

# COLLEGE OF DESIGN

UNIVERSITY OF MINNESOTA

<b>Course Title</b>	<b>Textile Analysis</b>
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<b>Course Designator</b>	ADES	<b>Section Number</b>	Lecture and Labs
<b>Course Number</b>	2213	<b>Semester and Year</b>	Fall 2016

<b>Class Meeting Days &amp; Time</b>	Lecture: MW 8:30-9:20am Register for lab day/time
<b>Classroom</b>	Lecture: 33 McNeal Hall Lab: 322 McNeal Hall
<b>Number of Credits</b>	4
<b>Final Exam Date &amp; Time</b>	Saturday, December 17, 1:30-3:30 See calendar for lab final exam information

## Instructor's Information

<b>Name</b>	Dr. Karen LaBat
<b>Office Location</b>	354 McNeal Hall
<b>Office Phone</b>	612-624-3628
<b>Email</b>	klabat@umn.edu
<b>Office Hours</b>	M 9:45-10:45 and by appointment

<b>Teaching Apprentices</b>	Kira Erickson, Lead TA Haeun (Grace) Bang Nika Gagliardi Nok Yeon Kim Tahmidul Islam
<b>Undergrad lab assistant</b>	Ray Myers

## Course Information and Instructor's Expectations

### Course Description:

Physical, chemical, and biological characteristics of fibers, yarns, textile structures, and finishes. Their effect on performance/appearance of textile products, including apparel, interior, and industrial textiles.

### **Professor's goals for the course:**

My goals are to provide you with a comprehensive understanding of the physical properties of a wide range of textiles and to help you develop the skills to evaluate any textile. Most of you will be designing with or purchasing textiles and textile products in your chosen professions. With knowledge from this course you should be able to select the most appropriate textile for a design project or merchandized product.

**Course Prerequisites:**

**Sophomore level**

**Apparel Design, Interior Design or Retail Merchandising major**

**Required and Recommended Materials:**

**Required Texts:**

Kadolph, S.J. (2017). *Textiles* (12<sup>th</sup> ed.). New Jersey: Prentice Hall. (Available at Books Underground).

- Also available as an ebook pick up card from UMN bookstores with information.
- If you have access to 11<sup>th</sup> edition---that will also be acceptable, however you are responsible for translating page numbers from 11<sup>th</sup> to 12<sup>th</sup> edition.

LaBat & Salusso. *Textile Analysis Handbook: Classification and Analysis of Textiles* 2016 edition. (available only at Books Underground and Coffman Book Store)

Laboratory sheets (available only at Books Underground and Coffman Book Store)

NOTE: If the packets are not on the shelf in St. Paul bookstore ask at the service counter.

Packets can be shipped over from Coffman in one day.

TexSwatch Fabric swatch kit—available at Books Underground and Coffman Book Store

Supplies: See Lab Information sheet---hand-out in first lab

**WEB SITES:**

US Customs Guide to Generic fiber names and Tradenames

[http://www.cbp.gov/linkhandler/cgov/trade/legal/informed\\_compliance\\_pubs/icp040.ctt/icp040.pdf](http://www.cbp.gov/linkhandler/cgov/trade/legal/informed_compliance_pubs/icp040.ctt/icp040.pdf)

- Federal Trade Commission web site. RN database --- the registered number for textiles manufactured in U.S. [www.ftc.gov](http://www.ftc.gov)
- U.S. Consumer Product Safety Commission. Gives all current recall information. Information on textile flammability regulations. For access to safety/flammability regulations: [www.access.gpo.gov/nara/cfr/waisidx\\_03/16cfrv2\\_03.html](http://www.access.gpo.gov/nara/cfr/waisidx_03/16cfrv2_03.html)
- There are many more sites---be advised that the Wikipedia site does not always have reliable information.

There are also some smart phone apps available-----some of the vocabulary used in these sites may not agree with vocabulary we use in class.

**Student Learning Outcomes:**

1. Develop a comprehensive vocabulary of textile terms.
2. Use the textile equation (Fiber + Yarn + Structure + Finish = Textile) to analyze textile variables
3. Identify basic fabrics (structures and names) and draw conclusions about how fabrics differ structurally and materially
4. Understand characteristics of fibers, structures and finishes and how the characteristics affect performance and use of textile products
5. Locate and critically evaluate information and document through exams and written assignments.
6. Analyze textiles and make appropriate choices for textile products from a design/merchandising perspective.

