## **Textile Technology (BS)**

To see more about what you will learn in this program, visit the Learning Outcomes website (https://apps.oirp.ncsu.edu/pgas/)!

The B.S. in Textile Technology provides students with basic knowledge of fiber materials, science and technologies of fiber processing, as well as fiber-based product design and development. The curriculum prepares students in product design and development processes, beginning with understanding of application to material selection to appropriate technologies to utilize.

The Textile Technology degree program offers a well rounded versatile degree, which prepares graduates to collaborate effectively with professionals in a global interdisciplinary environment. After introductory exposure to several of the fundamental aspects of fiber science and textile technology, the student can build additional depth in one of the three concentrations of Medical Textiles, Technical Textiles, and Textile Supply Chain Operations or stay in the general degree which allows students the flexibility of designing their own interest or transferring from other programs or community colleges. The Medical Textiles concentration covers design and methods of production of state-of-theart textile products and devices used in medical applications including sutures for wound closing to cardiac support devices. The Technical Textiles concentration covers design principles, understanding of applications, and technologies relevant to the vast array of technical textiles materials and products used in such areas as transportation, storage, packaging, automobile engineering, geotechnical engineering, and much more. This concentration offers two options: Materials and Nonwovens. The Textile Supply Chain Operations concentration focuses on the design, management, and coordination all the activities required to transform raw materials into finished textile products to retail. Students in this degree program will participate in the TE/TT Capstone Design Program (https://textiles.ncsu.edu/tecs/student-experience/ senior-design/), where projects are sponsored by industry partners and government agencies. More information about the degrees is available on the TECS TT (https://textiles.ncsu.edu/tecs/undergraduate/textiletechnology/) website.

## Plan Requirements

Code Orientation	Title	Hours	Counts towards
T 101	Strategies for Success in the Wilson College of Textiles	1	
ENG 101	Academic Writing and Research <sup>1</sup>	4	
MA/ST and Natural Sciences			
MA 131 & MA 132	Calculus for Life and Management Sciences A and Computational Mathematics for Life and Management Sciences 1	4	
or MA 141	Calculus I		

MA 231	Calculus for Life and Management Sciences B	3
or MA 241	Calculus II	
ST 311	Introduction to Statistics	3
or ST 370	Probability and Statistics for Engineers	
CH 101 & CH 102	Chemistry - A Molecular Science and General Chemistry Laboratory <sup>1</sup>	4
PY 205 & PY 206 or PY 211	Physics for Engineers and Scientists I and Physics for Engineers and Scientists I Laboratory College Physics I	4
PY 208 & PY 209	Physics for Engineers and Scientists II and Physics for Engineers and Scientists II Laboratory	4
D)/ 040		
or PY 212	College Physics II	
Major Requirem	College Physics II	
	College Physics II	3
Major Requirem	College Physics II rents Fundamentals of	3
Major Requirem EC 205	College Physics II ents Fundamentals of Economics The Textile	
Major Requirem EC 205 FTM 217	College Physics II ents  Fundamentals of Economics The Textile Industry Biotextile Product	3
Major Requirem EC 205 FTM 217 MT 366	College Physics II  rents  Fundamentals of Economics  The Textile Industry  Biotextile Product Development  Technology of Textile Wet	3
Major Requirem EC 205 FTM 217 MT 366 PCC 302	College Physics II  lents  Fundamentals of Economics  The Textile Industry  Biotextile Product Development  Technology of Textile Wet Processing Introduction to Polymer Science	3 3 4
Major Requirem EC 205 FTM 217 MT 366 PCC 302 TE 200	College Physics II  rents  Fundamentals of Economics  The Textile Industry  Biotextile Product Development  Technology of Textile Wet Processing Introduction to Polymer Science and Engineering Introduction to	3 3 4 3
Major Requirem EC 205 FTM 217 MT 366 PCC 302 TE 200 TMS 211	College Physics II  rents  Fundamentals of Economics  The Textile Industry  Biotextile Product Development  Technology of Textile Wet Processing Introduction to Polymer Science and Engineering Introduction to Fiber Science Introduction to Textile	3 3 4 3
Major Requirem EC 205 FTM 217 MT 366 PCC 302 TE 200 TMS 211 TT 105	College Physics II  lents  Fundamentals of Economics  The Textile Industry  Biotextile Product Development  Technology of Textile Wet Processing Introduction to Polymer Science and Engineering Introduction to Fiber Science Introduction to Textile Technology Yarn Production	3 3 4 3 3
Major Requirem EC 205 FTM 217 MT 366 PCC 302 TE 200 TMS 211 TT 105 TT 327	College Physics II  rents  Fundamentals of Economics  The Textile Industry  Biotextile Product Development  Technology of Textile Wet Processing Introduction to Polymer Science and Engineering Introduction to Fiber Science Introduction to Textile Technology Yarn Production and Properties Performance Evaluation of	3 3 4 3 3 3
Major Requirem EC 205 FTM 217 MT 366 PCC 302 TE 200 TMS 211 TT 105 TT 327 TT 331	College Physics II  rents  Fundamentals of Economics  The Textile Industry  Biotextile Product Development  Technology of Textile Wet Processing Introduction to Polymer Science and Engineering Introduction to Fiber Science Introduction to Textile Technology Yarn Production and Properties Performance Evaluation of Textile Materials Knitted Fabric	3 3 4 3 4 4 4 4

