

TEXTILES – AD169

Instructor:	e-mail:
	Term:
Voice mail:	Total class hours: 18
Office hours:	Class meets:

Course description: An introduction to textiles that provides a broad view of the types, development, production and use of fabrics and the impact they have on design and construction. The characteristics of different fibers, yarns, fabrics, and finishes are investigated.

Course objectives: Following this class, the student will be able to demonstrate textile terminology correctly. The purpose of this course is to advance students' knowledge of fibers, fabrics, their construction and end use possibilities.

Competencies being assessed:

- Apply appropriate apparel terminology in business situations.
- Evaluate performance of textile fibers, fabrics and findings for given applications.

Class format: Class time is divided between lecture/demo and supervised lab time.

Required texts: *Fabric Science textbook, 11th ed., Pizzuto, JJ.* ISBN 9781628926576

Required supplemental materials: *Fabric Science* swatch kit with fabric pick glass and pick needle included in the above ISBN

Standards of conduct: Complete and on-time attendance is mandatory.

- **No student can miss three or more classes and expect to pass this class.**
- Attendance is at the beginning of each class period. If you are late, you will lose half the attendance points for the day. If you arrive late, it is your responsibility to make sure you have been counted present. If you arrive more than 15 minutes after the beginning of a part of the class period, you will be counted absent for that part of the period.
- If you are absent, you lose the attendance points for that day. If you know ahead of time that you will not be in class, make arrangement with the instructor the night *before* class (by 10 p.m. and by telephone).
- It is the student's responsibility to keep track of assignments and turn them in on time should the students miss the class or arrive late.
- Professionalism means: Turn off your cell phone. Attend the full class. Focus and follow-through during classroom work. Have respect and work well with classmates. Use the same behavior in the classroom as you would on the job in the apparel industry.
- Late work will result in a one letter grade deduction.

Labeling Policy: All student work must be turned in with the following information: Name, Course Name/Number, Instructor, Term/Date, Project/Assignment, Contact Info (phone or e-mail). Work may not be accepted for full credit without the required information. PFI cannot guarantee the return of student work that is not labeled with the required information.

Incomplete: A student who, due to medical or other exceptional causes, cannot complete the required class work must document his/her situation and submit a written

request for an incomplete grade to be entered. The instructor, the academic advisor and director must approve the grade and assign a time line for the work to be completed. Incompletes must be requested and approved no later than the end of the quarter for which the incomplete is requested. To remove an incomplete, a student must complete the required course work before the next quarter commences. If a student does not comply within the time line or does not complete the work, an “F” grade, or the grade calculated by the instructor on the incomplete form, will be entered to replace the incomplete.

To initiate a request for an incomplete grade, the student must fill out an incomplete form and submit it to his/her instructor. The instructor will obtain the required signatures and submit the completed form with final grades.

Withdrawal (W/WF): The student who withdraws from a course or from the program during the first six weeks of the quarter will be assigned a “W” code for each course. The “W” code is not used in computation of the student’s grade point average; however, “W” credits are counted toward total credits attempted. The student who withdraws from a course or from the program after the ninth week of the quarter will be assigned a “WF” code for each course. The “WF” code is the equivalent of a grade of “F” and is used in computing the student’s grade point average.

Students wishing to withdraw from PFI must file an official status change form with the Academic Advisor.

Last day to withdraw from the class is 48 hours before class starts.

Lab Policies: Leave food and drink outside the classroom. Disciplinary action will be taken toward any student found using the equipment in an inappropriate manner. Disruptive, disrespectful, rude behavior is not tolerated.

Plagiarism: Presenting the writings, images or paraphrased ideas of another as one’s own, is strictly prohibited. Properly documented excerpts from other’s works, when they are limited to an appropriate amount of the total length of a student’s paper, are permissible when used to support a researched argument.

Attendance Policy: Students who are absent from all scheduled classes over a 14-day period (2 weeks) are subject to automatic attendance suspension—from PFI, not just from this course. This means the student is administratively withdrawn from all courses and cannot attend classes or continue in the current quarter unless he/she successfully appeals for reinstatement. Students who anticipate violating the attendance policy should contact the academic advisor immediately to discuss options such as withdrawing from PFI or navigating the appeals process.