**Release of Work Statement:**

Students understand that enrollment in this course grants consent for their work to be selected for inclusion in college or departmental publications (online or in print). Your instructor may select to use your work to represent her/his skills as an instructor in a teaching portfolio (online or in print).

**Attendance:**

Attendance in lecture and lab is essential. Information is covered in lecture that is necessary for completion of the laboratory that follows in the lab session. Attendance is taken routinely in lab and periodically in lecture. Students are responsible for all make-up materials. Make-up for mid-term and final exams is granted only in emergency situations. Arrangements for absences due to university approved participant sporting events must be made at the beginning of the semester or as soon as possible. An incomplete for the class is given only under exceptional circumstances and a contract for completion of the class must be agreed upon by student and professor before the end of finals week and filed in the department office. Also see attendance policy for lab attendance.

**Tardiness**

I start class on time and expect that you will be here at least 5 minutes before the 8:30AM start time. Occasionally, you may find it necessary to be late. In that case, I prefer that you come to class late rather than miss the entire session. However, tardiness should never develop into a pattern. **To avoid disrupting the class---please enter at the back of the lecture room.**

**Workload:**

The U of M Senate standard for credit/work ratio for undergraduate students is that one semester credit is to represent, for the average U of MN undergraduate student, or 3 hours of academic work per week (including lectures, laboratories, recitations, field work, study outside of class, etc.), averaged over the term, in order to complete the work of the course. **Textile Analysis is a 4 credit course, therefore 12 hours of work per week is expected for this course.**

**Course Examinations**

There are three major written examinations for the lecture portion of the course that are

primarily from information learned in lecture and in readings. There are two mid-term exams and the final exam. The format for all three exams is similar. There are several sections of multiple choice, true/false, and fill in the blank. These questions test your vocabulary and factual knowledge. There may be 1 or 2 short essays in each exam. These questions assess your ability to integrate knowledge from lab and lecture and often ask you to evaluate the performance of a textile in an end-use situation.

**Final Exam Scheduling Conflicts:** You are required to take final examinations at the times shown (lecture and lab). However, if you have examination conflicts or three exams within a 16-hour period, you may request adjustment with your college office and with your instructor. **Such a request must be presented at least two weeks before the examination period begins.**

### **Handbook--Textile Swatches**

Textile swatches in the Handbook give students a representative sample of commercially available textiles. Students are responsible for analyzing the textile swatches for yarn type, fabric structure and finish. This is a continual process of analysis and re-analysis as the course progresses and students learn more about the factors that affect the textile--in other words your assessment of each textile swatch may change as you progress through the course.

**At the completion of each lab go through your entire Handbook and find swatches that relate to the lab topic---fill in as much information as you can—USE PENCIL--- you may change your mind later!**

Mount the TexSwatch textile swatches and swatches supplied by the lab instructor in the Handbook and complete as much information about each swatch as possible. Fiber content is given in the key or provided by the lab instructor—do not “guess” fiber content.

**Students must analyze each and every swatch in the Handbook -- and fill in the blank boxes with:**

- 1) fabric name
- 2) yarn type and structure
- 3) fabric structure, (e.g. woven-basket; knit-warp-raschel, etc.)
- 4) finish. Many finishes, especially color application (e.g. yarn dyed, piece, dyed, etc.) can be determined by examining the textile or assumed because of the type of textile (e.g. cotton organdy fabrics are parchmented).

**\*\*\*You are responsible for writing in information for ALL swatches in your Handbook, including fabric name, fiber name, yarn type, fabric structure and specified finishes.**

**Note: your Handbook will be graded throughout the semester.**

### **Grading Structure:**

<http://policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html>

### **Grade Distribution**

30% Lab Grade (300 points)

- Accumulated points from lab sheets, one written assignment on labeling laws, and quizzes **NO MAKE UP QUIZZES**

25% Lab Final (250 points)

25% Lecture Exams 1 & 2 (250 points/125 points each)

20% Comprehensive Final Exam in Lecture (200 points)

The final grade is based on accumulated points divided by total points possible.