TT 401 Textile Technology Senior Design I  TT 402 Textile 4 Technology Senior Design II  TT 404 Introduction to Nonwovens Products and Processes  TT 431 Quality 3 Management and Control In Textile Manufacturing  TT 481 Design and Technology of Technical Textiles  Advised Electives  Advised Electives  Advised Electives  GEP Humanities (http:// 6 catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep-humanities)  GEP Social Sciences (http:// 3 catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep-health-exercise-studies/)  GEP Us Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/ undergraduate/gep-category-requirements/gep-health-exercise-studies/)  GEP Us Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/ undergraduate/gep-category-requirements/gep-interdisciplinary Perspectives (http://catalog.ncsu.edu/ undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)  GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/ undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/ undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/ undergraduate/gep-category-requirements/ gep-interdisciplinary-perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/ undergraduate/gep-category-requirements/ gep-interdisciplinary-perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/ undergraduate/gep-category-requirements/ gep-interdisciplinary-perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/ undergraduate/gep-category-requirements/ gep-category-requirements/ gep-interdisciplinary-perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/ undergraduate/ gep-category-requirements/ gep-interdisciplinary-perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/ undergraduate/ gep-category-requirements/ gep-interdisciplinary-perspectives/)	TT 380	Management and Control of Textile and Apparel Systems	3		
Technology Senior Design II  TT 404	TT 401	Technology	4		
to Nonwovens Products and Processes  TT 431 Quality Management and Control In Textile Manufacturing  TT 481 Design and Technology of Technical Textiles  Advised Electives  Advised Electives  Advised Electives  GEP Courses  GEP Humanities (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep- humanities/)  GEP Social Sciences (http:// 3 catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep- social-sciences/)  GEP Health and Exercise 2 Studies (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-health-exercise- studies/)  GEP US Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-usdei/)  GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-interdisciplinary- perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/ gep-interdisciplinary- perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/ gep-global-knowledge/) (verify requirements)  Foreign Language Proficiency (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements)  Foreign Language Proficiency (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/foreign-language-	TT 402	Technology	4		
Management and Control In Textile Manufacturing  TT 481 Design and 3 Technology of Technical Textiles  Advised Electives  Advised Electives  Advised Electives  Advised Electives  GEP Courses  GEP Humanities (http:// 6 catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep- humanities/)  GEP Social Sciences (http:// 3 catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep- social-sciences/)  GEP Health and Exercise  Studies (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-health-exercise- studies/)  GEP US Diversity, Equity, and 3 Inclusion (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-usdei/)  GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-interdisciplinary- perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/ gep-global-knowledge/) (verify requirements)  Foreign Language Proficiency (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements) Foreign Language Proficiency (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/foreign-language-	TT 404	to Nonwovens Products and	3		
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Advised Electives 2  GEP Courses  GEP Humanities (http:// 6 catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep- humanities/)  GEP Social Sciences (http:// 3 catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep- social-sciences/)  GEP Health and Exercise 2 Studies (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-health-exercise- studies/)  GEP US Diversity, Equity, and 3 Inclusion (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-usdei/)  GEP Interdisciplinary Perspectives 5 (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-interdisciplinary- perspectives/)  GEP Global Knowledge (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/ gep-global-knowledge/) (verify requirements)  Foreign Language Proficiency (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements)  Foreign Language Proficiency (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/foreign-language-	TT 481	Technology of Technical	3		
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**Total Hours** 120

