Basic Audio Production

MUSC1515 001

Course Description

A broad overview of sound, sound systems, recording, and live sound reinforcement providing basic training in the physics of sound and the hardware and systems used to control and record it.

Semester(s): All

A broad overview of sound, sound systems, recording, and live sound reinforcement providing basic training in the physics of sound and the hardware and systems used to control and record it.

Course Content:

An overview of sound, audio systems, audio recording/editing, and live sound reinforcement. The class will provide a basic level of training in the physics of sound and the hardware used to control or record it including but not limited to; microphones, mixers, peripheral processors, digital audio recorders, computer based Digital Audio Workstations (DAW), loudspeaker systems, room acoustics etc.

Goals:

Students will demonstrate an understanding of the basic physics involved in the transmission of sound and the mechanisms of hearing and electronic amplification including the impact of high listening volumes on long term hearing loss.

Students will demonstrate proficiency in the proper use of the language of sound and audio production; students will demonstrate their understanding of the meanings of numerous terms used in the business of audio production which will allow them to communicate effectively with other similarly engaged professionals.

Students will apply knowledge from lectures and readings to practical application in classroom exercises, including troubleshooting system malfunctions.

Students will demonstrate their ability to make informed decisions regarding equalization; dynamic range compression; noise gating; reverberation and delays; modulators; sample rates and bit depths; balanced vs. unbalanced cabling, etc.

Students will correctly interpret published information about audio equipment including frequency response graphs and polar response curves. Through interpolation, principles from this course are applicable to high level systems and advanced courses taught at this and other institutions.

Requirements:

Regular attendance and completion of class assignments in a timely manner are required. Audio assignment submissions must be in 192 Kbps mp3 format unless otherwise specified

Grading is based on quiz scores, test scores and completion of assignments.

Please Note:

- Any projects, sound, or video clips you use should be backed up after each class session. I have no control over the use of the computers in this lab. It is your responsibility to protect your data. Back up to a Flash Drive or portable HD.
- Audio assignments are to be turned in on Canvas as directed.

If you are late or miss class, you are responsible for finding out what you missed. I recommend study partners or groups. You may also message me on Canvas at any time.

Course Student Learning Outcomes

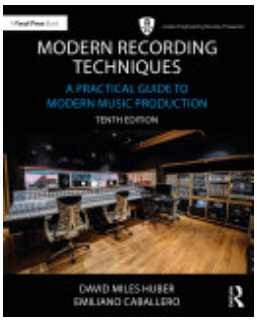
- Students will demonstrate an understanding of the basic physics involved in the transmission of sound and the mechanisms of hearing and electronic amplification including the impact of high listening volumes on long term hearing loss.
- Students will demonstrate proficiency in the proper use the language of sound and audio production; students will demonstrate their understanding of the meanings of numerous terms used in the business of audio production which will allow them to communicate effectively with other similarly engaged professionals.

- Students will apply knowledge from lectures and readings to practical application in classroom exercises, including troubleshooting system malfunctions.
- Students will demonstrate their ability to make informed decisions regarding equalization; dynamic range compression; noise gating; reverberation and delays; modulators; sample rates and bit depths; balanced vs. unbalanced cabling, etc.
- Students will correctly interpret published information about audio equipment including frequency response graphs and polar response curves. Through interpolation, principles from this course are applicable to high level systems and advanced courses taught at this and other institutions.

Communication Plan

The best way to contact me is via the Canvas inbox. You can expect a response within 48 hours.

Required Text or Materials



Title: Modern Recording Techniques
ISBN: 9781000926750
Authors: David Miles Huber, Emiliano Caballero, Robert Runstein
Publisher: CRC Press
Publication Date: 2023-10-09

For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.

Brief Description of Assignments/Exams

Students will complete a variety of projects related to audio editing, mixing, and live sound. There will be time in class to work on these projects.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Introduce Yourself	Discussion	0

Grading Scale

91-95%=A- 96-100%=A

81-83%=B- 84-87%=B 88-90%=B+

71-73%=C- 74-77%=C 78-80%=C+

60-63%=D- 64-67%=D 68-70%=D+

below 60%= E (Failing)

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

You can access the document by clicking on the following link: https://slcc.instructure.com/courses/530981/pages/institutional-syllabus

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or

want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, please visit the Institutional Syllabus under the Tutoring and Learning Support tab: https://slcc.instructure.com/courses/530981/pages/institutional-syllabus. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, please visit the Institutional Syllabus under the Advising and Counseling Support Services tab: https://slcc.instructure.com/courses/530981/pages/institutional-syllabus. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

SLCC Student Academic Calendar