9170 Advanced Music Theory for Sound Engineering (12A)

40S/40E/40M

A Sound Engineering Course

9170: Advanced Music Theory for Sound Engineering (12A) 40S/40E/40M

Course Description

This course expands on the knowledge and skills students acquired in 9167 Music Theory for Sound Engineering and participate in the engineering of a live performance at an intermediate level.

Goal 1: Describe and apply appropriate **health and safety** practices.

GLO 1.1: Describe and apply appropriate **health and safety** practices.

- SLO 12A.1.1.1 Create and maintain a safe and organized working environment.
- SLO 12A.1.1.2 Give examples of workplace safety and health hazards related to sound engineering.
- SLO 12A.1.1.3 Discuss sound pressure levels and their relationships to hearing loss.
- SLO 12A.1.1.4 Use hearing protection as required.
- SLO 12A.1.1.5 Demonstrate proper selection and use of a variety of personal protective equipment.
- SLO 12A.1.1.6 Outline the safety principles for working on and around electrical and sound equipment.
- SLO 12A.1.1.7 Outline workplace fire safety principles.

Goal 2: Demonstrate an understanding of **audio theory** and **music theory**.

GLO 2.1: Demonstrate an understanding of **audio theory**.

- SLO 12A.2.1.1 Demonstrate the ability to identify frequencies by ear.
- SLO 12A.2.1.2 Discuss how the principles of audio theory can be incorporated into sound engineering.
- SLO 12A.2.1.3 Discuss how psychoacoustic phenomena affects sound engineering.

GLO 2.2: Demonstrate an understanding of **music theory**.

- SLO 12A.2.2.1 Identify root position chords by ear.
- SLO 12A.2.2.2 Read and play major scales in all keys.
- SLO 12A.2.2.3 Read and play minor scales in all keys.

- SLO 12A.2.2.4 Demonstrate an understanding of extended harmonies.
- SLO 12A.2.2.5 Play extended harmonies on an instrument.
- SLO 12A.2.2.6 Compose a four-part vocal/instrumental arrangement.
- SLO 12A.2.2.7 Follow guidelines for voice leading in four-part (SATB) arrangements.
- SLO 12A.2.2.8 Demonstrate the ability to sing intervals.

Goal 3: Communicate by making music.

GLO 3.1: Communicate by **making music**.

- SLO 12A.3.1.1 Relate modal theory.
- SLO 12A.3.1.2 Play and sing a I, IV, V form in four keys on an instrument.
- SLO 12A.3.1.3 Play and sing a rhythm base in one key.
- SLO 12A.3.1.4 Demonstrate the ability to improvise.

GLO 3.2: Participate in a musical performance.

- SLO 12A.3.2.1 Describe the steps required to prepare for a musical performance.
- SLO 12A.3.2.2 Demonstrate, with a minimum of supervision or instruction, the steps required to prepare for a musical performance.
- SLO 12A.3.2.3 Demonstrate the skills to participate in a musical performance at an intermediate level.

Goal 4: Engineer studio sessions and live performances.

GLO 4.1: Demonstrate the identification, selection, and management of **musical instruments** and **recording equipment**.

No applicable SLOs.

GLO 4.2: Perform **pre-production** sound engineering duties.

No applicable SLOs.

GLO 4.3: Demonstrate **blocking** a live performance.

No applicable SLOs.

GLO 4.4: Engineer studio sessions and live performances.

No applicable SLOs.

GLO 4.5: Perform **post-production** sound engineering duties.

GLO 4.6: Demonstrate **striking** a live performance.

No applicable SLOs.

- **Goal 5:** Describe and demonstrate the transferable **cross-curricular** knowledge and skills that are relevant to sound engineering.
 - **GLO 5.1:** Read, interpret, and communicate information that is relevant to sound engineering.
 - SLO 12A.5.1.1 Read, interpret, and communicate information related to music theory.
 - **GLO 5.2:** Apply the knowledge and skills from **mathematics** that are relevant to sound engineering.
 - SLO 12A.5.2.1 Demonstrate an awareness of the exponential relationships found in music (e.g., exponential changes in frequency as the sound moves from one note to the octave above).
 - **GLO 5.3:** Apply the knowledge and skills from **the sciences** that are relevant to sound engineering.
 - SLO 12A.5.3.1 Describe how sound engineering is related to the mechanism of the human voice.
 - **GLO 5.4:** Apply the knowledge and skills from **other subject areas** (e.g., information and communication technology, electronics, the arts) that are relevant to sound engineering.

No applicable SLOs.

- **Goal 6:** Demonstrate an awareness of **sustainability** as it pertains to sound engineering.
 - **GLO 6.1:** Describe the impact of **human sustainability** on the well-being of those employed in the music industry and their consumers.

No applicable SLOs.

GLO 6.2: Describe the industry's **sustainability practices** and impact on the environment.

No applicable SLOs.

GLO 6.3: Describe **sustainable business practices** within the industry.

- **Goal 7:** Demonstrate an awareness of the **ethical and legal standards** as they pertain to sound engineering.
 - **GLO 7.1:** Demonstrate an awareness of the **ethical and legal standards** as they pertain to sound engineering.
 - SLO 12A.7.1.1 Discuss ethical considerations in the music industry.
- Goal 8: Demonstrate employability skills.
 - **GLO 8.1:** Demonstrate fundamental employability skills.
 - SLO 12A.8.1.1 Demonstrate regular and punctual attendance.
 - SLO 12A.8.1.2 Demonstrate the ability to communicate respectfully and effectively with teachers, supervisors, co-workers, and students.
 - SLO 12A.8.1.3 Demonstrate accountability by taking responsibility for their actions.
 - SLO 12A.8.1.4 Demonstrate adaptability, initiative, and effort.
 - SLO 12A.8.1.5 Demonstrate teamwork skills.
 - SLO 12A.8.1.6 Demonstrate the ability to stay on task and effectively use time in class and work environments.
 - SLO 12A.8.1.7 Demonstrate the responsible use of wireless communication devices.
 - **GLO 8.2:** Demonstrate an awareness of **cultural proficiency** and its importance in the workplace.

No applicable SLOs.

GLO 8.3: Demonstrate **critical thinking skills**.

No applicable SLOs.

GLO 8.4: Demonstrate an understanding of the **business operation** of a music organization.

No applicable SLOs.

- **Goal 9:** Demonstrate an understanding of the **industry**.
 - **GLO 9.1:** Demonstrate an understanding of the **scope** of the music industry.

GLO 9.2: Demonstrate an understanding of the **educational and career opportunities**, as well as **industry associations**, in the sound engineering industry.

No applicable SLOs.

GLO 9.3: Demonstrate an understanding of **working conditions** in sound engineering.

No applicable SLOs.

- **Goal 10:** Demonstrate an awareness of the **evolution**, **technological progression**, and **emerging trends** in sound engineering.
 - **GLO 10.1:** Describe the **history, technological progression**, and **emerging trends** in sound engineering.