Grades are determined as follows:

A (93.3%) Represents achievement that is outstanding relative to the level necessary to meet course requirements  
A- (90%)

B+ (86%) Represents achievement that is significantly above the level necessary to meet course requirements  
B (83%)

B- (80%)  
C+ (76%) Represents achievement that meets all course requirements in every respect  
C (73%)

C- (70%)  
D+ (66%) Represents achievement that is worthy of credit even though it fails to meet fully the course requirements  
D (63%)

F (below 60%) Represents failure and signifies that the work was either 1) completed but at a level of achievement that is not worthy of credit or 2) was not completed and there was no agreement between the instructor and the student that the student would be awarded an Incomplete. The F carries "0" grade points and the credits for the course do not count toward any academic degree program. The credit hours for the course do count in the grade point average.

**Accepting and Returning Assignments:** All assignments are required to be turned in on time on the designated due dates. Assignments will be graded and returned within a reasonable time to allow for feedback and study before quizzes and exams.

**Grading Late Work:**

Late work will be accepted from those who have a documented, University-approved excused absence (i.e. documented death in the family, illness with doctor's note, documented class trip, religious holiday) ---for lecture exams---contact Dr. LaBat in advance or as soon as possible.

**Policy for Missed Exams:**

Make-up exams will be given to those who have a documented, University-approved excused absence (i.e. documented death in the family, illness with doctor's note, documented class trip, religious holiday) ---you must contact Dr. LaBat by e-mail in advance or as soon as possible.

**Make Up Work for Legitimate Absences:**

<http://www.policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html>

**Extra Credit Options:**

**No extra credit assignments—keep up with assigned work!**

## University Policies

### Personal Electronic Devices in Classroom:

Turn off all cell phones during lecture. If you "beep, buzz, or ring" during a lecture, you will be asked to leave the lecture session and not return for the remainder of that session. Note taking via computer is allowed--however, professor and TA's will circulate during lecture and ask you to leave if you are on any social media sites. Research shows that "multi-tasking" does not work--one of the tasks will suffer! See UMN policy:

<http://policy.umn.edu/Policies/Education/Education/CLASSROOMPED.html>

**Photographs of lecture PowerPoint slides are prohibited  
as violation of copyright**

### Use of Class Notes and Materials:

<http://policy.umn.edu/Policies/Education/Education/CLASSNOTESSTUDENTS.html>

### Scholastic Dishonesty and Student Conduct Code:

[http://www1.umn.edu/regents/policies/academic/Student\\_Conduct\\_Code.pdf](http://www1.umn.edu/regents/policies/academic/Student_Conduct_Code.pdf)

### Sexual Harassment:

<http://www1.umn.edu/regents/policies/humanresources/SexHarassment.pdf>

### Statement on Climate of Inclusivity:

You are expected to be attentive during class, ask questions if you do not understand something, and to offer your opinion. You are also expected to listen respectfully to other students and to me when speaking. The University of Minnesota is committed to providing a safe climate for all students, faculty, and staff. All persons shall have equal access to its programs and facilities without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation. Racism, sexism, homophobia, classism, ageism and other forms of bigotry are inappropriate to express in this class. Reports of harassment are taken seriously, and there are individuals and offices available for help.

(or refer to [http://www1.umn.edu/regents/policies/administrative/Equity\\_Diversity\\_EO\\_AA.pdf](http://www1.umn.edu/regents/policies/administrative/Equity_Diversity_EO_AA.pdf))

### Academic Freedom and Responsibility:

[http://www1.umn.edu/regents/policies/academic/Academic\\_Freedom.pdf](http://www1.umn.edu/regents/policies/academic/Academic_Freedom.pdf)

**Availability of Disability and Mental Health Services:**

The University of Minnesota is committed to providing all students equal access to learning opportunities. Disability Services (DS) is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations.

- Students who have, or think they may have, a disability (e.g. mental health, attentional, learning, vision, hearing, physical or systemic), are invited to contact DS to arrange a confidential discussion at 612- 626-1333 (V/TTY) or [ds@umn.edu](mailto:ds@umn.edu).
- Students registered with DS, who have a letter requesting accommodations, are encouraged to contact the instructor early in the semester to discuss accommodations outlined in their letter.

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce your ability to participate in daily activities. University of Minnesota services are available to assist you with addressing these and other concerns you may be experiencing. You can learn more about the broad range of confidential mental health services available on campus via [www.mentalhealth.umn.edu](http://www.mentalhealth.umn.edu) or contact Counseling/Consulting Services at 612-624-3323.

**Academic Services:**

If you would like additional help, please contact one of the offices listed below.

Center for Writing	10 Nicholson Hall, Mpls	612-626-7579
Student Academic Success Service	340 Appleby Hall, Mpls 199 Coffey Hall, St. Paul	612-624-3323

