



Course Syllabus
SEMESTER
School of Liberal Arts

Department: Department of Creative Arts & Media

Course Name: Sound Reinforcement & Production

Course Number: MUS275-XXX

Credits: 3

Contact Hours: 3 Lec

Day/Time/Location:

Instructor's Name:

Office Hours & Location:

Campus Phone:

Campus E-mail:

Catalog Description:

Construction and operation of public address systems. Sound systems are used in many varied environments, from board rooms to concert halls. Proper installation, operation and maintenance of all modern sound reinforcement gear is diagramed and analyzed. Event production, gear rental, rigging and cabling are also discussed.

Prerequisites/Co-Requisites: MUS 181

Current Textbooks, Materials, Equipment (software/hardware requirements):

Students are encouraged to bring their personal smart phone to class for downloading audio related applications. Headphones with a 1/4" connection will be used as well.

General Information

For information on FERPA, Cheating and Plagiarism, Assessment of Student Learning Outcomes and Student Code of Conduct, please refer to the appropriate section of the current Owens Community College Catalog online.

Course Description:

Construction and operation of public address systems. Sound systems are used in many varied environments, from board rooms to concert halls. Proper installation, operation and maintenance of all modern sound reinforcement gear is diagrammed and analyzed.

Proper use of analog and digital mixing consoles will be emphasized.

Event production gear rental, rigging and cabling are also discussed.

Basic stage lighting concepts and terminology will be discussed

Student Learning Outcomes:

1. Student will dissect the fundamental principles behind modern sound reinforcement systems.
2. Student will study basic acoustic principles and their application to sound reinforcement
3. Student will learn all common terms, cabling & interconnects associated with professional Sound systems
4. Students will learn proper operation, handling & storing of live sound equipment.
5. Students will the proper way to label & diagram stage plots and input lists for a variety of acts.
6. Students will learn the common microphone & polar pattern choices for live event production and how to apply this knowledge.
7. Student will summarize all the various outboard/onboard effects, dynamic processors & equalizers utilized in Live Sound production.
8. Student will examine the hierarchy of event production crew positions & their associated responsibilities.
9. Students will lean signal flow as it pertains to live audio systems
10. Students will learn how to use various digital and analogue mixing consoles.
11. Students will use a variety of software based analytical and mixing applications. Students will learn Dante patching of the schools audio system and QL1 mixer.
12. Students will learn troubleshooting techniques.
13. Students will learn basic stage lighting principles and fixtures used in event production

Grading Procedure:

Participation (Attendance in person or virtual): 25%

Assignments (5): 25%

Skills Assessment Proficiency Exams (4): demonstrate proficiency with instructor provided scenarios by using audio equipment/software in class: 25%

Pop Quizzes (5): during class or via blackboard: 25%

Grading Scheme: Numerical Grade Letter:

90 – 100 = A

80 – 89 = B

70 – 79 = C

60 – 69 = D

0 – 59 = F

Grading and Assignments

The course will be lecture-based covering the agenda for the day and related topics. Much of the course will be hands-on based using a variety of audio and lighting equipment. An agenda will be provided on the first day of class.

Attendance

Class will begin on time. You will be allowed 1 "unexcused" absence. Attendance in person or virtual is 25% of your final grade! Being 30 minutes late is the same as an absence! Attendance is very important! You will get behind quickly if you do not attend class. You will not pass the course if you do not show up or are constantly late. If you stop attending class and do not officially withdraw, then you will earn an F for the course.

Classroom Policies:

Please turn off all cell phones unless instructed to do so otherwise. You will be asked to leave the classroom if you are noodling around with your phone, iPod, computer etc during class time. There will be times when you will be asked to use your personal phone or tablet to download some audio related applications. Food is not allowed in the classroom/lab.

Equipment

The equipment should be treated with and care: improper use will void your access to the equipment which will give you a 0% for the assignments and final project. This means do not unplug, move, or change any of the equipment unless specified by me or another instructor. If something doesn't work, please notify me ASAP. (All of the classroom lab time will be monitored by me or another instructor.) Sanitizing procedures will be followed before and after each use of any equipment.

Evaluation:

Assignments

You are expected to complete the assigned homework by the next class session. Any other additional assigned tasks are assignments and are due on the date specified in the course outline. Please see the grading Rubric below for grading expectations for each assignment.

Final Exam

There is no final written exam for this class.

Spring Break: No Classes

DATES

Student Responsibility:

I will make it my highest priority to make sure everyone understands what is expected of them. The class will follow the syllabus with everything being covered in class during lecture or lab time. If there are extra reference materials they will be provided online through the blackboard course shell or handed out in class.

Disability Resources Services:

Disability Resource Services:

If you have a disability or acquire one, you may be entitled to receive reasonable accommodations intended to assure you an equal opportunity to participate in and benefit from the program. To receive more information or to register for accommodations, please contact the Disability Resource Center in **College Hall 124** at 567-661-7007 or email disability@owens.edu.

Religious Accommodations:

A student seeking an accommodation for an absence permitted under Ohio's Testing Your Faith Act must provide the instructor with a **written email** notice with the specific dates for an absence, and must do so not later than fourteen (14) days after the first day of instruction. **Alternative accommodations are not retroactive, and no academic penalty will be imposed for an absence under the policy***. The request for an alternative accommodation will be kept confidential. Students with questions about a religious accommodation under Ohio's Testing your Faith Act may contact the College's Office of Academic Affairs: provost@owens.edu

Anti-Discrimination and Harassment & Title IX/Sexual Misconduct:

All students, faculty, and staff are expected to follow Owens Community College's Anti-Discrimination and Harassment Policy and the College's Title IX/Sexual Misconduct Procedures and Guidelines. The College strictly prohibits and will not tolerate harassment, discrimination, intimidation, or hostile/offensive working or learning environments.

