9209

FUNDAMENTALS OF COMPOSITING AND VISUAL EFFECTS (11B)

30S/30E/30M

A Motion Picture Arts Course

9209: Fundamentals of Compositing and Visual Effects (11B)
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Course Description

In this course, students will extend their learning in visual storytelling by using digital tools to add effects and create more impactful moving images. VFX skills learned in this course include motion design, chroma key (green screen), masking, rotoscoping, and demo reel development.

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

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

SLO 11B.1.1.1: Demonstrate an understanding of online safety procedures in areas including personal identity, privacy, usernames, and passwords.

SLO 11B.1.1.2: Adhere to online safety procedures in areas including personal identity, privacy, usernames, and passwords.

SLO 11B.1.1.3: Maintain a safe and organized workspace.

SLO 11B.1.1.4: Keep cables safe.

SLO 11B.1.1.5: Demonstrate an understanding of ergonomically appropriate procedures that minimize the possibility of injury.

SLO 11B.1.1.6: Follow ergonomically appropriate procedures that minimize the possibility of injury.

Goal 2: Demonstrate the ability to identify, select, use, and maintain **software, hardware, supplies,** and **equipment**.

GLO 2.1: Demonstrate the ability to identify, select, and use **software**.

SLO 11B.2.1.1: Demonstrate the ability to identify, select, and use software.

GLO 2.2: Demonstrate the ability to identify, select, use, and maintain **hardware**.

SLO 11B.2.2.1: Demonstrate the ability to identify, select, use, and maintain hardware.

GLO 2.3: Demonstrate the ability to identify, select, use, and maintain **supplies and equipment**.

SLO 11B.2.3.1: Demonstrate the ability to identify, select, use, and maintain supplies and equipment.

Goal 3: Incorporate **project management** processes throughout the development cycle.

GLO 3.1: Document the development process.

SLO 11B.3.1.1: Demonstrate an awareness of the documentation process.

SLO 11B.3.1.2: Demonstrate the ability to create an informal record of the progress of a project.

GLO 3.2: Collaborate with peers, teachers, and industry representatives.

SLO 11B.3.2.1: Demonstrate the ability to provide, request, and incorporate feedback from peers, teachers, and/or industry representatives.

GLO 3.3: Evaluate the project development process.

SLO 11B.3.3.1: Demonstrate the ability to evaluate the project's progress and to modify the process when required.

GLO 3.4: Incorporate **quality control** processes.

SLO 11B.4.1.1: Demonstrate the ability to perform quality control on a project.

Goal 4: Conceptualize a project.

GLO 4.1: Demonstrate an understanding of the **theoretical foundation** of the motion picture arts when conceptualizing a project.

SLO 11B.4.1.1: Demonstrate an understanding of the theories behind the project (e.g., colour theory, visual language, principles of animation, photorealism).

SLO 11B.4.1.2: Demonstrate the ability to research and apply the elements of visual language (i.e., line, shape, space, contrast, tone, and colour).

SLO 11B.4.1.3: Demonstrate the ability to apply continuity to the effects and colour throughout a project.

GLO 4.2: Demonstrate the ability to **research project ideas, project requirements, and target audiences**.

SLO 11B.4.2.1:   Demonstrate research skills.

SLO 11B.4.2.2:   Demonstrate the ability to plan footage to optimize compositing.

GLO 4.3: Develop a project concept.

SLO 11B.4.3.1:   Demonstrate an understanding of project concepts.

SLO 11B.4.3.2:   Demonstrate the ability to select a concept based on project criteria.

SLO 11B.4.3.3:   Demonstrate the ability to assess and select assets based on project criteria.

SLO 11B.4.3.4:   Demonstrate the ability to develop a project concept.

Goal 5: Plan and pitch projects.

GLO 5.1: Determine the **scope, timeline,** and **milestones** of a project.

SLO 11B.5.1.1:   Demonstrate the ability to determine a project's scope, timeline, and milestones.

SLO 11B.5.1.2:   Demonstrate the ability to determine steps to reach milestones.

GLO 5.2: Demonstrate the ability to develop a **pre-production plan**.

SLO 11B.5.2.1:   Demonstrate the ability to develop a pre-production plan (e.g., set up framing and composition, reference, costume, makeup).

SLO 11B.5.2.2:   Demonstrate the ability to develop a concept drawing.

SLO 11B.5.2.3:   Demonstrate the ability to plan to capture footage that optimizes compositing in post-production.

GLO 5.3: Develop and pitch previsualization.

SLO 11B.5.3.1:   Demonstrate the ability to screen and pitch the previsualization for a project.

