



Course Description

MUM2600 | Sound Recording 1 | 3.00 credits

An introduction to techniques, practices, and procedures in making eight-track recordings. The student will gain experience with acoustical balancing, editing and over-dubbing in a wide variety of sound situations. Corequisite: MUM2600L.

Course Competencies:

Competency 1: the student will demonstrate a basic understanding of the physics of sound and hearing by:

1. Identifying the fundamental physical properties of sound
2. Describing the basic concepts associated with measuring and describing sound
3. Describing the mechanical and electrical processes of the various components of the human ear

Competency 2: the student will demonstrate a basic understanding of the responsibilities associated with various recording studio duties by:

1. Describing the roles and respective tasks of the record producer, audio engineer, traffic manager, and maintenance technician

Competency 3: the student will demonstrate a basic understanding of recording studio facilities and their function by:

1. Listing different types of recording studios
2. Describe the studio control room's physical makeup and acoustic properties
3. Describe the physical characteristics and acoustic properties of the tracking room and isolation booth

Competency 4: Upon successful completion of this course, the student will demonstrate a basic understanding of the function of the project studio by:

1. Producing a comprehensive diagram of a project studio
2. Describing equipment, materials, and related costs associated with project studio development

Competency 5: Upon successful completion of this course, the student will demonstrate knowledge of audio cables and connectors by:

1. Differentiating among various types of cables and connectors and their uses
2. Identifying commonly used cables and connectors

Competency 6: Upon successful completion of this course, the student will demonstrate a basic understanding of commonly used studio microphones and their typical applications by:

1. Identifying the physical characteristics that differentiate microphones
2. Identifying appropriate microphones based on project needs
3. Describing proper microphone placement
4. Comparing various mixing techniques

Competency 7: Upon successful completion of the course, the student will demonstrate a basic understanding of audio signal routing by:

1. Identifying various capabilities and applications of recording studio surfaces and consoles
2. Identifying various audio signal paths

Competency 8: Upon successful completion of this course, the student will demonstrate a basic understanding of audio signal processing by:

1. Identifying various types of equalizers and their application
2. Identifying various types of time-based effects processors and their application
3. Identifying various types of dynamic range processors and their applications

Competency 9: Upon successful completion of this course, the student will demonstrate a basic understanding of the recording process by:

1. Differentiating among the digital and analog components of the recording process
2. Discussing data storage basics and issues associated with digital recording media and file management
3. Identifying various sample and bit rates commonly used in professional digital recording applications
4. Identifying commonly used audio file types in the digital recording process
5. Describe the various components and functions of the digital audio workstation

Competency 10: Upon successful completion of this course, the student will demonstrate knowledge of professional resources dedicated to the field of sound recording by:

1. Listing various organizations and publications that serve the needs of the audio community

Learning Outcomes:

- Solve problems using critical and creative thinking and scientific reasoning
- Use computer and emerging technologies effectively
- Demonstrate an appreciation for aesthetics and creative activities