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Course Outline for INTD 10
INTRODUCTION TO TEXTILES
Effective: Fall 2018

I. CATALOG DESCRIPTION:

INTD 10 — 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 or P/NP

Discipline:

- Interior Design

	MIN
Lecture Hours:	54.00
Expected Outside of Class Hours:	108.00
Total Hours:	162.00

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. Review the expected performance of natural and synthetic fibers and their properties and the necessity of labeling;
- C. Assess the use and care of fabric finishes
- D. Identify new developments and the ensuing effects on textiles for interior and outdoor use
- E. Learn the importance of warp and weft in textile weave design
- F. Identify laminated and bonded fabrics
- G. Recognize fabric weaves and other construction
- H. Evaluate how designs are applied through dyeing and printing
- I. Identify the important textile resources and the roles they play in the overall textile manufacturing process and 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
 1. Simple
 2. Complex
 3. Novelty yarns
- C. Fabric construction
 1. Woven
 2. Recognition of basic and complex constructions
 - a. Warp
 - b. Weft
 3. Knits
 4. Minor fabric constructions
 - a. Bonded
 - b. Laminated
 - c. Malimo
- D. Fabric finishes
 1. Soil and shrink resistance
 2. Environmental and biological resistance
 3. Routine finishes

- E. Applied surface design treatments
 - 1. Embossed
 - 2. Embroidered
 - 3. Flocked
 - 4. Glued
 - 5. Glazed
 - 6. Lacquered
 - 7. Pleated
 - 8. Quilted
 - 9. Moired
 - 10. Puckered
 - 11. Crinkled
- F. Fabric dyeing and printing
 - 1. Processes
 - a. Fiber
 - b. Yarn
 - c. Fabric dyeing
 - 2. Textile printing
 - a. Roller
 - b. Silk screen
 - c. Heat transfer
 - 3. Design trends
- G. Fabric performance - common problems encountered by consumers
 - 1. Serviceability
 - 2. Recommended care and wearability standards
 - 3. Types of damage and responsibility
 - 4. Permanent care problems
 - 5. Care labeling
- H. Legal constraints on textile 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 design industry
- J. International Fabricare Institute
 - 1. Service to the drycleaning industry
 - 2. Review publication on common problems in textile use
- K. Update on technology and fabric trends

VI. METHODS OF INSTRUCTION:

- A. **Lecture** -
- B. **Discussion** -
- C. **Guest Lecturers** -
- D. **Field Trips** -
- E. **Research** - in trade publications

VII. TYPICAL ASSIGNMENTS:

- A. Create on graph paper the 5 different basic weave patterns used in textile
- B. Select two different printed patterns and describe them in terms of the design elements and their weave and type of texture.
- C. Design a drapery window treatment calculating the measurements, specifications and pricing. Present the rendered treatment in a setting of complementary furnishings.
- D. Develop a room scheme with all the textiles to be coordinated. List the specifications, including pricing of all textiles. Present on a board or in a spec binder.

VIII. EVALUATION:

- A. **Methods**
 - 1. Exams/Tests
 - 2. Quizzes
 - 3. Projects
 - 4. Field Trips
 - 5. Class Participation
 - 6. Home Work
- B. **Frequency**
 - 1. Exams - Final exam at the end of the course.
 - 2. Quizzes - Approximately every 4 weeks
 - 3. Projects - 1 - 4 during the semester.
 - 4. Field Trips - 1 - 3 over the course.
 - 5. Class participation - weekly
 - 6. Home work - weekly

IX. TYPICAL TEXTS:

- 1. Koe, Frank. *Fabric for the Designed Interior*. 2nd ed., Fairchild, 2017.
- 2. Scheneiderman, Deborah , and Alexa Griffith-Winton. *Textile Technology and Design-From Interiorspace to Outer Space*. 1st ed., Bloomsbury Academics, 2016.
- 3. Kadolph, Sara, and Sara Marcketti. *Textiles*. 12th ed., Pearson, 2017.
- 4. Deborah Young, Swatch Reference guide for Fashion Fabrics, 2nd, Fairchild, 2018

X. OTHER MATERIALS REQUIRED OF STUDENTS: