COURSE INFORMATION FORM

DISCIPLINE: Apparel and Textile
COURSE TITLE: Textiles
CR.HR: 3  LECT HR: 3  LAB HR: 0  CLIN/INTERN HR: 0  CLOCK HR: 0

CATALOG DESCRIPTION
Introduction to fibers, textiles and all aspects of the textile manufacturing process.

PREREQUISITES

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Differentiate and describe the various natural and man-made fibers.
2. Explain the development of yarns and weaves affect fashion and textile production.
3. Define textile classification, specific properties and appropriate end uses.
4. Apply the above terminology to fashion, household and industrial fabrics.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

Outcomes   ESO

3. Life-Long Learning:
   C. Attributes of an Awareness of the Convergence of Knowledge
   2. Apply learned skills to real world interactions   (1,2,3)
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

Demonstrate ability to communicate effectively in oral, written and visual forms
• Recognize and use appropriate professional terminology

Recognition of current ethical and professional issues in textiles and apparel industries.
• Demonstrate knowledge of ethical issues related to labor, global trade, and free/fair trade.
• Demonstrate knowledge of environmental issues related to dyeing, weaving and manufacturing of apparel product.

Demonstrate ability to work effectively in groups and teams.
• Develop effective skills in brainstorming and identification of relevant ideas.
• Share responsibility and delegate duties. Demonstrate accountability to the group/team.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Individual assignments (1, 3)
2. Written exams (1, 2, 3, 4)
3. Fabric portfolio (1, 3, 4)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Introduction

II. Fibers

III. Textile fibers and their properties
   A. Fiber properties
   B. Serviceability
   C. Fiber identification

IV. Natural cellulosic fibers
   A. A. Seed fibers
   B. B. Bast fibers
   C. C. Leaf fibers
   D. D. Other cellulosic materials

V. Natural protein fibers
   A. Wool
   B. Specialty wools
   C. Silk

VI. The fiber manufacturing process

VII. Manufactured regenerated fibers
   A. Rayon
   B. Lyocell
   C. Acetate

VIII. Synthetic fibers
   A. Nylon
   B. Polyester
   C. Olefin
   D. Acrylic
   E. Modacrylic

IX. Special use fibers
   A. A. Rubber, spandex
   B. Other special use fibers

X. Yarns
   A. Yarn processing
   B. Yarn classification

XI. Fabrication
   A. Basic weaves and fabrics
   B. Characteristics
   C. Fancy weaves
   D. Knit fabrics
E. Fabrics from solutions

XII. Finishes
   A. Dyes and printing
   B. Fabric finishes

XIII. Care of textiles

XIV. Legal and Environmental concerns

XV. Career exploration