



9171

ADVANCED SOUND  
ENGINEERING FOR STUDIO  
PRODUCTIONS (12B)

40S/40E/40M

A Sound Engineering Course



# 9171: ADVANCED SOUND ENGINEERING FOR STUDIO PRODUCTIONS (12B) 40S/40E/40M

## Course Description

This course expands on the knowledge and skills students acquired in 9168 Sound Engineering for Studio Productions. Students will, with a minimum of supervision, initiate and manage a studio session, assuming the role of a technical director. Students will demonstrate the use of advanced techniques in editing the production.

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

No applicable SLOs.

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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**.

No applicable SLOs.

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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 12B.4.1.1 Identify, select, and manage all of the musical instruments and recording equipment required for a studio production.

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

SLO 12B.4.2.1 Perform a sound check for a recording studio session.

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

No applicable SLOs.

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

SLO 12B.4.4.1 Demonstrate the skills required to engineer an ensemble group.

SLO 12B.4.4.2 Demonstrate, at an advanced level, the ability to adjust the mixer audio levels based on the studio performance.

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

SLO 12B.4.5.1 Demonstrate, at an advanced level, the skills to edit, mix, and incorporate special effects (including reverb, EQ, delay, and compression) after a studio production.

SLO 12B.4.5.2 Demonstrate, at an advanced level, the ability to perform the mastering process for a studio production.

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

No applicable SLOs.

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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.

No applicable SLOs.

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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 12B.5.4.1 Demonstrate proficiency in the use of music production software.

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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.

No applicable SLOs.

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

SLO 12B.6.2.1 Discuss the lifespan of electronic devices.

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

SLO 12B.6.3.1 Define and discuss the concept of sustainable business practices.

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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.

SLO 12B.7.1.1 Discuss the consequences of unethical behaviour.

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

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

SLO 12B.8.1.1 Demonstrate regular and punctual attendance.

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- SLO 12B.8.1.2 Demonstrate the ability to communicate respectfully and effectively with teachers, supervisors, co-workers, and students.
  - SLO 12B.8.1.3 Demonstrate accountability by taking responsibility for their actions.
  - SLO 12B.8.1.4 Demonstrate adaptability, initiative, and effort.
  - SLO 12B.8.1.5 Demonstrate teamwork skills.
  - SLO 12B.8.1.6 Demonstrate the ability to stay on task and effectively use time in class and work environments.
  - SLO 12B.8.1.7 Demonstrate the responsible use of wireless communication devices.
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**GLO 8.2:** Demonstrate an awareness of **cultural proficiency** and its importance in the workplace.

- SLO 12B.8.2.1 Discuss the place of First Nations, Métis, and Inuit (FNMI) artists in the Canadian music industry.
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**GLO 8.3:** Demonstrate **critical thinking skills**.

No applicable SLOs.

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

No applicable SLOs.

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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.

- SLO 12B.9.1.1 Discuss the place of sound engineering in the Canadian economy.
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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.

- SLO 12B.9.2.1 Discuss educational and career opportunities in sound engineering for studio productions.
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**GLO 9.3:** Demonstrate an understanding of **working conditions** in sound engineering.

- SLO 12B.9.3.1 Discuss the working conditions for studio sound engineers.
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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.

SLO 12B.10.1.1 Describe the history, technological progression, and emerging trends in sound engineering for studio productions.

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