8465
INTRODUCTION TO PRINT PRODUCTION (9)

15S/15E/15M
10S/10E/10M

A Print Media Course

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Course Description

This is an optional course (half-credit or full credit) intended for students who wish to sample the print media vocation.

Curriculum content focuses on a broad exploration of the entire discipline of print media. The emphasis will be on project-based activities.

The course includes an exploration of essential skills related to safety and employability. Students will also explore career development, sustainability, and new and emerging technologies in print media.

Cross-curricular learning outcomes, which include essential print media math, the science of print media, and the interpretation of trade documents, are to be integrated into the authentic activities of the course.

The learning outcomes are organized by Technology Fundamentals (F), Technology Skills (S), and Professional Practice (P) strands. For instructional purposes, the sequence of outcomes and the outcomes included in each unit of study can vary based on the projects within the course.

Goal 1: Demonstrate ability to apply the creative process to develop a professional **design** for print.

GLO 1.1: Identify the **design problem**.

SLO 9.F.1.1.1	Demonstrate basic knowledge of the need for design in the print production process.
SLO 9.F.1.1.2	Demonstrate basic knowledge of the design process (i.e., thumbnails, rough layouts, comprehensives, and production layout).
SLO 9.S.1.1.1	Identify the required components (e.g., images, text) for the design problem.

GLO 1.2: Research the **factors that influence design**.

SLO 9.F.1.2.1	Identify purpose, audience, and type of print output required for the problem.
SLO 9.S.1.2.1	Examine samples of design solutions.
SLO 9.S.1.2.2	Identify the required specifications (e.g., colour, size, font, and images) for the design problem.

GLO 1.3: Recognize and apply the **elements and principles of design**.

SLO 9.F.1.3.1	Demonstrate basic knowledge of how elements and principles of design communicate messages effectively.
SLO 9.S.1.3.1	Arrange elements by applying principles of design to create a basic layout.

GLO 1.4: **Conceptualize** the design solution.

SLO 9.F.1.4.1	Brainstorm design ideas.
SLO 9.F.1.4.2	Demonstrate basic knowledge of the initial stages of the design process (e.g., thumbnails, rough layouts).
SLO 9.S.1.4.1	Draw thumbnails and rough layouts using appropriate symbols (e.g., type, graphic elements).

GLO 1.5: **Communicate** the design solution.

SLO 9.S.1.5.1	Communicate design solution (e.g., rough layouts, explanations, and justifications of the design).

GLO 1.6: Describe and apply **appropriate technology** to achieve the design solution.

SLO 9.F.1.6.1	Identify software (e.g., page layout, image manipulation, and illustration) used in the print production industry.
SLO 9.F.1.6.2	Identify the basic differences between vector and raster images.
SLO 9.F.1.6.3	Demonstrate basic knowledge of colour management (e.g., subtractive, additive colour, and spot).
SLO 9.F.1.6.4	Demonstrate basic knowledge of file management practices.
SLO 9.S.1.6.1	Navigate operating system and apply file management practices (e.g., naming, formats, hierarchies, and saving).
SLO 9.S.1.6.2	Use basic tools to create and manipulate raster and vector images for page layout.
SLO 9.S.1.6.3	Complete comprehensives.

Goal 2: Describe and apply **graphic print production processes**.

GLO 2.1: Describe and apply appropriate **pre-press techniques**.

SLO 9.F.2.1.1	Demonstrate basic knowledge of the print production process (e.g., pre-press, printing production, and post-press).

SLO 9.F.2.1.2	Demonstrate basic knowledge of the need for proofing prior to production.
SLO 9.S.2.1.1	Prepare a print-ready file for output.
SLO 9.S.2.1.2	Proof production layout.

GLO 2.2: Describe and apply commonly used **print production methods**.

SLO 9.F.2.2.1	Recognize various printing processes are used for different print products.
SLO 9.F.2.2.2	Identify the common systems (e.g., paper path, imaging, and delivery system) used in the print production process.
SLO 9.S.2.2.1	Apply printing production methods to create a project.

