

FS 3570 - TEXTILES: KNITS + HIGH TECH

Credits: 3

The emphasis of this course is to advance knowledge in textiles specific to high performance and knitting novelties. Students will experiment with a variety of knitting techniques using software, and will examine and test various high-tech synthetic fiber qualities to determine durability, utility, and function relevant to fashion implementation of performance apparel and products. Upon successful completion of this course, students will have a working knowledge of the potential to engineer performance apparel and specialized knitting applications in fashion and product design.

[Prerequisites: FS 2510 - Textile Science](#)

| Course Learning Outcomes: | Exceeding | Meeting | Developing | Not meeting | Program Outcomes | Institutional Outcomes |
|--|---|---|--|---|------------------|--|
| Discuss high performance and knitting novelties to build a strong foundation for contemporary practice in fibers. | Student work displayed an excellent degree of competence in high performance fabrics | Student work displayed a satisfactory degree of competence in high performance fabrics | Student work displayed a limited degree of competence in high performance fabrics | Student work displayed no degree of competence in high performance fabrics | FS1 | Design Competence, Cultural Competence |
| Explain the genetic chemical quality of various man-made fibers and textile constructions. | Student work displayed an excellent degree of knowledge in chemical composition and textile constructions | Student work displayed a satisfactory degree of knowledge in chemical composition and textile constructions | Student work displayed a limited degree of knowledge in chemical composition and textile constructions | Student work displayed no degree of knowledge in chemical composition and textile constructions | FS1 | Design Competence, Cultural Competence |
| Compare high-tech synthetic fibers for durability, utility, and function relevant to fashion performance apparel products. | Student work displayed an excellent degree of knowledge in high performance apparel productions | Student work displayed a satisfactory degree of knowledge in high performance apparel productions | Student work displayed a limited degree of knowledge in high performance apparel productions | Student work displayed no degree of knowledge in high performance apparel productions | FS1 | Design Competence, Cultural Competence |
| Analyze high tech fabrics and knitting applications in performance apparel and specialized fashion and product design. | Student work displayed an excellent degree of competence in applying high performance fabrics to garment design | Student work displayed a satisfactory degree of competence in applying high performance fabrics to garment design | Student work displayed a limited degree of competence in applying high performance fabrics to garment design | Student work displayed no degree of competence in applying high performance fabrics to garment design | FS1 | Design Competence, Cultural Competence |