



9126

KNITWEAR DESIGN AND
CONSTRUCTION (11A)

30S/30E/30M

A Fashion Design and Technology Course

9126: KNITWEAR DESIGN AND CONSTRUCTION 30S/30E/30M

Course Description

This course gives an overview of knitwear techniques. Students study the anatomy, theory, and evolution of knitwear. Students will design and create knitwear garments incorporating techniques from the sewing and patternmaking portfolio created.

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

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

- SLO 11A.1.1.1: Demonstrate adherence to safe practices and procedures for facilities, processes, tools, and equipment.
- SLO 11A.1.1.2: Describe the common unsafe acts and unsafe conditions that cause accidents.
- SLO 11A.1.1.3: Describe how to handle unsafe acts and conditions.
- SLO 11A.1.1.4: Explain how to work safely in and around the fashion lab setting.
- SLO 11A.1.1.5: Demonstrate the proper use of sewing machines, sergers, and pressing equipment.
- SLO 11A.1.1.6: Demonstrate the proper use of cutting tools.
- SLO 11A.1.1.7: Prepare a job hazard safety analysis.
- SLO 11A.1.1.8: Describe the safety requirements for using powered and hand tools common to fashion.
- SLO 11A.1.1.9: Demonstrate and describe the procedures used to handle any chemicals.
- SLO 11A.1.1.10: Follow safety procedures when using domestic and industrial sewing machines and sergers.

Goal 2: Identify, select, describe, use, and manage **equipment, tools, and materials**.

GLO 2.1: Identify, select, describe, use, and manage **equipment, tools, and materials**.

- SLO 11A.2.1.1: Identify, select, use, and manage equipment, tools, and materials.
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Goal 3: Demonstrate the transferable cross-curricular knowledge and skills related to **reading, interpreting, and communicating** information relevant to fashion.

GLO 3.1: Demonstrate the cross-curricular knowledge and skills related to **reading, interpreting, and communicating** information relevant to fashion.

SLO 11A.3.1.1: Incorporate knowledge of anatomy involved in the design and construction of knitwear garments.

SLO 11A.3.1.2: Use terminology related to knitwear.

Goal 4: Demonstrate an awareness of **historical influences, technological progression, and emerging trends** as inspirational sources for design.

GLO 4.1: Describe **historical influences, technological progression, and emerging trends** as inspirational sources for design.

SLO 11A.4.1.1: Describe historical influences on the evolution of knitwear.

SLO 11A.4.1.2: Demonstrate an awareness of emerging trends in knitwear.

SLO 11A.4.1.3: Use computer-aided design (CAD) to draft basic blocks.

Goal 5: Demonstrate an understanding of the characteristics, properties, and end use of **textiles**.

GLO 5.1: Demonstrate an understanding of the characteristics, properties, and end use of **textiles**.

SLO 11A.5.1.1: Describe appropriate garment care specific to fibre content and fabric construction.

SLO 11A.5.1.2: Distinguish between woven and knit fabrics.

SLO 11A.5.1.3: Define and describe fabric, hand, hang, and nap as they refer to knit fabrics.

SLO 11A.5.1.4: Demonstrate an awareness of the development of synthetic fibres and its effect on design and construction.

Goal 6: Demonstrate an understanding of the **design process** through the implementation of various artistic renderings.

GLO 6.1: Apply cross-curricular knowledge and skills from **the arts** in design conceptualizations.

SLO 11A.6.1.1: Apply the elements and principles of design in artistic renderings.

SLO 11A.6.1.2: Recognize the fundamentals of design (including the elements and principles) in artistic renderings.

GLO 6.2: Select appropriate textiles for the end product.

SLO 11A.6.2.1: Select appropriate textiles for the end product.

SLO 11A.6.2.2: Explain which fibres are appropriate for specific end uses.

GLO 6.3: Illustrate and render design conceptualizations.

SLO 11A.6.3.1: Develop customized croquis to illustrate and render design conceptualizations.

Goal 7: Demonstrate an understanding of **garment patterning techniques**.

GLO 7.1: Demonstrate an understanding of the **flat pattern** method.

SLO 11A.7.1.1: Use the flat pattern method to create a knitwear top and a knitwear pant.

SLO 11A.7.1.2: Create a patternmaking portfolio that includes the following:

- colour blocking
- seam biases
- waistband
- sleeves
 - raglan
 - kimono
 - capped
 - flared
 - puff

SLO 11A.7.1.3: Demonstrate pattern labelling:

- symbols
 - grainlines
 - closures
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GLO 7.2: Demonstrate an understanding of **pattern drafting**.

SLO 11A.7.2.1: Define pattern drafting.

SLO 11A.7.2.2: Construct a drafted skirt block.

GLO 7.3: Demonstrate an understanding of the art of **draping**.

SLO 11A.7.3.1: Demonstrate various draping techniques and applications.

Goal 8: Demonstrate an understanding of **garment construction** based on industrial standards.