Goal 6: Create, capture, and compose **assets**.

    GLO 6.1: Create, capture, and compose **assets**.

        SLO 11B.6.1.1: Demonstrate the ability to create assets (third party plug-ins, 3-D models, particles).

        SLO 11B.6.1.2: Demonstrate the ability to operate equipment for asset creation.

        SLO 11B.6.1.3: Demonstrate the ability to compose assets (e.g., chroma-keying, key framing, layer management, motion graphics, masking, mattes, paint fixing, tracking, rotoscoping, match move).

Goal 7: **Publish, present, review, and assess** projects.

    GLO 7.1: **Publish, present, review, and assess** projects.

        SLO 11B.7.1.1: Demonstrate the ability to publish content.

        SLO 11B.7.1.2: Demonstrate the ability to present projects.

        SLO 11B.7.1.3: Demonstrate the ability to review feedback and assess projects.

Goal 8: Describe and demonstrate the transferable **cross-curricular** knowledge and skills relevant to motion picture arts.

    GLO 8.1: Describe and demonstrate the transferable **cross-curricular** knowledge and skills relevant to motion picture arts..

        SLO 11B.8.1.1: Demonstrate an understanding of and the application of mathematical skills and knowledge (e.g., units of measurement, fractions, ratios, percentages, scale) that relate to compositing.

Goal 9: Demonstrate an awareness of **sustainability** as it pertains to the motion picture arts.

    GLO 9.1: Describe the motion picture arts industry's **sustainability practices** and impact on the environment.

        SLO 11B.9.1.1: Describe the motion picture arts industry's sustainability practices and impact on the environment.

GLO 9.2: Describe the impact of the motion picture industry on **human sustainability**, that is, on the health and well-being of its workers and consumers.

SLO 11B.9.2.1: Demonstrate an awareness of ergonomics.

Goal 10: Demonstrate an awareness of the **ethical and legal standards** as they pertain to motion picture arts.

GLO 10.1: Demonstrate an awareness of the **ethical and legal standards** as they pertain to motion picture arts.

SLO 11B.10.1.1: Demonstrate an awareness of copyright and the ownership of intellectual material.

SLO 11B.10.1.2: Demonstrate an understanding of, and compliance with, copyright legislation as it pertains to original content.

Goal 11: Demonstrate **employability skills**.

GLO 11.1: Demonstrate **fundamental employability skills**.

SLO 11B.11.1.1: Demonstrate regular and punctual attendance.

SLO 11B.11.1.2: Demonstrate the ability to communicate respectfully and effectively with teachers, supervisors, co-workers, and students.

SLO 11B.11.1.3: Demonstrate accountability by taking responsibility for own actions.

SLO 11B.11.1.4: Demonstrate adaptability, initiative, and effort.

SLO 11B.11.1.5: Demonstrate the ability to stay on task and effectively use time in class and work environments.

SLO 11B.11.1.6: Demonstrate the responsible use of technology.

SLO 11B.11.1.7: Provide and accept constructive feedback.

GLO 11.2: Demonstrate an awareness of **culture** and its importance in the workplace.

SLO 11B.11.2.1: Demonstrate an awareness of potentially sensitive or offensive content.

GLO 11.3: Demonstrate **critical thinking skills**.

SLO 11B.11.3.1: Demonstrate critical thinking and problem-solving skills when conducting research and troubleshooting technical issues.

Goal 12: Demonstrate an understanding of the **motion picture arts industry**.

GLO 12.1: Demonstrate an understanding of the **scope** of the motion picture arts industry.

SLO 11B.12.1.1: Demonstrate an understanding of the scope of the motion picture arts industry.

SLO 11B.12.1.2: Demonstrate an awareness of the place of post-production in the Canadian economy.

GLO 12.2: Demonstrate an understanding of **educational and career opportunities**, as well as **industry and professional associations**, in the motion picture arts industry.

SLO 11B.12.2.1: Demonstrate the ability to develop an online portfolio.

SLO 11B.12.2.2: Demonstrate an understanding of the scope of career opportunities in post-production.

GLO 12.3: Demonstrate an understanding of **working conditions** in motion picture arts.

SLO 11B.12.3.1: Demonstrate an understanding of the conditions related to working in a post-production studio.

Goal 13: Demonstrate an awareness of the **evolution** of the motion picture arts, including **technological progression and emerging trends**.

GLO 13.1: Demonstrate an awareness of the **evolution** of the motion picture arts, including **technological progression and emerging trends**.

SLO 11B.13.1.1: Demonstrate an awareness of the history of, and technological progression and emerging trends in, compositing and visual effects.