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Course Outline for INTD 55

INTRODUCTION TO TEXTILES

Effective: Fall 2000

I. CATALOG DESCRIPTION:

INTD 55 — INTRODUCTION TO TEXTILES — 3.00 units

The textile industry and its effects on the apparel and home furnishings markets. Fiber identification, yarn and fabric construction, and decoration. Emphasis on consumer information, fabric performance, care and labeling, and legal responsibilities of the industry.

3.00 Units Lecture

Grading Methods:

Letter Grade

Discipline:

	<u>MIN</u>
Lecture Hours:	54.00
Total Hours:	54.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. identify specific fiber characteristics, structure, and properties;
- B. understand the expected performance of natural and synthetic fibers and their properties and the necessity of labeling;
- C. understand the problems relating to the use and care of fabric finishes;
- D. be aware of new developments and the ensuing effect on fashion
 - 1. stretch fabrics
 - 2. warp and weft knits
 - 3. laminated and bonded fabrics
 - 4. coated fabrics;
- E. recognize fabric weaves and other construction;
- F. understand how designs are applied through dyeing and printing;
- G. know the important fabric resources and the role they play in the total fashion manufacturing process and in fashion merchandising.

V. CONTENT:

- A. Textile fibers
 - 1. identification through solubility and burning test and microscopic examination of fibers
 - 2. basic concepts in methods of producing man-made fibers
 - 3. synthetic fiber classifications
 - 4. natural fiber classifications
- B. Yarn construction: simple, complex, and novelty yards
- C. Fabric construction
 - 1. woven: recognition of basic and complex constructions
 - 2. knits: warp, weft, and novelty knits
 - 3. minor fabric constructions: bonded, laminated, malimo, etc.
- D. Fabric finishes
 - 1. soil and shrink resistance
 - 2. environmental and biological resistance
 - 3. routine finishes
- E. Applied surface design
 - 1. embossed, embroidered, flocked, etc.
 - 2. glued, glazed, lacquered, etc.
 - 3. pleated, quilted, moired, puckered, crinkled
- F. Fabric dyeing and printing
 - 1. processes: fiber, yarn and fabric dyeing
 - 2. textile printing: roller, silk screen, heat transfer
 - 3. design trends
- G. Fabric performance - common problems encountered by consumers
 - 1. serviceability of apparel
 - 2. recommended care and wearability standards

- 3. types of damage and responsibility
- 4. permanent care problems
- 5. care labeling
- H. Legal constraints on textile and apparel manufacturers
 - 1. Flammability Act and its affect on manufacturers
 - 2. toxicity problems and quality control
 - 3. environmental concerns
- I. Fabric resources and the marketing of fabrics to the garment industry
- J. International Fabricare Institute - service to the drycleaning industry. Review publication on common problems in textile use.
- K. Update on technology and fabric trends

VI. METHODS OF INSTRUCTION:

- A. **Research** - in trade publications
- B. **Lecture** -
- C. **Discussion** -

VII. TYPICAL ASSIGNMENTS:

VIII. EVALUATION:

- A. **Methods**
- B. **Frequency**

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IX. TYPICAL TEXTS:

- 1. P. Tortora *Understanding Textiles.*, MacMillan, 0.

X. OTHER MATERIALS REQUIRED OF STUDENTS: