El Paso Community College Syllabus Part II Official Course Description

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

Revised by Discipline: Fall 2015 (next revision in 3 years)

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.
- 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:

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.

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