

TEXTILE TECHNOLOGY (MS)

Contacts

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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>)

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 Brunner Lab on the East Falls campus.

Curriculum: 2 Years, 30 Credits

- Students select 8 courses from TEXT options below
- Thesis (Required, 6 credits)

Code	Title	Credits
Core Curriculum		
Select eight of the following:		24
TEXT 601	Fiber and Yarn Studies	
TEXT 602	Textile Sustainability	
TEXT 603	Adv Integ Engg Product Develop	
TEXT 613	Characterization Fibrous Mtrls	
TEXT 621	Mechanics of Materials	
TEXT 622	Mechanics of Textiles	
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	

Code	Title	Credits
TEXT 753	Adv Nonwoven Structur Prod Dev	
TEXT 754	Indstrl, Specialty Fab Prod Dev	
TEXT 755	Advanced Yarn Studies	
TEXT 759	Product Evaluation	
TEXT 762	Tex, Appr Operatns Mgt	
TEXT 783	Chem of Fibrous Matrls	
TEXT 790	Quality Management	
TEXT 791		
TEXT 797	Selected Topics	
TEXT 798	Independent Study	
ENGR 623	Intro to Life Cycle Analysis	3
ENGR 624	Lean Manufacturing	3
REQUIRED		
Thesis		6