

COURSE SYLLABUS

TXMI 4100/6100 (3 hours credit)
Advanced Textiles
Fall Semester, 2002

Dr. J. Nolan Etters
Room 315 Dawson Hall
Office Hours: Open
Telephone: 542-4892

Course Description:

Advanced study of textiles, with emphasis on natural and synthetic fibers and commercially important wet processing preparation processes.

Prerequisites: TXMI 3500 and 3500 lab or permission of instructor.

Lecture times: 9:30 - 10:45 Tuesday and Thursday

Course Purpose and Objectives:

To develop the student's understanding of advanced physico-chemical aspects of natural and synthetic fibers and those textile wet processing techniques used in commercial fabric preparation processes. Dyeing and finishing processes are not emphasized in the course objectives, since these areas are covered in separate TXMI courses.

TEXT: Dyeing and Chemical Technology of Textile Fibers by E. R. Trotman. Only pages 6-218 will be covered.

Other reading material may be distributed or assigned.

GRADING SYSTEM:

Midterm Exam.....300 points
Comprehensive Final Exam..350 points
Summaries.....200 points
Other Assignments.....150 points

Total 1000 points

GRADING SCALE:

89.5 - 100	A
79.5 - 89.4	B
69.5 - 79.4	C
59.5 - 69.4	D
0 - 59.4	F

DISCUSSION OF GRADING SYSTEM:

The midterm exam and the comprehensive final exam will be based on both class lectures and assigned readings.

SUMMARIES:

Students will prepare 2-3 page doubled spaced typewritten summaries of both assigned and non-assigned articles. The student may be required to give a short in-class presentation of the article. Non-assigned articles must be no older than six months. A "Xerox" copy of all articles must be submitted with the summary. Please Note: Summaries must be in student's own words. Plagiarism will not be tolerated! Papers will be graded very strictly on proper English usage.

SPECIAL INTERNET ASSIGNMENTS:

Special INTERNET assignments will be made during the quarter. These assignments are due as noted in syllabus.

CLASS POLICIES:

Attendance and Class Participation. In view of the advanced nature of TXMI 4100/6100, it is important that each class be attended and that each student participate in class discussion. Missing class or not participating in class discussion will have a profoundly negative influence on both the student's understanding of the class material and the student's final grade.

Tardiness. Class begins at 9:30 AM. Dr. Etters finds student tardiness to be exceedingly irritating. Tardy students infringe on the class time of punctual students by disrupting class attentiveness.

Make-Up Exam Policy. Only students with excused absences will be permitted to make up a missed exam. The student must present a written excuse signed by a suitable authoritative person. Make-up exams will be oral exams, conducted in the office of the instructor.

TENTATIVE CALENDAR

DATE

08/25	Syllabus	
08/27	Adventures in Textile Chemistry	
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09/01	Adventures in Textile Chemistry	
09/03	Adventures in Textile Chemistry	
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09/08	Assigned Summaries and Presentations (#1)	
09/10	BOBBIN SHOW	
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09/15	General Properties of Fibers Cotton and Cellulose Chemistry	09/17
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09/22	AATCC International Conference & Exhibition	
09/24	AATCC International Conference & Exhibition	
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09/29	Multicellular Vegetable Fibers	
10/01	Animal Fibers - Wool/Silk	
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10/06	Regenerated man-made fibers (INTERNET Assignment #1 Due)	
10/08	Review	
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10/13	Midterm Exam	
10/15	Synthetic Fibers	
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10/20	Synthetic Fibers	
10/22	Library Study Day	
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		10/27
10/29	Non-Assigned Summaries and Presentations (#2) Water and Water Purification	
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11/03	Water and Water Purification	
11/05	Detergents and Scouring	
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11/10	Internet Assignment	
11/12	Internet Assignment	
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11/17	Detergents and Scouring (INTERNET Assignment #2 Due)	
11/19	Sizing/Desizing	
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11/24 **Catchup Day**
11/26 **THANKSGIVING DAY**

12/01 **Bleaching (INTERNET Assignment #3 Due)**
12/03 **Bleaching**

12/08 **Special Topics**
12/10 **Review for Final Exam**

Final Exam: 8:00 - 11:00 AM Thursday, Dec. 17