

TEXTILE TECHNOLOGY (MS)

Contacts

Program Director: Brian George, PhD

Email: Brian.George@jefferson.edu

215-951-2782

Campus: East Falls

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

Code	Title	Credits
TEXT 754	Indstrl, Specialty Fab Prod Dev	
TEXT 759	Product Evaluation	
TEXT 797	Selected Topics	
TEXT 798	Independent Study	
TEXT 942	Capstone Report	3
TEXT 790	QUALITY MANAGEMENT	
ENGR 624	Lean Manufacturing	3

Program Description

- STEM designated program

The MS in Textile Technology at Jefferson offers an integrated and collaborative curriculum that blends theoretical knowledge with experiential laboratory experiences. In many courses students turn innovative ideas into original products. It is expected that graduates of the program will pursue careers in production, product evaluation, research and development, or management in the textile and apparel related fields.

Learning Goals/Outcomes

- Teaches cutting-edge technical textile processes to students interested in learning more about the science and technical based aspects of textiles.
- Courses focus on development, production, and characterization of fibers, yarns, fabrics, and textile-based products.
- The program combines theoretical knowledge gained in the classroom with hands-on experience with weaving, knitting, nonwovens, and composites production equipment in the innovative Fashion and Textiles Futures Center, as well as materials evaluation equipment in the Jeff Bruner Materials Characterization Lab on the East Falls campus

Curriculum: 2 Years, 30 Credits

- Students select 9 elective courses from the following list and complete their studies with the 3 credit TEXT 942 Capstone Report.

Code	Title	Credits
TEXT 500	Intro to Polymer Material Sci	3
TEXT 601	Fiber and Yarn Studies	
TEXT 602	Textile Sustainability	
TEXT 603	Adv Integ Engg Product Develop	
TEXT 622	Mechanics of Textiles	
TEXT 623	Intro to Life Cycle Analysis	3
TEXT 624	Advanced Textile Composites	
TEXT 625	Biomaterials Technology	
TEXT 713	Coloration & Finishing Studies	
TEXT 721	Analytical Methods	
TEXT 751	Adv Woven Structures Prod Dev	
TEXT 752	Advanced Knitted Structures	
TEXT 753	Adv Nonwoven Structur Prod Dev	