



9158

PHOTOGRAPHIC EQUIPMENT  
(11A)

30S/30E/30M

A Photography Course



# 9158: PHOTOGRAPHIC EQUIPMENT (11A) 30S/30E/30M

## Course Description

This course focuses on the safe and appropriate use of professional photographic equipment, such as the functions of DSLR cameras, different types of lenses, and tripods. Students will learn about different brands and types of DSLR cameras, and the specific uses of each one.

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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 11A.1.1.1: Follow safety practices when using tools, equipment, and materials.
- SLO 11A.1.1.2: Locate first aid stations and fire extinguishers.
- SLO 11A.1.1.3: Describe the reporting process for injuries.
- SLO 11A.1.1.4: Describe the steps used in the Right to Refuse process.
- SLO 11A.1.1.5: Explain how and where to find information on workplace safety and health.
- SLO 11A.1.1.6: Explain the Workplace Hazardous Material Information System (WHMIS).
- SLO 11A.1.1.7: Match the WHMIS hazardous materials symbols and their meanings.
- SLO 11A.1.1.8: Describe the importance of the Material Safety Data Sheets (MSDS).
- SLO 11A.1.1.9: Give examples of safety and health hazards found in photography.
- SLO 11A.1.1.10: Describe the importance of using Personal Protective Equipment (PPE).
- SLO 11A.1.1.11: Demonstrate proper selection and use of a variety of PPE and fall protection systems.
- SLO 11A.1.1.12: Outline the safety principles for working on and around electrical equipment.
- SLO 11A.1.1.13: Outline the safety principles for working on and around cables.
- SLO 11A.1.1.14: Outline workplace fire safety principles.
- SLO 11A.1.1.15: Maintain a clean and organized work area.

- SLO 11A.1.1.16: Discuss the need for safety when selecting locations for photographic assignments.
- SLO 11A.1.1.17: Maintain an organized and safe work environment.
- SLO 11A.1.1.18: Demonstrate knife safety standards when cutting mats, photographs, and other materials.
- SLO 11A.1.1.19: Follow safety procedures when using roller (tucking in loose clothing and hair, etc.)

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**Goal 2:** Demonstrate awareness of the **evolution, technological progression, and emerging trends.**

**GLO 2.1:** Describe the **evolution, technological progression, and emerging trends.**

No applicable SLOs.

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**Goal 3:** Identify, select, use, and manage **cameras, equipment, materials, and software.**

**GLO 3.1:** Identify, select, use, and manage **cameras.**

- SLO 11A.3.1.1: Demonstrate understanding of bracketing.
- SLO 11A.3.1.2: Demonstrate understanding of exposure compensation.
- SLO 11A.3.1.3: Differentiate between full-frame and cropped sensor cameras.
- SLO 11A.3.1.4: Describe the features and specifications of different types of cameras.
- SLO 11A.3.1.5: Describe how the features and specifications of different types of cameras make them more appropriate for different types of photography (i.e., sports photography and portrait photography).

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**GLO 3.2:** Identify, select, use, and manage **equipment, materials, and software.**

- SLO 11A.3.2.1: Demonstrate understanding of hand-held light metering.
  - SLO 11A.3.2.2: Demonstrate the use of grey cards.
  - SLO 11A.3.2.3: Demonstrate the use of off-camera flash.
  - SLO 11A.3.2.4: Describe the specifications of different types of camera lenses.
  - SLO 11A.3.2.5: Describe how the features and specifications found in different types of camera lenses make them more appropriate for different types of photography.
  - SLO 11A.3.2.6: Identify, select, use, and manage accessories (e.g., tripods, pistol grips, straps, and cables and tethering).
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**Goal 4:** Demonstrate understanding of photographic **theory**.

**GLO 4.1:** Demonstrate understanding of the elements and principles of theory related to **composition**.

- SLO 11A.4.1.1: Demonstrate understanding of the elements of composition into photographs, including
- line
  - shape
  - colour
  - texture
  - value
  - space
- SLO 11A.4.1.2: Demonstrate understanding of the principles and guidelines of composition into photographs, including
- proportion
  - balance
  - contrast
  - emphasis
  - motion
  - perspective
  - point of view
  - rhythm
  - pattern
  - rule of thirds
  - framing
  - simplicity
  - leading lines
  - orientation
  - depth of field
  - background
  - cropping
  - golden rule
- SLO 11A.4.1.3: Demonstrate understanding of layouts and builds.
- SLO 11A.4.1.4: Demonstrate understanding of photographic resolution, dots per inch, and pixels per inch.
- SLO 11A.4.1.5: Demonstrate understanding of design theory in their use of fonts.
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**GLO 4.2:** Demonstrate understanding of theory related to **light**.

