

TEXTILE PRODUCT SCIENCE (BS)

Contacts

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Program Website (<https://www.jefferson.edu/academics/colleges-schools-institutes/kanbar-college-of-design-engineering-commerce/school-of-design-engineering/academic-programs/textile-product-science.html>)

Program Description

- STEM designated program

The program focuses on the innovative global textile industry, including fiber-engineered products for medical, geotextiles, architecture, fiber-reinforced composites, and traditional apparel and home applications. In this program students have the opportunity to select one of 4 career-focused concentrations and complete graduate level courses to transition into select Jefferson graduate programs.

Learning Goals/Outcomes

Prepares students to work in a global industry that includes fiber-engineered products for medical, geotextiles, architecture, fiber-reinforced composites, traditional apparel, and home-furnishing applications.

Concentrations

- Sports & High-Performance Materials
- Commerce
- Fashion Management
- Textile Fashion Sustainability

Curriculum: 4 Years, 123-126 Credits

| Course | Title | Credits |
|------------------------------|--|--------------|
| First Year | | |
| FYS 100 | Pathways Seminar | 1 |
| WRIT 101 | Writing Sem I: Written Comm. | 3 |
| CHEM 101 or CHEM 103/103L | General Chemistry or Chemistry I | 3-4 |
| AVIS 101 | American Visions | 3 |
| MATH 1XX | Mathematics | 3-4 |
| ENGR 104 | Introduction to Computing | 3 |
| DECF 102 | Finding & Shaping Opportunity | 3 |
| TEXT 104 | Foundation Fiber & Yarn Studies | 3 |
| KNIT 201 or WEAV 201 | Knit Technology I or Weave Technology I | 3 |
| CAD 201 or ENGR 102 | Intro to Digital Imaging or Engineering Drawing | 3 |
| PHYC 201 | Physics I | 3 |
| PHYC 201L | Physics I Lab | 1 |
| Credits | | 32-34 |

| Course | Title | Credits |
|--------------------------------|--|----------------|
| Second Year | | |
| ETHC 2XX | Ethics | 3 |
| GDIV 2XX | Global Diversity | 3 |
| WRIT 201 | Writing Seminar II: Multi Comm | 3 |
| DECS 2XX | Science (Select one DECSYS) | 3 |
| WEAV 201 or KNIT 201 | Weave Technology I or Knit Technology I | 3 |
| KNIT 205 or WEAV 301 | Knit Technology II or Weave Technology II | 4 |
| TEXT 307 | Textile Materials | 4 |
| Concentration Course | | 3 |
| Concentration Coursework (p.) | | 3 |
| Credits | | 29 |
| Third Year | | |
| ADIV 2XX | American Diversity | 3 |
| GCIT 2XX | Global Citizenship | 3 |
| CGIS 300 | Contemporary Global Issues | 3 |
| DECM 300 | Research Methods | 3 |
| KNIT 205 or WEAV 301 | Knit Technology II or Weave Technology II | 4 |
| TEXC 202 & 202L | Color, Dyeing and Finishing and Color, Dyeing & Finishing Lab | 4 |
| Concentration Courses | | 6 |
| TEXT 321 | Nonwovens | 3 |
| Designated Elective | | 3 |
| TEXT 411 | Textile Industry Issues | 1 |
| Credits | | 33 |
| Fourth Year | | |
| PHIL 499 | Philosophies of the Good Life | 3 |
| Concentration Courses | | 9 |
| General Electives | | 12 |
| TEXT 487N | Capstone in Textile Mat. Tech | 6 |
| Credits | | 30 |
| Total Credits | | 124-126 |