GLO 8.1: Create a **pattern layout**.

SLO 11A.8.1.1: Create a pattern layout.

GLO 8.2: Create a sewing **portfolio**.

SLO 11A.8.2.1: Demonstrate the skills required to create a sewing portfolio that includes the following:

- hem band
 - cover stitch
 - stretch stitch
 - rolled hem
 - lettuce
 - woolly nylon
 - elastics
 - shirring
 - hand sewing
 - blanket stitch
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GLO 8.3: Construct a **muslin**.

No applicable SLOs.

GLO 8.4: Construct a **final garment**.

SLO 11A.8.4.1: Construct a final garment incorporating skills from sewing portfolio and patternmaking portfolio.

GLO 8.5: Demonstrate **finishing** of garments.

SLO 11A.8.5.1: Demonstrate care of knitwear.

SLO 11A.8.5.2: Demonstrate finishing of a final garment including the following:

- steaming
- pressing
- trimming threads

Goal 9: Demonstrate an understanding of the application of **embellishing techniques** to the surface of textiles.

GLO 9.1: Demonstrate an understanding of the application of **embellishing techniques** to the surface of textiles.

No applicable SLOs.

Goal 10: Demonstrate an awareness of **sustainability**.

GLO 10.1: Demonstrate an understanding of **human sustainability**.

SLO 11A.10.1.1: Demonstrate an awareness of the purpose and benefits of knitwear to consumers.

SLO 11A.10.1.2: Demonstrate an understanding of the socio-psychological aspects of knitwear.

SLO 11A.10.1.3: Demonstrate an awareness of long-term health concerns found in the textile industry.

GLO 10.2: Describe the fashion industry's **sustainability practices and impact on the environment**.

SLO 11A.10.2.1: Transform or create a garment or accessory with recycled garments or material.

GLO 10.3: Describe **sustainable business practices** in the fashion industry.

No applicable SLOs.

Goal 11: Demonstrate an awareness of **ethical and legal standards.**

GLO 11.1: Demonstrate an awareness of **ethical and legal standards.**

SLO 11A.11.1.1: Demonstrate an awareness of legal standards in the textile industry.

SLO 11A.11.1.2: Demonstrate an understanding of the ethical and legal concerns regarding the use of copyrighted material.

Goal 12: Describe and demonstrate other transferable **cross-curricular** knowledge and skills relevant to fashion.

GLO 12.1: Apply knowledge and skills from **mathematics** relevant to fashion.

SLO 11A.12.1.1: Demonstrate an understanding of the geometric requirements in pattern manipulation and fashion renderings.

SLO 11A.12.1.2: Demonstrate skills in manipulating fractions, decimals, ratios, and percentages, and converting to and from metric and standard measurements.

GLO 12.2: Apply knowledge and skills from **other subject areas** (physical education/health education, psychology, social studies) relevant to fashion.

SLO 11A.12.2.1: Demonstrate an awareness of the relationship between fashion and self-esteem.

Goal 13: Describe and demonstrate **employability skills.**

GLO 13.1: Demonstrate fundamental **employability skills.**

SLO 11A.13.1.1: Demonstrate regular and punctual attendance.

SLO 11A.13.1.2: Demonstrate the ability to communicate respectfully and effectively with teachers, supervisors, co-workers, and students.

SLO 11A.13.1.3: Demonstrate accountability by taking responsibility for own actions.

SLO 11A.13.1.4: Demonstrate adaptability, initiative, and effort.

SLO 11A.13.1.5: Demonstrate teamwork skills.

SLO 11A.13.1.6: Demonstrate the ability to stay on task and effectively use time in class and work environments.

SLO 11A.13.1.7: Demonstrate the responsible use of wireless communication devices.

SLO 11A.13.1.8: Demonstrate the ability to meet deadlines.

GLO 13.2: Demonstrate an awareness of **cultural proficiency** and its importance in the workplace.

SLO 11A.13.2.1: Demonstrate an awareness of potentially sensitive or offensive fashion.

GLO 13.3: Demonstrate an understanding of **business operations** within the fashion industry.

SLO 11A.13.3.1: Demonstrate an awareness of the requirements for companies to generate profits in order to continue operating.

GLO 13.4: Demonstrate **critical thinking skills**.

SLO 11A.13.4.1: Demonstrate critical thinking skills during the design and construction processes.

Goal 14: Demonstrate an understanding of the **fashion industry**.

GLO 14.1: Describe the **scope** of the **fashion industry**.

SLO 11A.14.1.1: Demonstrate an awareness of the place of fashion in the Canadian economy.

GLO 14.2: Demonstrate an awareness of **educational and career opportunities**, as well as **industry associations**.

SLO 11A.14.2.1: Demonstrate an awareness of career opportunities in the textile industry.

GLO 14.3: Demonstrate an understanding of **working conditions** in the fashion industry.

SLO 11A.14.3.1: Demonstrate an awareness of the long-term health concerns related to unsafe working practices in the fashion industry.