- SLO 11A.4.2.1: Demonstrate understanding of custom white balance, the use of histograms, and the principles of high and low key photographs.
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**Goal 5:** Demonstrate understanding of **photographic pre-production.**

**GLO 5.1:** Demonstrate understanding of **photographic pre-production.**

- SLO 11A.5.1.1: Analyze each photographic assignment in order to determine the equipment required.
- SLO 11A.5.1.2: List and describe all of the equipment required for each photographic assignment.

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**Goal 6:** Demonstrate **photographic production.**

**GLO 6.1:** Demonstrate **outdoor photography.**

- SLO 11A.6.1.1: Describe equipment and materials (including cameras, lenses, and filters) used for outdoor photography
- SLO 11A.6.1.2: Demonstrate the operation of photographic equipment used in outdoor photography.
- SLO 11A.6.1.3: For outdoor assignments, determine equipment needed and adjust the settings based on factors such as weather conditions, time of day, location, etc.
- SLO 11A.6.1.4: Determine camera settings for outdoor photography.
- SLO 11A.6.1.5: Discuss optimal moment to photograph outdoor assignments.
- SLO 11A.6.1.6: Evaluate results and modify settings.
- SLO 11A.6.1.7: Photograph outdoor architectural assignments.
- SLO 11A.6.1.8: Identify the elements of design found in their outdoor architectural photograph.

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**GLO 6.2:** Demonstrate **indoor, on-location photography.**

- SLO 11A.6.2.1: Describe equipment and materials (including cameras and lenses) for indoor, on-location photography.
  - SLO 11A.6.2.2: Demonstrate the operation of photographic equipment used in indoor, on-location photography.
  - SLO 11A.6.2.3: Determine camera settings for indoor, on-location photography.
  - SLO 11A.6.2.4: Discuss optimal moment to photograph indoor, on-location assignments.
  - SLO 11A.6.2.5: Photograph indoor, on-location assignments.
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**GLO 6.3: Demonstrate studio production.**

- SLO 11A.6.3.1: Describe equipment and materials (including cameras and lenses) for studio productions.
  - SLO 11A.6.3.2: Demonstrate the use of photographic equipment in studio productions.
  - SLO 11A.6.3.3: Determine camera settings for studio productions.
  - SLO 11A.6.3.4: Photograph studio productions.
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**GLO 6.4: Demonstrate portrait photography.**

- SLO 11A.6.4.1: Describe equipment and materials (including cameras and lenses) for portrait photography.
  - SLO 11A.6.4.2: Incorporate pre-existing security features.
  - SLO 11A.6.4.3: Demonstrate the operation of photographic equipment used in portrait photography.
  - SLO 11A.6.4.4: Demonstrate understanding of the theory related to posing subjects.
  - SLO 11A.6.4.5: Discuss optimal moment to photograph people.
  - SLO 11A.6.4.6: Photograph people to required criteria.
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**GLO 6.5: Demonstrate event photography.**

- SLO 11A.6.5.1: Describe equipment and materials (including cameras and lenses) for event photography.
  - SLO 11A.6.5.2: Determine camera settings for event photography.
  - SLO 11A.6.5.3: Demonstrate the operation of photographic equipment used in event photography.
  - SLO 11A.6.5.4: Discuss the optimal moment to photograph a specific moment in an event.
  - SLO 11A.6.5.5: Photograph events to established criteria.
  - SLO 11A.6.5.6: Evaluate results of each photograph and, if necessary, modify settings and reshoot.
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**Goal 7:** Demonstrate understanding of the properties of **photographic post-production**.

**GLO 7.1:** Demonstrate understanding of **photographic editing**.

No applicable SLOs.

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**GLO 7.2:** Demonstrate understanding of **hard copy photographic output**.

SLO 11A.7.2.1: Demonstrate the ability to print photographs following criteria.

