

MUSI 1220

Textbook: The Sound Reinforcement Handbook. Written for Yamaha by Gary Davis & Ralph Jones. 2nd ed. Hal Leonard Corporation, 1989

Evaluation	3 section exams	70% of final grade
	Daily preparation and participation	10% of final grade
	Lab	10% of final grade
	Homework, in-class assignments	10% of final grade

Week One: Introduction to the course. Careers and job activities in the audio industry. Suggested reading list. Professional organizations and conferences. Video “David Byrne: How Architecture Helped Music Evolve”. Section 1 & 2. Lab: Correct handling of equipment.

Week Two: Review. Section 17. Basic Electronics. Electrical safety. Lab: Electrical connections and testing.

Week Three: Review. Section 5 & 6 Acoustical environments. Critical listening. Lab: Sound system setup.

Week Four: Review for Exam. Section 3 & 4 Sound level and dynamic range. Lab: Interpreting stage plots and concert set up.

Week Five: Exam over Sections 1 thru 6 and 17. Section 8 Reading and interpreting specifications. Lab: Stage teardown and equipment storage.

Week Six: Review. Perception of Sound. Lab: Setup and running crew.

Week Seven: Review. Section 9 & 16. Lab: Use of real-time analyzers and graphic equalizers.

Week Nine: Review. Section 10 Microphones. Lab: microphone placement.

Week Ten: Review. Section 15 Cabling. Lab: Building cables.

Week Eleven: Review for Exam on Sections 9, 10, 15, and 16. Section 11 Mixers Lab: Live mixing.

Week Twelve: Exam on Sections 9, 10, 15, and 16. Section 12 & 13 Power amplifiers and loudspeakers.

Week Thirteen: Review. Section 18 Loudspeakers.

Week Fourteen: Section 19 and 20 MIDI and time codes. Lab: Stage setup

Week Fifteen: Review for Final Exam. Sections 1 thru 20.

Week Sixteen: Final Exam, Sections 1 thru 20.

Learning Outcomes for MUSI 1220 – Live Sound Workshop

1. The student will demonstrate a basic understanding of electricity including safety practices, electrical terms, load calculation, and electrical connections.
2. The student will demonstrate basic understanding of acoustics and human hearing.
3. The student will demonstrate basic understanding of the application and use of types of audio components used in live sound applications.
4. The student will demonstrate the ability to read and interpret audio component specification sheets and owner's manuals.
5. The student will understand the specific responsibilities of the live sound engineer or crewmember.
6. The student will demonstrate knowledge of various types of microphones and their appropriate applications and placement.
7. The student will demonstrate the ability to interpret a tech rider and stage plot.