

El Paso Community College

Syllabus

Part II

Official Course Description

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| SUBJECT AREA | <u>Fashion Technology</u> |
| COURSE RUBRIC AND NUMBER | <u>FSHN 1301</u> |
| COURSE TITLE | <u>Textiles</u> |
| COURSE CREDIT HOURS | <u>3 2 :</u> Credits Lec Lab |

I. Catalog Description

Studies textiles with emphasis on factors that affect the hand, appearance, and performance in clothing use. Examines the properties of natural and man-made fibers, how yarn is formed, methods of production, and the properties of a wide variety of fabrics. Provides an application of textiles used in the apparel industry. **(2:2). Lab fee.**

II. Course Objectives

- A. Unit I. The Textile Industry
1. Analyze the importance of fabric usage to the textile industry.
 2. Identify the various segments of the textile industry.
 3. Follow the channels of distribution of textile products.
 4. Use analytical skills to evaluate careers in the textile industry.
 5. Use key terms related to textiles.
 6. Research trends and current technologies in textiles.
- B. Unit II. Fiber Identification
1. Describe how fiber structure relates to fiber properties and characteristics.
 2. Identify the sources of textile fibers.
 3. Use textile fiber terminology correctly.
 4. Relate the general relationship between the properties of fibers and textile materials.
 5. Identify major fibers by burning and other tests.
- C. Unit III. Identification and Characterization of Textiles
1. Classify textile fibers.
 2. Match fibers and their properties to end use requirements.
 3. Identify trademarks, logos, and names used to promote the use of textile fibers.
- D. Unit IV. Evaluation of Yarns and Threads
1. Describe the effect of various yarns on the properties of fabric.
 2. Analyze various yarn types, including their properties and end uses.
 3. Use systems for determining yarn sizes.
 4. Discuss the types, uses, and optimum applications of various sewing threads.

- E. Unit V. Woven Textiles
1. Explain how woven fabrics are produced.
 2. Explain why woven fabrics look and perform the way they do.
 3. Identify various weaves and their distinguishing characteristics.
 4. Identify various well-known woven fabrics.
 5. Use terminology related to wovens.
- F. Unit VI. Knitted Textiles
1. Identify knitted textiles.
 2. Explain why knitted fabrics look and perform the way they do.
 3. Identify various knit structures and their distinguishing characteristics.
 4. Explain the important differences between knitted and woven fabrics.
 5. Use terminology related to knits.
- G. Unit VII. Nonwoven Textiles
1. Explain how textile materials can be constructed by methods other than weaving and knitting.
 2. Identify the distinguishing characteristics of nonwoven textiles.
 3. Identify the end uses of nonwoven textiles.
 4. Use terminology related to knits.
- H. Unit VIII. Textile Dyeing and Printing Methods
1. Discuss the differences between dyes and pigments.
 2. Classify the effects of different dye classes on various textile fibers.
 3. Explain the dyeing process and the reasons for using various stages of dyeing.
 4. Describe the principles of applying printed designs to fabrics and utilize product development software and plotters to create original textiles.
 5. Compare the various types of printing methods.
 6. Compare colorfastness quality between dyed and printed fabrics.
 7. Use terminology related to dyeing and printing.
 8. Research and develop creative methods of textile design.
- I. Unit IX. Textiles Finishes and Pre-Treatments
1. Analyze the various reasons for the finishing of textiles.
 2. Discuss the differences between aesthetic and functional finishes.
 3. Classify specific textile finishing processes and their effects on fabrics.
 4. Describe adverse effects and compromises of textile finishes.
 5. Use terminology related to textile finishing.
- J. Unit X. Textile Care
1. Analyze the effects of laundering and dry cleaning on fabrics and determine appropriate textile care.
 2. Describe the principles of soil removal.
 3. Classify soiling of textiles into its various types.
 4. Use terminology related to textile finishing.
 5. Correlate textile care to target market.
- K. Unit XI. Fabric Analysis
1. Analyze the structure of a fabric.
 2. Correlate fabric structures to specific end-uses.
 3. Express related data in standardized, commercially acceptable terms.

- L. Unit XII. Fabric Performance Testing
1. Specify types of textile testing.
 2. Explain the reasons for textile testing.
 3. Explain how fabric end use suitability is determined.
 4. Use terminology related to textile performance testing.
- M. Unit XIII. Textile Laws and Regulations
1. Evaluate the need for textile regulations.
 2. Cite the specifics of the federal laws relating to fibers, textiles, and textile products.
 3. Evaluate the rationale of these laws.
 4. Interpret labels on textile products correctly.

III. THECB Learning Outcomes (WECM)

1. Distinguish between natural and man-made fibers.
2. Identify the types of yarns.
3. Explain construction methods.
4. Examine dyeing methods.
5. Differentiate printing techniques.
6. Describe finishing techniques.
7. Analyze textile applications for the design, manufacturing, marketing, and care of fashion merchandise.

IV. Evaluation

A. Grade percentages for determining course grades may be devised by the individual instructor.

B. Grading Scale:

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| A = 93 – 100 | I = INCOMPLETE |
| B = 83 - 92 | W = WITHDRAWN |
| C = 73 - 82 | F = BELOW 68 |
| D = 68 - 72 | |

V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.