



MERCER
COUNTY COMMUNITY COLLEGE

COURSE OUTLINE

Course Number FAS 130	Course Title Introduction to Textiles for Fashion	Credits 3 credits
Hours: Lecture/Lab/Other 3 lecture hours	Co- or Pre-requisite Pre or Co: ENG101	Implementation Semester & Year Fall 2022

Catalog description:

Develops knowledge of how textiles are produced and how appropriate performance characteristics are incorporated into materials and products. Students make informed decisions regarding materials and products to communicate effectively with team members in the workplace, suppliers, contractors, and buyers. Careers in the global textile industry are discussed.

General Education Category:
Not GenEd

Course coordinator:
Kay Lindsay, Assistant Professor of Fashion
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Required texts & Other materials:

J.J. Pizzuto's Fabric Science, 10th Ed., Allen C. Cohen, Ingrid Johnson, 2011. ISBN-10: 1609013808

- Digital files, weblinks Videos, DVDs, CDs, etc as available
- Text(s) on Reserve in College Library

A complete searchable archive of American Vogue, from the first issue in 1892 to the current month, reproduced in high-resolution color page images. Every page, advertisement, cover, and fold-out has been included, with indexing enabling searching to find images by garment type, designer, and brand names.

<http://search.proquest.com/vogue/index?accountid=40611>

Course Student Learning Outcomes (SLO):

Upon successful completion of this course the student will be able to:

1. Demonstrate an understanding of textile terminology. [Supports ILG #1, 3, 9 & 11; PLO # 4 &7]
2. Analyze the fiber identification through visual inspection, burn test, microscopy, and solubility tests. [Supports ILG #1, 3, 9 & 11; PLO # 4 &7]
3. Identify textile fibers and their properties of classification. [Supports ILG #1, 3, 9 & 11; PLO # 4 &7]
4. Evaluate natural cellulosic fibers with natural protein fibers and their products and methods of finishing. [Supports ILG #1, 3, 9 & 11; PLO # 4 &7]

5. Compare and contrast fiber processing steps in yarn preparation. [Supports ILG #1, 3, 9 & 11; PLO # 4 &7]
6. Explain the aesthetic finishes applied to fabrics. [Supports ILG #1, 3, 9 & 11; PLO # 4 &7]
7. Demonstrate by writing an essay on the fabric dyeing and printing processes and the various environmental and sustainability concerns in the industry. [Supports ILG #1, 3, 9 & 11; PLO # 4 &7]
8. Identify careers in textiles from sourcing, product development, production, design, merchandising, marketing, entrepreneurs to government and other related careers. [Supports ILG #1, 3, 9 & 11; PLO # 4 &7]

Course-specific Institutional Learning Goals (ILG)

Institutional Learning Goal 1. Written and Oral Communication in English. Students will communicate effectively in both speech and writing.

Institutional Learning Goal 3. Science. Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.

Institutional Learning Goal 9. Ethical Reasoning and Action. Students will understand ethical frameworks, issues, and situations.

Institutional Learning Goal 11. Critical Thinking: Students will use critical thinking skills to understand, analyze, or apply information or solve problems.

Program Learning Outcomes for (PLO)

1. Develop foundation art skills to apply to fashion/apparel design development.
2. Develop and present ideas effectively in both written and oral formats.
3. Understand current trends in the fashion industry from a global perspective.
4. Demonstrate knowledge of a wide range of textiles and manufacturing processes.
5. Apply computational skills relevant to the fashion and retail industries.
6. Demonstrate knowledge of the fashion industry from concept to consumer.
7. Develop an appreciation for style and product quality.
8. Communicate and present ideas in both written and oral formats.
9. Understand how the global economy and international events affect domestic business decisions.

Units of study in detail – Unit Student Learning Outcomes:

Unit I Introduction to Textiles [Supports Course SLOs # 1-8]

Learning Objectives

The student will be able to:

1. Recognize the diversity in textiles and textile products.
2. Review case studies of product development from a textile perspective.
3. Analyze textile fibers and their properties including natural cellulosic fibers and natural protein
4. Understand the value of developing a professional knowledge of textiles.
5. Recognize how textile apparel, interior, and technical products enhance the quality of life.
6. Discuss his/her work during a critique and critically evaluate and justify his/her own

Unit II [Textile Fibers and Product Development] [Supports Course SLOs # 1-8]

Learning Objectives

The student will be able to:

1. Identify information sources used in product development.
2. Apply the serviceability components to textiles and textile products.
3. Introducing environmental concerns and sustainability concepts related to the global textile industry.
4. Link product serviceability with textile performance.
5. Research target market needs and expectations.
6. Analyze informational sources used in product development.
7. Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice

Unit III [Manufactured Regenerated Fibers] [Supports Course SLOs # 1-8]

Learning Objectives

The student will be able to:

1. Identify commonly used fibers through simple identification procedures.
2. Relate textile fiber performance to end-use requirements and expectations.
3. Utilize textile terminology when discussing manufactured fibers, natural cellulosic fibers and protein fibers.
4. Understand the relationships between fiber structure and fiber properties.
5. Analyze characteristics and performance unique to cellulosic fibers and protein fibers.
6. Review processing steps to producing cellulosic fibers and protein fibers and market needs.
7. Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice

Unit IV [Fiber Processing] [Supports Course SLOs # 1-8]

Learning Objectives

The student will be able to:

1. Understand the manufacturing process of fibers
2. Identify the differences and similarities between natural and manufactured fibers.
3. Review how fibers are modified and the resulting changes in product performance
4. Analyze processes used to produce manufactured regenerated fibers.
5. Describe the properties of rayon, lyocell, acetate, and other regenerated fibers and their end uses.
6. Discover why fibers are engineered for specific end uses.
7. Recognize processes used in most synthetic fibers and their production.
8. Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice

Unit V [Care of Textiles and Other Issues] [Supports Course SLOs # 1-8]

Learning Objectives

The student will be able to:

1. Differentiate among special-use fibers based on their elastomeric and protective characteristics.
2. Recognize the importance of special-use fibers in apparel, interior, and technical products. Integrate properties of special-use fibers and their uses.
3. Understand the process to produce yarns from filament and staple fibers and relate their end use performance to the quality of the yarn.
4. Review fiber blends and their effect on product performance.
5. Utilize textile terminology.
6. Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice

Unit VI [Fabrication and Other Issues] [Supports Course SLOs # 1-8]

Learning Objectives

The student will be able to:

1. Identify the production and processes used to produce fancy woven fabrics.
2. Differentiate between types of weaving fabrics, knot and knit fabrics and other fabrication methods.
3. List the general steps and sequences involved in fabric finishing.
4. Recognize how finishing affects fabric cost, quality, performance, and appearance.
5. Relate finishing to fabric quality, end-use suitability, and product performance.
6. Explain the theory of detergency and related care requirements to a product's fiber, yarn, fabrication, finish, dye, and construction.
7. Understand the laws and regulations related to textiles and textile products in labeling.
8. Recognize how textiles and textiles affect the global environment.
9. Identify diverse career options requiring knowledge of textiles and textile classifications.
10. Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice
- 11.
- 12.
- 13.

Evaluation of student learning: [Evaluates SLOs # 1 –]

Achievement of the course objectives will be evaluated by the following tools:

- Two completed course assignments to be done at home and uploaded for review by the instructor.
- Participation in weekly Discussion Posts on Blackboard
- Three timed Quizzes based on Units of Study

	% Of Grade
Participation with all weekly labs and discussions	20%
Chapter Challenges	20%
Midterm	20%
Swatch Kits Final Submission	20%
Final Project	10%
Fashion Show Participation	10%
Total	100%