

FASH A110: APPLIED TEXTILES AND DESIGN

Item	Value
Curriculum Committee Approval Date	04/08/2020
Top Code	130300 - Fashion
Units	3 Total Units
Hours	54 Total Hours (Lecture Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S)

Course Description

Selection, use, care, and performance standards for textile products for fashion apparel and interior textiles. Transfer Credit: CSU; UC.

Course Level Student Learning Outcome(s)

1. Understand and apply current research methods using the scientific method as they relate to innovation in textiles and textiles science.
2. Analyze natural and manufactured textile fibers by physical, mechanical, chemical, and environmental properties. Apply this knowledge to determine use, care, serviceability, properties, molecular structures and chemical make up of textile fibers.
3. Analyze textiles according to fabric structure, print/design technique, and fabric finish to assess serviceability to the customer.

Course Objectives

- 1. Define and use vocabulary terms describing textile products in terms of serviceability.
- 2. Identify the major textile fibers.
- 3. List characteristics of textile fibers in performance terms.
- 4. Select textile products utilizing performance characteristics and consumer serviceability requirements.
- 5. Identify sources of current research information about textile products.
- 6. Perform a textile experiment using the scientific method and present it to the class.
- 7. Write a research paper on a textile-related subject using current research and present to the class.
- 8. Identify yarn and fabric structures of textile products.
- 9. Identify design and color applications for textile products.
- 10. Identify fabric finishes and their contribution to the serviceability of textile products.
- 11. Identify and utilize proper care techniques for textile products.
- 12. Research laws and legislation governing textile products for apparel and interior textiles.

Lecture Content

Introduction Objectives of the course Class Procedures Course Requirements Supplies and Materials Lab Conduct and Behavior Textile Notebooks Textile Terminology Serviceability and End Use Comfort Safety Care Appearance Durability Aesthetics Legislation and labeling Textile Fibers, Properties, Molecular Structure and Chemical Make Up Protein Fibers Natural Cellulosic Fibers Manufactured Cellulosic Fibers Inorganic, Metallic, and Carbon Fibers Nylon and Aramid Fibers Polyester Fibers Acrylic and Modacrylic Fibers Olefin Fibers Elastomeric Fibers Other Manufactured and Bicomponent Fibers Making Fibers into Yarns Yarn Construction Types of Yarns Fabric Structures Woven Fabrics Knitted Fabrics Speciality Construction Design and Color in Textiles Dye Methods Chemical Reactions with Dye Stuffs and Fiber Chemistry. Textile Printing and Design Cultural Aspects of Textile Products Textile Finishes Routine and Mechanical Finishes Chemical Finishes Innovation In Finishes The Care of Textile Products Laundry Procedures Based on Fiber Properties Dry Cleaning Textile Preservation Textile Labeling and Legislation Textile Fiber Identification Act Fur Products Labeling Act Wool Products Labeling Act Flammability Legislation Sleepwear Upholstered Furniture Care Labeling

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- DE Online Lecture (02X)

Instructional Techniques

Online lecture, assignments, in class demonstration, discussion boards, email communication, critique (instructor/student) multimedia presentations, collaborative projects and student presentation.

Reading Assignments

Assigned reading from the text. 2-3 hours per week.

Writing Assignments

1. Write descriptions of textile products. 2. Write a research paper on a textile-related subject and present to the class. 3. Perform a textile experiment and present to the class. 4. Select textile products on the basis of serviceability requirements. 5. Identify fabrics used for fashion apparel and interior furnishings. 2-3 hours per week.

Out-of-class Assignments

Students will complete textile experiments and homework, research projects, and prepare for tests and final exam. 2-3 hours per week

Demonstration of Critical Thinking

Quizzes, skill demonstration, weekly homework, problem solving exercises, exams, oral presentation, and student projects.

Required Writing, Problem Solving, Skills Demonstration

1. Write descriptions of textile products. 2. Write a research paper on a textile-related subject and present to the class. 3. Perform a textile experiment and present to the class. 4. Select textile products on the basis of serviceability requirements. 5. Identify fabrics used for fashion apparel and interior furnishings.

Eligible Disciplines

Family and consumer and studies/home economics: Masters degree in family and consumer studies, life management/home economics, or home economics education OR bachelors degree in any of the above AND

masters degree in child development, early childhood education, human development, gerontology, fashion, clothing and textiles, housing/interior design, foods/nutrition, or dietetics and food administration OR the equivalent. Masters degree required. Fashion and related technologies (merchandising, design, production): Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.

Textbooks Resources

1. Required Shaw, Anugrah. I Textiles, current ed. New York: Invista, 2015 Rationale: The material in the text provides a historical reference in the study of textiles. Updates in the field are covered in the lecture and research assignments. Fairchild is considering publishing a new edition as of an email on 4/22/2016.