

FD 52A FABRIC ANALYSIS I

OUTLINE—FALL 2004

Assignments are given each week and due dates are indicated on this outline. Assignments are not accepted late.

Reading and study questions are assigned each week and should be completed **before** attending the lecture. Study questions are not graded but are used during class discussion and for quiz questions.

Week 1--INTRODUCTION

9/1 Session 1: Course requirements, texts, exams, homework. Instructor policies.

Homework: Buy supplies, swatch kit and text.

9/8 Session 2: Textile overview: Textile industry and Fabric components.
Textile Laws and Regulations
Using the swatch kit

Preparation for class:

Bring Text, Swatch Kit and supplies.

Read: Ch. 1, 16

Study questions: Ch 1: 3, 4, 5, 7, 10;

Week 2--FIBER CHARACTERISTICS --CH. 2

9/13 Session 3: Fiber Basics: Types and Characteristics

Preparation for class::

Swatches mounted and labeled in swatch book

Read: Ch.2 pp. 19-29.

Study questions: Ch. 2: 1,4,5,6,7,8

9/15 Session 4: Fiber Basics: Plant and animal fibers, fiber blends

Preparation for class::

Homework due: Assignment 1: Fiber Characteristics Worksheet

Week 3--NATURAL FIBERS--CH. 3, pp. 43-49

9/20 Session 5: Holiday

9/22 Session 6: Plant fibers, fiber blends

Preparation for class::

Read Ch. 3 pp. 43-49
Homework due: Assignment 2: Fabric Appearance Worksheet
Week 4--NATURAL FIBERS--CH. 3, pp. 43-49
9/27 **Session 7:** Animal fibers, fiber blends
Preparation for class::
Read Ch. 3 pp. 43-49
Sign up for Textile Research Fabrics

9/29 **Session 8:** Animal fibers, fiber blends
Preparation for class:
Study Questions: Ch. 3: 6,9,10
Homework due: Assignment 3: Wicking Worksheet

10/4 **Week 5--MANUFACTURED FIBERS --CH. 3, pp. 49-70**
Session 9: Man made fibers, fiber blends,
Preparation for class:
Read Ch. 3 pp. 49-70,
Study questions: Ch. 3: 1, 2,4

10/6 **Session 10:** Textile testing
Preparation for class:
Read Ch 2 pg. 29-33,
Homework due: Assignment 4: Wrinkle Resistance Worksheet

10/11 **Week 6-- FIBER IDENTIFICATION --CH. 2**
Session 11: Manufactured fibers, fiber blends, con't
Preparation for class:
Study Questions: Ch. 3: 3, 7
Homework due: Assignment 5: Burn Testing Properties Worksheet
Assignment 6: Solubility Testing Worksheet

10/13 **Session 12: TEST 1 and** Textile testing con't
Preparation for class :
Read Ch 2 pg. 29-33
Homework due:

10/18 **Week 7--YARNS--CH. 4**
Session 13: Yarn types, characteristics, yarn identification
Preparation for class:
Read Ch. 4
Study Questions: Ch. 4: 1, 5, 8
Homework due: Assignment 7: Mystery Fiber Identification

Preparation for class:

Bring examples of non woven. lace, bonded or laminated fabric used for garments or household objects.

Week 11— COLORATION

11/15 Session 21: TEST 2 (Yarns through Non-wovens)

11/17 Session 22: Color processes: Dyeing Basics and Characteristics

Week 12--TEXTILE DYEING/PRINTING--CH. 8

11/22 Session 23: Color processes: Dyeing Basics and Characteristics
Commercial Dyeing and Dye Resists

Preparation for class:

Read Ch. 8

Study Questions: 2, 3, 6, 7, 8, 9, 10.

11/24 Session 24: Commercial Dyeing

Homework due: Assignment 10: Weaving Project--(20 pts)

Week 13--TEXTILE DYEING/PRINTING

11/29 Session 25: Dye Lab

Preparation for class:

Bring prepared samples for dye session

In-Class Assignment 15: Lab Dips

In-Class Assignment 16: Dye Techniques Project

In-Class Assignment 17: Scarf

12/1 Session 26: Commercial Printing Processes

Basic Types of Prints, Pigments and Printing Types

Preparation for class:

Read Ch. 9

Study questions: 2, 4, 5, 7, 8, 9, 10

Week 14--TEXTILE PRINTING--CH. 9

12/6 Session 27: Textile printing lab

Preparation for class:

Bring prepared stencils and fabric

Homework due: Textile Research Pages DUE

12/8 **Session 28: Basic Finishes**
Preparation for class
Read Ch. 10,
Study questions: 2, 3, 4, 5, 6, 8, 9, 10
Homework due: Assignment 18: Printing Techniques Project

12/13 **Week 15-- FINISHES--CH. 10**
Session 29: Aesthetic Finishes
Read Ch. 10
Homework due: Corrected Textile Research Pages DUE—
copies with swatches attached for each classmate

12/15 **Week 16--**
FINAL EXAM W DEC. 15, 2004 9:40-11:40 AM

Extra Credit Assignments:

**No more than one person may present at each class session—
presentations will be scheduled on a first come, first served basis.**

- You may earn up to **10 points** of extra credit by:

Searching the internet for an article about one of the lecture topics (fibers, yarns, woven or knit fabrics, dyes, printing, finishing, textile regulations, fabric care, or special performance fabrics). The article must be shared with the class during the appropriate lecture. You must submit a 1-page word processed review worth 10 points and include a copy of the internet article with the internet site listed. All presentations must be completed and written projects submitted **BEFORE 12/8/04** to receive credit.

- You may earn up to **5 points** of extra credit by:

Teaching the class something new. Each presentation is worth 5 points. You will have a maximum of 10 minutes for your presentation. You must arrange the presentation with the instructor to ensure adequate time is available on the date you select to present.

1. You may bring in examples of fabrics or garments when appropriate to the lecture topic and explain how they reinforce the lecture material.
2. You may attend a fashion event where textiles are featured and share the new information you learned.
3. You may negotiate a topic with the instructor.

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