be made available in the first couple of weeks of class and students will sign up for the performance of their choice. Once you have signed up for a performance, you MUST be present at the indicated performance. The choir or ensemble you will be running sound for will be counting on you to be there.

NO FOOD OR DRINK OTHER THAN WATER, IS ALLOWED IN THIS OR ANY OF THE PRODUCTION ROOMS

Canvas Support 24/7/365

Students can get help several ways:

Important Information for Students is available in Canvas under the Pages tab by following the link to the Institutional Syllabus information.