SLO 11A.7.2.2: Demonstrate understanding of the qualities of various substrates (including materials, sizes, paper profiles, and aspect ratios) used in printing photographs.

SLO 11A.7.2.3: Select appropriate substrate (i.e., paper, vinyl, canvas) when printing.

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**GLO 7.3:** Demonstrate understanding of **digital photographic output**.

No applicable SLOs.

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**GLO 7.4:** Demonstrate understanding of **mounting and framing**.

SLO 11A.7.4.1: Demonstrate mat cutting following industry standards.

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

**GLO 8.1: Research, read, interpret, and communicate** information relevant to photography.

SLO 11A.8.1.1: Research, read, interpret, and communicate information relevant to photography.

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**GLO 8.2:** Apply the knowledge and skills from **mathematics** relevant to photography.

SLO 11A.8.2.1: Demonstrate measurement skills required to mount and frame photographs.

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**GLO 8.3:** Apply the knowledge and skills from **other subject areas** (Arts, Social Studies) relevant to photography.

SLO 11A.8.3.1: Discuss how photography can be a vehicle for social change.

SLO 11A.8.3.2: Demonstrate understanding of vanishing point and perspective.

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**GLO 8.4:** Apply the knowledge and skills from the **sciences** relevant to photography.

No applicable SLOs.

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**Goal 9:** Demonstrate awareness of **sustainability** as it pertains to photography.

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

SLO 11A.9.1.1: Discuss the environmental impact of the chemicals used in printing and production.

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**GLO 9.2:** Describe the impact of **human sustainability** on the well-being of those employed in photography and those who use their products and services.

SLO 11A.9.2.1: Demonstrate ergonomically correct procedures to avoid injury (e.g., stress, strain) while editing photographs.

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**GLO 9.3:** Describe **sustainable business practices** within the photography industry.

SLO 11A.9.3.1: Discuss what a photographic business can do to remain solvent.

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**Goal 10:** Demonstrate awareness of the **ethical and legal standards** as they pertain to photography.

**GLO 10.1:** Demonstrate awareness of the **ethical and legal standards** as they pertain to photography.

SLO 11A.10.1.1: Discuss the impact of sustainable electrical systems on human health and well-being.

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**Goal 11: Demonstrate employability skills.****GLO 11.1: Demonstrate fundamental employability skills.**

- SLO 11A.11.1.1: Demonstrate regular and punctual attendance.
  - SLO 11A.11.1.2: Demonstrate the ability to communicate respectfully and effectively with teachers, supervisors, co-workers, and students.
  - SLO 11A.11.1.3: Demonstrate accountability by taking responsibility for their actions.
  - SLO 11A.11.1.4: Demonstrate adaptability, initiative, and effort.
  - SLO 11A.11.1.5: Demonstrate teamwork skills.
  - SLO 11A.11.1.6: Demonstrate the ability to stay on task and effectively use time in class and work environments.
  - SLO 11A.11.1.7: Demonstrate the responsible use of wireless communication devices.
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**GLO 11.2: Demonstrate awareness of cultural proficiency and its importance in the workplace.**

- SLO 11A.11.2.1: Define and discuss the meaning of culture.
  - SLO 11A.11.2.2: Discuss the importance of culture in the workplace.
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**GLO 11.3: Demonstrate understanding of the business operation of a photographic business/service.**

- SLO 11A.11.3.1: Discuss the purpose of model release forms.
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**GLO 11.4: Demonstrate critical thinking skills.**

- SLO 11A.11.4.1: Discuss how problem-solving skills are required in photography.
  - SLO 11A.11.4.2: Troubleshoot problems with cameras and equipment.
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**Goal 12:** Demonstrate understanding of the **photography industry**.

**GLO 12.1:** Demonstrate understanding of the scope of the **photography industry**.

SLO 11A.12.1.1: Discuss the place of photography in the Canadian economy.

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**GLO 12.2:** Demonstrate understanding of the **educational and career opportunities**, as well as the **industry and professional associations**.

SLO 11A.12.2.1: Demonstrate understanding of the scope of careers in photography.

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**GLO 12.3:** Demonstrate understanding of **working conditions** in the photography industry.

SLO 11A.12.3.1: Demonstrate understanding of working conditions in the photography industry.

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