Picking up Work: Please pick up your work no later than the first Friday of the following quarter. If you cannot retrieve your work by this date please make arrangements with me. All work not picked up by this date will be recycled.

Students with Disabilities: It is PFI policy not to discriminate against qualified students with a documented disability in its educational programs, activities or services. If you have a disability-related need for adjustments contact the academic advisor.

Evaluation:

Attendance/Professionalism/Participation	10 %
Midterm quiz	10 %
Final quiz	10 %
Samples, class notes	10 %
Swatch Book projects	40%
Lab Fiber Identification project	20 %
TOTAL	100 %

Grade Scale

Letter	Number	Rating
A	95-100	Excellent
A-	90-94	
B+	87-89	Good
B	83-86	
B-	80-82	
C+	77-79	Satisfactory
C	73-76	Fair
C-	70-72	
D+	67-69	Marginal
D	62-66	
F	<62	Failure

COURSE CALENDAR

This syllabus is subject to change at the instructor's discretion.

WEEK/DATE	TOPIC	ACTIVITY	ASSIGNMENTS
1/	Introductions. Tools. Goals and Objectives. Fiber characteristics: Natural & manufactured fibers	Bring supplies to every class. LECTURE: <ul style="list-style-type: none"> Terminology used to express and communicate the properties of textile fibers How fiber properties may affect the usage of textile fabrics and finished products The sources of textile fibers, both natural and manufactured Classifications of textile fibers Correlation of fibers with their properties for end-use requirements Various trademarks, logos, and names used to market textile fibers Importance of fibers to the industrial products industries •QUIZ PREP	Read Chapter 1, answer questions # 2, 5, 9. Read Chapter 2, answer questions # 2, 3, 4, 5. In class: Swatches # 2,12,5,8, 15,34,44 Swatches # 26,31,33, 37, 71, 113 Read Chapter 3, answer questions # 1, 5, 6, 10
2/	Yarns & sewing threads	LECTURE: <ul style="list-style-type: none"> Impact that type of yarn has on properties of fabric Distinctions between various yarn types, properties, and end-use applications Systems for determining yarn sizes Types, uses, and optimum applications of sewing threads QUIZ: CHAPTERS 1-4	Read Chapter 4, answer questions # 1, 3, 4, 7 In class: Swatches #2,3,4,5,7, 10,16,18, 19,21,24,25,102
3/	Woven Fabrics	LECTURE: <ul style="list-style-type: none"> How woven fabrics are manufactured Why woven fabric look and perform the way they do Various weaves and their identifying characteristics Terminology used regarding woven fabrics Identification of various well-known woven fabrics 	Read Chapter 7, answer questions # 1, 3, 6, 8, 12 In class: Swatches #63,64,65, 66,67,68 Read Chapter 5, answer questions # 1, 4, 6, 9 In class: Swatches # 1,7,12,13,30,83,34,35,36,37, 53,55
4/	Knitted fabrics	LECTURE: <ul style="list-style-type: none"> Why knitted fabrics look and perform the way they do Various knit structures and their identifying characteristics 	Read Chapter 6, answer questions # 2, 3, 5, 9 In class: Swatches # 44,45,47, 48,49,52,53,54,55,56,58,59,60

		<ul style="list-style-type: none"> • How knitted fabrics are produced • Important differences between knitted and woven fabrics and end uses for each • Terminology used regarding knitted fabric <p>QUIZ PREP</p>	,62,100 Read Chapter 8, answer questions # 1, 4, 5, 8
5/	Dyeing and Finishing techniques	<p>LECTURE:</p> <ul style="list-style-type: none"> • Dyeing and printing terminology and processes • How can construction and content affect Dyeing and Printing? Vice versa? • What are the finishes and treatments that can be applied to the fabric and what advantages do they offer? 	
6/	Determining fabric quality; Fabric selection	<p>LECTURE:</p> <ul style="list-style-type: none"> • Tests and procedures for evaluating textile quality • Role of fabric standards and specifications in domestic and international textile trade • How fabric end-use suitability is determined • How textile fabric performance properties result from each component's relationship and effect on all other components. • How performance expectations of fabrics differ with each end use of that fabric <p>• QUIZ: CHAPTERS 5-8</p>	Swatchbook due at end of class