GLO 2.3: Describe and apply **post-press methods**.

| SLO 9.F.2.3.1 | Identify the commonly used post-press methods (e.g., bindery, finishing). |
| SLO 9.S.2.3.1 | Apply basic post-press operations (e.g., cutting, binding, padding, folding, stitching, and punching) to a product. |

Goal 3: Operate and maintain the **tools and equipment** used in the print production industry.

GLO 3.1: Operate computer **hardware and software**.

SLO 9.F.3.1.1	Identify commonly used tools and procedures in print production software.
SLO 9.S.3.1.1	Explore and apply commonly used functions within print production software.
SLO 9.S.3.1.2	Create basic projects using image-manipulation (e.g., raster, vector) and page-layout software related to the print production process.

GLO 3.2: Operate and maintain **print production tools and equipment**.

SLO 9.F.3.2.1	Explore different types of image carriers.
SLO 9.F.3.2.2	Identify measurement tools used in print production (e.g., line gauge, e-gauge).
SLO 9.S.3.2.1	Handle substrates for printing.
SLO 9.S.3.2.2	Assist in operation of a printing press.
SLO 9.S.3.2.3	Assist in clean-up of the work area and equipment.

GLO 3.3: Operate and maintain **post-press tools and equipment**.

SLO 9.F.3.3.1	Explore post-press equipment.
SLO 9.S.3.3.1	Apply appropriate post-press techniques as required.
SLO 9.S.3.3.2	Assist in clean-up of the work area and equipment.

GLO 3.4: Handle and store print production materials.

No applicable SLOs.

Goal 4: Describe and apply the transferable **cross-curricular** (e.g., math, literacy, and scientific) knowledge and skills as they apply to the print industries.

GLO 4.1: Apply **mathematical solutions** to design production problems (e.g., conversion, measurement, estimation, and accuracy).

SLO 9.F.4.1.1	Identify measurement units (e.g., points, picas, metric, and imperial) used in the print production process.
SLO 9.F.4.1.2	Identify common substrate sizes.
SLO 9.S.4.1.1	Set up page or image size using appropriate measuring units.
SLO 9.S.4.1.2	Measure fonts, dimensions, and substrates to appropriate production specifications.

GLO 4.2: **Read, write, interpret, and communicate information** related to the design and print process (e.g., proofreading, visual, and/or written communication).

SLO 9.F.4.2.1	Read and identify project specifications.
SLO 9.S.4.2.1	Apply project specifications.

GLO 4.3: Describe the **physical properties of materials** used in the print production process and factors in the physical environment (e.g., conductivity, pH, and viscosity).

SLO 9.F.4.3.1	Recognize various printing materials are used for different print products.

Goal 5: Consider the impact of **sustainability** as it pertains to the print industry.

GLO 5.1: Appreciate the implications of the printing process on the **environment**.

SLO 9.F.5.1.1	Identify the significance of recycling and reusing.

SLO 9.F.5.1.2	Identify the need for proper disposal of used chemicals and cleaning supplies.
SLO 9.S.5.1.1	Recycle paper and materials used in the print process.
SLO 9.S.5.1.2	Follow proper disposal process for used chemicals and cleaning supplies.

GLO 5.2: Describe the interaction between society and the print industry and its impact on **sustainability**.

SLO 9.F.5.2.1	Identify the print industry's social responsibility to human health and well-being.

GLO 5.3: Recognize the **economic benefits of sustainable practices** in the print industry.

SLO 9.F.5.3.1	Identify the scope of the print industry.

Goal 6: Explain the **evolution, technological progression, and emerging trends** in the print industry.

GLO 6.1: Appreciate the **historical significance, social impact, and continuing evolution** and development of the print industry (e.g., the evolution and progression of design styles and approaches).

SLO 9.F.6.1.1	Summarize the evolution of printing as a communication medium.
SLO 9.F.6.1.2	Identify the impact that style and technology have on the effectiveness of a design.

