

## FS 2510 - TEXTILE SCIENCE

Credits: 3

This course explores the scientific fundamentals of natural and synthetic textile fibers, yarn, and production fabric construction for both weaving and knitting. Students will investigate the related processes of dyeing, printing, and finishing. Upon successful completion of this course, students will apply their working knowledge of various textiles properties toward an original fashion design for evaluation.

Prerequisites: completion of 30+ credit hours

Course Learning Outcomes:	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	Institutional Outcomes
Identify different types of textiles, including their fibers, structures, characteristics, uses, and costs.	Student work displayed an excellent degree of competence in identifying textiles	Student work displayed a satisfactory degree of competence in identifying textiles	Student work displayed a limited degree of competence in identifying textiles	Student work displayed no degree of competence in identifying textiles	FS1	Design Competence, Cultural Competence
Compare the processes of dyeing, printing and finishing in textile production, with consideration to fabric care.	Student work displayed an excellent degree of competence in textile finishes and fabric care	Student work displayed a satisfactory degree of competence in textile finishes and fabric care	Student work displayed a limited degree of competence in textile finishes and fabric care	Student work displayed no degree of competence in textile finishes and fabric care	FS1	Design Competence, Cultural Competence
Explain the appropriate textile selection for the look, feel, and purpose of a design.	Student work displayed an excellent degree of competence in explaining textile selection for garment design	Student work displayed a satisfactory degree of competence in explaining textile selection for garment design	Student work displayed a limited degree of competence in explaining textile selection for garment design	Student work displayed no degree of competence in explaining textile selection for garment design	FS2	Critical Thinking, Cultural Competence, Design Competence
Translate textile color, pattern, texture and finish into an original fashion design.	Student work displayed an excellent degree of competence in applying textiles to original garment design	Student work displayed a satisfactory degree of competence in applying textiles to original garment design	Student work displayed a limited degree of competence in applying textiles to original garment design	Student work displayed no degree of competence in applying textiles to original garment design	FS4	Critical Thnking, Communication Competence