

TXMI 3500: TEXTILES (Fall 2009)

Instructor:

Dr. Charles Q. Yang
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TA:

Ming Zhang (graduate student)

Office Hours:

9:30-11:00am, M-W-F

Walk-in any time if office door is open..

Course Objectives:

1. To understand the chemical structures, physical properties, and structure-property relationship of textile **fibers**.
2. To understand the production and properties of textile **yarns** and **fabrics**.
3. To understand the general concept of **finishing** and **dyeing** of textile fabrics.

Textbook:

Collier and Tortora, Understanding Textiles, 6th/7th edition (recommended, will be required in TXMI 3520)

Evaluation:

3 Period Exams: 100X3=300 pts
Final exam: 200 (comprehensive exam)
Extra credit: 15 pts (presentation at the end of semester, optional)

Total 500

A	100-91%
A-	90-88%
B+	87-85%
B	84-80
C+	79-76
C	75-70%
D	<70%

Course Policies:

1. No exams will be dropped. Make-up exams will only be given for health reasons. The student must inform the instructor via email or phone before the exam and in writing within two days after the exam for the excused absence.
2. Attendance of class is required. Students are required to sign on the attendance sheet starting the second Monday. TA will keep all the attendance record. **A student will be withdrawn without advanced notice by the instructor if he/she misses 6 classes (including excused absence)**. It is the responsibility of the student to record the number of missed classes.
3. If a student is 30 minutes late for an exam, the student is NOT allowed to take the exam.
4. All the grades will be posted on Web CT. Questions related to grades should be sent to TA.
5. Only those students who turn in the research paper and give the presentation on time are eligible for receiving the extra credits.
6. Late-adds for this course will not be approved except on exceptional circumstances.

Revised Class Schedule

Date	Topic
8/17	Syllabus, Introduction to TXMI 3500
8/19, 24, 26	1. Introduction
8/21	No class
8/28, 31	2. Protein Fibers: Wool and Silk
9/2, 4	3. Cotton
9/7	No class
9/9	4. Regenerated Cellulose: Rayon
9/11	5. Modified Cellulose: Acetate and Triacetate
9/14	Review
9/16	Exam 1
9/18	Exam 1 Discussion
9/21	6. Polyamide
9/23, 25	7. Polyester
9/28	8. Acrylic and Modacrylic fibers; 9. Polyurethane Fibers;
9/30	10. Polyolefin Fibers,
10/2	Review-A: natural vs. man made fibers
10/5, 7	11. Textile Yarns
10/9, 12	12. Woven Fabrics
10/14	13. Knitting Fabrics (video show)
10/16	Review-B
10/19	Exam 2
10/21	Exam 2 Discussion
10/23	14. Nonwovens
10/26	15. Wet Preparations
10/28, 11/2	Globalization Video
10/30	<i>Fall break</i>
11/4, 6	16. Functional Finishing
11/9, 11, 13	17. Dyeing and Printing
11/16	Review
11/18	Exam 3
11/23-27	<i>Thanksgiving break</i>
11/20,30; 12/2, 4, 7, 8	<i>Presentations (10 extra pts)</i>
12/10 3:30 pm	Final Exam