



9169

SOUND ENGINEERING FOR  
LIVE PERFORMANCES (11C)

30S/30E/30M

A Sound Engineering Course



# 9169: SOUND ENGINEERING FOR LIVE PERFORMANCES (11C) 30S/30E/30M

## Course Description

Students will learn the knowledge and skills required to manage a live performance, including blocking and striking a stage, as well as the pre-production and editing of the performance.

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

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

- SLO 11C.1.1.1 Create and maintain a safe and organized working environment.
- SLO 11C.1.1.2 Give examples of workplace safety and health hazards related to sound engineering.
- SLO 11C.1.1.3 Discuss sound pressure levels and their relationships to hearing loss.
- SLO 11C.1.1.4 Use hearing protection as required.
- SLO 11C.1.1.5 Demonstrate proper selection and use of a variety of personal protective equipment (PPE).
- SLO 11C.1.1.6 Outline the safety principles for working on and around electrical and sound equipment.
- SLO 11C.1.1.7 Outline workplace fire safety principles.

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

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

No applicable SLOs.

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

SLO 11C.2.2.1 Demonstrate the ability to communicate effectively with live performers.

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### **Goal 3:** Communicate by **making music**.

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

No applicable SLOs.

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**GLO 3.2:** Participate in a **musical performance**.

SLO 11C.3.2.1 Demonstrate the skills required to participate in a live performance.

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**Goal 4: Engineer** studio sessions and live performances.

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

SLO 11C.4.1.1 Identify musical instruments and recording equipment required for a specific live performance.

SLO 11C.4.1.2 Identify, select, and manage musical instruments and recording equipment used in live performances.

SLO 11C.4.1.3 Identify, select, and manage cables and connectors used in live performances.

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

SLO 11C.4.2.1 Perform pre-production duties for recording a live performance.

SLO 11C.4.2.2 Participate in a sound check for a live performance.

SLO 11C.4.2.3 Manage audio files for a live performance.

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

SLO 11C.4.3.1 Demonstrate an understanding of live sound reinforcement terminology.

SLO 11C.4.3.2 Demonstrate the skills required to block a stage for a performance that includes several performers and instruments.

SLO 11C.4.3.3 Connect cables and sound reinforcement equipment.

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**GLO 4.4: Engineer** studio sessions and live performances.

SLO 11C.4.4.1 Demonstrate the skills to edit, mix, and incorporate special effects (including reverb, EQ, delay, and compression) during a live performance, at an intermediate level.

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

SLO 11C.4.5.1 Demonstrate the skills to edit, mix, and incorporate special effects (including reverb, EQ, delay, and compression) after a live performance, at an intermediate level.

SLO 11C.4.5.2 Demonstrate the ability to perform the mastering process for a live performance, at an intermediate level.

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

SLO 11C.4.6.1 Demonstrate the skills required to strike a stage used in a performance that includes several performers and instruments.

SLO 11C.4.6.2 Disconnect and manage cables and sound reinforcement equipment.

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**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 11C.5.1.1 Read, interpret, and communicate information found on equipment such as microphones, amplifiers, mixers, etc.

SLO 11C.5.1.2 Read, interpret, and communicate information found in documents such as equipment owner's manuals.

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**GLO 5.2:** Apply the knowledge and skills from **mathematics** that are relevant to sound engineering.

No applicable SLOs.

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**GLO 5.3:** Apply the knowledge and skills from **the sciences** that are relevant to sound engineering.

No applicable SLOs.

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**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.

SLO 11C.5.4.1 Demonstrate a basic understanding of the electrical principles involved in recording and live sound reinforcement.

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**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.

SLO 11C.6.1.1 Describe ergonomically appropriate procedures to avoid injury.

SLO 11C.6.1.2 Discuss factors that lead to noise-induced hearing loss and how it can be prevented.

SLO 11C.6.1.3 Discuss risk factors and treatments related to hearing impairment.

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**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.

No applicable SLOs.

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**Goal 8:** Demonstrate **employability** skills.

**GLO 8.1:** Demonstrate **fundamental employability skills**.

SLO 11C.8.1.1 Demonstrate regular and punctual attendance.

SLO 11C.8.1.2 Demonstrate the ability to communicate respectfully and effectively with teachers, supervisors, co-workers, and students.

SLO 11C.8.1.3 Demonstrate accountability by taking responsibility for their actions.

SLO 11C.8.1.4 Demonstrate adaptability, initiative, and effort.

SLO 11C.8.1.5 Demonstrate teamwork skills.

SLO 11C.8.1.6 Demonstrate the ability to stay on task and effectively use time in class and work environments.

SLO 11C.8.1.7 Demonstrate the responsible use of wireless communication devices.

SLO 11C.8.1.8 Demonstrate the ability to communicate effectively with performers.

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**GLO 8.2:** Demonstrate an awareness of **cultural proficiency** and its importance in the workplace.

SLO 11C.8.2.1 Demonstrate an awareness of protocols for performance of First Nations, Métis, and Inuit (FNMI) music.

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

SLO 11C.8.3.1 Demonstrate critical thinking skills in solving problems related to live performances.

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**Goal 9:** Demonstrate an understanding of the **industry**.

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

No applicable SLOs.

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**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.

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

No applicable SLOs.

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**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.

No applicable SLOs.

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