

TXMI 3520: “Textile Testing” (Spring 2009)

Instructor:

Dr. Charles Q. Yang, Professor
305 Dawson Hall
(706) 542-4912 (office); (760) 424-2597 (cell) (Both phones have voice-mail)
cyang@uga.edu

TA:

Rohan Khatavkar (krohan@uga.edu)

Office Hours:

9:30-11:00am M-W-F; *Walk-in any time on any day if the office door is open*

Course Objectives:

1. To understand the general principles of textile testing;
2. To understand and to become familiar with major textile testing procedures, including (1) sample preparation, (2) testing methods, (3) data processing and interpretation, and (4) writing a final report;
3. To perform major textile testing procedures;
4. To understand how to evaluate and to make judgments on the performance of a textile material based on testing results.

Textbook and Lab Notebook:

Textile Testing and Analysis by Billie J. Collier and Helen H. Epps, 1999
Lab Notebook (specifically for this class, purchased by students)

Course Evaluation

Mid-term exam	100 pts
Final exam	100 pts
Final presentation*	50 pts
<u>Lab report (15X10 pts)</u>	<u>150 pts</u>
Total	400 pts

A 100-91%; A- 91-89%
B+ 88-86%; **B 84-87%**; B- 80-83%
C+ 77-79%; **C 74-77%**; C- 70-73
D 60-70%; F <60%

* Instructions about the final presentation in the last week will be posted on Web CT.

Course Policies:

1. **Attendance is taken for every lecture and every lab sessions. Attendance at every lecture and every lab session is required. Missing three lectures or two lab sessions will result in being withdrawn automatically by the instructor.**
2. No exams will be dropped. Make-up exams will only be given for a student's 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.
3. All the grades will be posted on Web CT. Questions related to grades should be sent to TA first. All questions must be sent to the TA no later than two days before the final exam day.
4. Students need to turn in their lab report (hard copy) to TA at the beginning of the lab session one week after the experiment is completed. Only those students who both complete the lab and turn in their report on time are eligible for full credits. No late report is accepted. Students who only complete the lab but do not turn in reports *on time* receive no credit.
5. Late-adds for this course will not be approved except on exceptional circumstances.
6. All academic work must meet the standards contained in "A Culture of Honesty." Students are responsible for informing themselves about those standards before performing any academic work.
7. The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.
8. All cell phones must be put on "silent" in class or lab. Conversations among students are distraction to the attention of both the instructor and other students, therefore should be avoided.

TXMI 3520 Lecture Topics

Date	Topic	Textbook Chapter	Week
1/8	No class		0
1/13	1. Introductions to TXMI 3520	-	1
1/20	2. Overview: textile testing, textile properties and textile performance	1, 2, 5	2
1/27	3. Standard testing, sample conditioning and experimental errors	4+	3
2/3	4. Data handling	3	4
2/10	5. Tensile and tearing strength of fabrics	6	5
2/17	6. Abrasion and wear properties	7	6
2/24	7. Refurbishing and dimensional properties	8	7
3/3	8. Appearance retention	9	8
3/10	Spring break		9
3/17	9. Color and colorfastness	10	10
3/24	10. Fabric hand and drape	12	11
3/30	11. Comfort and related textile properties	13	12
4/7	12. Safety and protective properties of textiles	14	13
4/14	To be announced	-	14
4/21, 23, 29	14. Presentation	-	15
Final Exam	May 5, 3:30pm		