GLO 6.2: Demonstrate an awareness of the **evolution and progression of design styles and approaches**.

SLO 9.F.6.2.1	Demonstrate awareness of the impact emerging trends and technology have on the print industry.

GLO 6.3: Demonstrate awareness of the continuing **evolution of the print industry,** as well as its **emerging trends and future technologies**.

SLO 9.F.6.3.1	Demonstrate awareness of the impact emerging trends and technology have on the print industry.

Goal 7: Demonstrate knowledge of appropriate **health and safety** practices and the ability to recognize and apply them to maintain a safe workplace.

GLO 7.1: Describe and apply **health and safety rights, responsibilities, and procedures**.

SLO 9.P.7.1.1	Follow proper shop practices, which help protect the safety and health of students and staff (e.g., keep work area clean and organized, and avoid horseplay).
SLO 9.P.7.1.2	Identify emergency evacuation procedures.
SLO 9.P.7.1.3	Identify hazards (e.g., electrical safety, ergonomics, material handling, chemical, and sound) related to materials, processes, tools, and equipment used in print production.
SLO 9.P.7.1.4	Use appropriate aids to minimize risk of injury.
SLO 9.P.7.1.5	Demonstrate ergonomically correct procedures to avoid injury (e.g., stress, strain).
SLO 9.P.7.1.6	Locate first aid and eyewash station.
SLO 9.P.7.1.7	Use appropriate personal protective equipment (e.g., gloves, safety glasses or goggles, hearing protection, and apron).

GLO 7.2: Describe and follow **health and safety laws and regulations** as they relate to graphic print production.

SLO 9.P.7.2.1	Identify WHMIS symbols, labels, and terminology, and follow WHMIS guidelines.
SLO 9.P.7.2.2	Comply with health and safety legislation and practices.
SLO 9.P.7.2.3	Identify personal responsibility for health and safety.
SLO 9.P.7.2.4	Describe the reporting process for injuries.

Goal 8: Describe and follow the **ethical and legal standards** in the print industry.

GLO 8.1: Describe and follow current legal responsibilities and requirements when accessing **intellectual property** (e.g., copyright, trademarks).

SLO 9.P.8.1.1	Identify ownership rights of intellectual property.

GLO 8.2: Describe and follow **ethical trade practices**.

SLO 9.P.8.2.1	Design and print projects consistent with the local school code of conduct.

Goal 9: Demonstrate **employability skills** required in the graphic design and print industries.

GLO 9.1: Demonstrate **fundamental employability skills**.

SLO 9.P.9.1.1	Explain the importance of employability skills.
SLO 9.P.9.1.2	Ask questions to clarify written or verbal instructions.
SLO 9.P.9.1.3	Identify sources of information and resources for *trade area*.
SLO 9.P.9.1.4	Identify problem and follow problem-solving process.

GLO 9.2: Demonstrate **personal management skills**.

SLO 9.P.9.2.1	Actively participate in a positive manner.
SLO 9.P.9.2.2	Complete tasks within stated deadlines.
SLO 9.P.9.2.3	Demonstrate responsibility by being accountable for your actions.
SLO 9.P.9.2.4	Accept feedback, comments, and contributions from others.
SLO 9.P.9.2.5	Listen and respond in order to understand and learn.

GLO 9.3: Demonstrate **teamwork skills**.

SLO 9.P.9.3.1	Actively participate in the work of a group.
SLO 9.P.9.3.2	Participate in the classroom/shop activities.

Goal 10: Describe **career opportunities** in the print production industry.

GLO 10.1: Demonstrate awareness of **employment and post-secondary opportunities** related to print production.

SLO 9.P.10.1.1	Identify a variety of career and employment opportunities related to trades and technology.
SLO 9.P.10.1.2	Identify career and employment activities related to print production.
SLO 9.P.10.1.3	Demonstrate awareness of skills and knowledge required in print production.
SLO 9.P.10.1.4	Select *Introduction to Print Production* items for their Print Media Career Portfolio.