If you are unfamiliar with the Anti-Discrimination and Harassment Policy, it can be

found at: <https://www.owens.edu/trustees/procedures/proc3358-11-4-17.pdf>
 If you are unfamiliar with the Title IX/Sexual Misconduct Procedures and Guidelines, it can be found at: <https://www.owens.edu/itsonus/>

Counseling Services:

Counseling Services offers consultation, mental health assessment, counseling, crisis support, education, prevention, outreach, and linkage to community resources at no additional charge to Owens Community College students. More information is at <https://www.owens.edu/counseling/>. If you feel you may benefit from this service, please contact them at (567) 661-7028, or counselingservices@owens.edu.

Student Code of Conduct:

All students are expected to follow Owens Community College's Student Code of Conduct. If you are unfamiliar with the code, it can be found at <https://www.owens.edu/conduct/>

General Rubric for Assignments

Criteria	Outstanding 100-95	Proficient 94-80	Basic 79-60	Below Expectation 59-0
Organization	Addresses all requirements of the assignment	Addresses most of the requirements for the assignment	Generally Informative but lacking substance Does not follow all the requirements of the assignment	None of the assignment requirements followed
Relevance	All ideas relate to the topic Media relates to the topic	All ideas relate to the topic Media mostly relates to the topic	Merely adequate in presenting the topic Lack of any related media	Not adequate in presenting the topic Lack of any media at all
Support	Uses multiple, reliable sources Provides concrete evidence and examples	Uses at least one reliable sources Provides evidence and at least one example	Does not use any reliable sources Provides little evidence and concrete examples	Does not provide any evidence of understanding of the topic nor any sources Does not provide any concrete examples
Integration of Media	Contains specified media types Enhances the understanding of the topic	Contains at least one type of media Enhances the understanding of the topic	Choice of media does not clearly aid in the understanding of the topic	Does not include any media related to the topic at all

Academic Calendar (Subject to Change)

Week 1	Syllabus, overview and objectives of class. Audio Terminology 101 Types of audio systems. Understanding equipment spec sheets Basic audio system set-up, placement and design. • <i>Audio terms assignment #1(due week #2)</i> (SLO #1 ,#2, #3)
Week 2	Review of terms. Audio console introduction and functionality
Week 3	Audio console lab time. Student will be given scenarios to work on Skills assessment #1 (SLO #7, #10)
Week 4	Microphone types. Microphone uses and technique Direct boxes Lab time with wired microphones • Students will experiment listening to various microphones. Document their findings

Week 5	Input list and stage plots Cable and stage management 101 Cable management lab time-Proper cable rolling technique and how to wire a stage <i>Homework assignment #2- Create a stage plot and input for a 5 piece rock band. Due week 6</i> (SLO #3, #10)
Week 6	Review of weeks 1-5 Mixing multiple Microphones. Gain before feedback Using stage monitors introduction. Effects, Dynamics and EQ techniques Introduction to wireless Types of wireless microphones Frequency coordination <i>In class assignment #3- Coordinate 12 Shure UR series wireless microphone frequencies for Toledo, Ohio using the Shure website.</i> (SLO #4, #9, #10)
Week 7	Work flow discussion- Putting it all together Advanced mixing techniques and tools Yamaha studio manager TF Editor Using and I-Pad for mix applications
Week 8	<i>In class assignment #4- Download Yamaha TF Editor and set up a show for a given scenario. Save the file to a USB drive and email to instructor</i> (SLO #7, #10, #11, #9) Owens Spark Summit DATE at the Center for Fine and Performing Arts https://www.owens.edu/cam/sparksummit/ (UPDATE)
Week 9	Student presentation of Yamaha TF Editor assignment Discussion of multiple mix stage monitoring Using wedge monitors properly Using in ear monitors properly Lab-students will set up a multiple mix stage monitor application

Week 10	Lab - setting up a mix w/ multiple mics <i>Skills assessment #2-</i> (SLO # 1 thru #12)
Week 11	Mixing multiple zones. Using matrix and aux sends to create sub mixes Mix/Minus applications Troubleshooting 101 Troubleshooting 101 Lab- students will be given scenarios to troubleshoot and solve
Week 12	Yamaha studio manager for QL5 console. Students will use class time to design input list and set up a Yamaha QL5 mixer using studio manager for a symphony orchestra.
Week 13	Discussion of digital audio distribution and formats Understanding of Dante, Madi and Rock-Net formats Review of weeks 6 thru 13 Skills assessment scenarios • Homework assignment #5 (due week # 14) Shure networking basics for audio professionals certification (SLO #11, #10)
Week 14	Introduction to lighting Discussion of common theatrical fixtures and uses Discussion lighting terms • Homework assignment #6 - lighting terms (due week 15) (SLO # 13)
Week 15	Discussion of lighting focus technique Discussion of lighting plots and patching Using patterns/diffusion to create mood
Week 16	Final scenarios and skills assessment #4 Mix Audio for Owens Pop Ensemble Concert (SLO # 1 thru #12)

MUS275 Sound Reinforcement & Production (Spring Semester only)

- Students will sign up for technical responsibilities for spring concerts. (SLO # 1 thru #12)
- Coordination with the Technical Director ahead of the event date
- This includes implementation and planning of Rider requirements requested by the performer(s).
- Setup of microphones in coordination with the Technical Director and instructor of course
- Mixing audio in the house in order to send audio feed to livestream (under supervision of the course instructor)

DATE at TIME

PERFORMERS

CFPA Theatre

Owens Spark Summit

DATE at the Center for Fine and Performing Arts

Disclaimer: "The instructor reserves the right to amend this syllabus as deemed necessary and will communicate such amendment to the students in the course."