

**University of North Alabama**  
**Spring 2012**

**HES 341W**

**Professor:** Jane Wilson

**Credit:** 3 hours

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**Course Description:** **Textiles and Materials** - Consumer oriented study of textiles emphasizing fibers, yarns, fabric, dyeing, printing, finishing, care, and serviceability for apparel and the interior environment. Gain knowledge of testing standards and legislation concerning apparel and interiors.

**Course Text:** Kadopha, Langford, Hollen, and Saddler, Textiles, 1998, 8<sup>th</sup> Edition; Fairchild, Fabric Science Swatch Kit.

For students in a Teacher Education Program:  
College LiveText edu solutions membership

**Course Objectives:**

1. Develop an understanding of and an appreciation of textiles from a historic, cultural, aesthetic and fashion perspective.
2. Develop an understanding of methods for acquiring, using, and caring for clothing and textile products in relation to values, goals, lifestyles and resources. **SDE (7) (a), 1 (i)**
3. Develop an understanding of processes of commercial production and maintenance processes in clothing and textile industries. **SDE (7) (a), 1(ii)**
4. Analyze the cultural, social, psychological, and economic factors that influence the acquisition and use of clothing and textile products. **SDE (7) (a), 2(ii), I**
5. Evaluate the properties and characteristics of textiles with respect to fibers, yarns, variations, fabric design, construction, and finishes in relation to intended use. **SDE (7) (a), 2(ii), III**
6. Develop an understanding of principles of safety in the use of consumer and industrial clothing and textile products. **SDE (7) (a), 2(ii), IV**
7. Develop an understanding of the role of research and legislation in improving standards for clothing and textile products. **SDE (7) (a), 2(ii), V**

8. Develop an understanding of the impact of consumer participation in the improvement of standards for goods and services through research and legislation in the field of textiles. **SDE (7) (a), 2(iii), VIII**
  
9. Develop knowledge of designing, selecting, and maintaining clothing and textile products in housing, home furnishings and equipment in relation and values, goals, resources and laws. **ALS/R (1) (a)1**
  
10. To develop an understanding of proper textile laboratory facilities and safety procedures.

For the Family and Consumer Sciences students the following are PAT Standards and Assessment consistent with the Alabama Course of Study.

**PAT Standards & Assessment:**

| <b>Standard</b>   | <b>Assessment</b>                      |
|---|--|
| 290-3-3-.26(1) (a)8.(iii) Knowledge of the business practices associated with fashion design.   | Exams; Term Paper; Abstracts; Notebook |
| 290-3-3-.26(1) (a)8.(iv) Knowledge of the business practices associated with fashion merchandising.   | Exams; Term Paper; Abstracts; Notebook |
| 290-3-3-.26(1) (a)10.(ii) Knowledge of technology tools, technology information, and technological advancements in the areas of fashion, fashion design, and fashion merchandising. | Exams; Term Paper; Abstracts; Notebook |
| 290-3-3-.26(1) (a)11.(ii) Knowledge of professional associations and credentials in the areas of fashion, fashion design, and fashion merchandising.                                | Exams; Term Paper; Abstracts; Notebook |
| 290-3-3-.26(1) (b)2.(iii) Ability to develop skills used to provide services to clients in the areas of fashion design.   | Exams; Term Paper; Abstracts; Notebook |
| 290-3-3-.26(1) (b)2.(iv) Ability to develop skills used to provide services to clients in the areas of fashion merchandising.   | Exams; Term Paper; Abstracts; Notebook |

**Content:**

Section I

Introduction

Selection of Textile Products for Consumer Use

## Section II - Fibers

- Textile Fibers and Their Properties
- Natural Cellulosic Fibers
- Natural Protein Fibers
- The Fiber Manufacturing Process
- Manufactured Fibers
- Synthetic Fibers
- Special Use Fibers

## Section III - Yarns

- Yarn Processing
- Yarn Classification

## Section IV - Fabrication

- Basic Weavers and Fabrics
- Fancy Weaves and Fabrics
- Knitting and Knit Fabrics
- Other Fabrication Methods

## Section V - Finishing

- Finishing: An Overview
- Aesthetic Finishes
- Special-Purpose Finishes
- Dyeing and Printing

## Section VI - Other Issues Related to Textiles

- Care of Textile Products
- Legal and Environmental Issues
- Career Exploration

### **Course Requirements:**

1. Students will select a topic, research it and develop a term paper (5-7 Pages in length) on an area of special interest to the student. The project will be a document for your portfolio. The student will choose a topic and develop a bibliography consisting of four sources. Topics will be discussed and approved by the instructor. **Proper term paper form should be followed. (MLA format)**
2. Students will be required to maintain the 3-ring looseleaf textile notebook (Swatch notebook) throughout the semester. All materials should be arranged by fabric swatch number. Handouts distributed in class should be included in this notebook.
3. Students will submit **four** typed abstracts highlighting a new development in the textile industry. One abstract will also be presented orally.

4. Exams will be given to assess the knowledge of course content.

Family and Consumer Science education students may be required to submit projects for assessment in LiveText.

**Grading Procedure:**

Points will be assigned for the following:

|                        |     |
|------------------------|-----|
| Term paper             | 25  |
| Textile Notebook       | 25  |
| Exams (4 @ 100 Pts.)   | 400 |
| Abstracts (4 @ 5 pts.) | 20  |

Letter grades will be based on the following percentages:

|         |           |      |
|---------|-----------|------|
| A = 90  | -         | 100% |
| B = 80  | -         | 89%  |
| C = 70  | -         | 79%  |
| D = 64% | and below |      |

To apply credit for this course to a Teacher Education program, the candidate must earn a C or better.

See the policies of Human Environmental Sciences Department.