C- or better
 Students should consult their academic advisors to determine how to complete this requirement.

## **Semester Sequence**

This is a sample.

Fall Semester		
raii Seillestei		Hours
CH 101	Chemistry - A Molecular Science	4
& CH 102	and General Chemistry Laboratory <sup>1</sup>	
ENG 101	Academic Writing and Research	4
MA 131	Calculus for Life and Management Sciences A <sup>1</sup>	3
TT 105	Introduction to Textile Technology (CP)	3
T 101	Strategies for Success in the Wilson College of Textiles	1
	Hours	15
Spring Semester		
MA 231	Calculus for Life and Management Sciences B	3
MA 132	Computational Mathematics for Life and Management Sciences	1
PY 211	College Physics I	4
TMS 211	Introduction to Fiber Science	3
FTM 217	The Textile Industry	3
undergraduate/gep	xercise Studies (http://catalog.ncsu.edu/ p-category-requirements/gep-health-exercise-	1
studies/)		
	Hours	15
Second Year Fall Semester		
EC 205	Fundamentals of Economics	3
PY 212	College Physics II	
	· ,	4
TE 200	Introduction to Polymer Science and Engineering	4
TE 200 TT 327	•	-
	Engineering	3
TT 327	Engineering Yarn Production and Properties (CP) Management and Control of Textile and	3
TT 327	Engineering Yarn Production and Properties (CP) Management and Control of Textile and Apparel Systems	3 4 3
TT 327 TT 380	Engineering Yarn Production and Properties (CP) Management and Control of Textile and Apparel Systems	3 4 3
TT 327 TT 380  Spring Semester ST 311 GEP Humanities (I	Engineering Yarn Production and Properties (CP) Management and Control of Textile and Apparel Systems Hours	3 4 3
TT 327 TT 380  Spring Semester ST 311 GEP Humanities (I	Engineering Yarn Production and Properties (CP) Management and Control of Textile and Apparel Systems Hours Introduction to Statistics http://catalog.ncsu.edu/undergraduate/gep-	3 4 3 17
TT 327 TT 380  Spring Semester ST 311 GEP Humanities (I category-requirem	Engineering Yarn Production and Properties (CP) Management and Control of Textile and Apparel Systems Hours Introduction to Statistics http://catalog.ncsu.edu/undergraduate/gepents/gep-humanities/)	3 4 3 17 3 3
TT 327 TT 380  Spring Semester ST 311 GEP Humanities (I category-requirem TT 351	Engineering Yarn Production and Properties (CP) Management and Control of Textile and Apparel Systems Hours Introduction to Statistics http://catalog.ncsu.edu/undergraduate/gepents/gep-humanities/) Woven Products and Processes (CP)	3 4 3 17 3 3 3
TT 327 TT 380  Spring Semester ST 311 GEP Humanities (I category-requirem TT 351 TT 341	Engineering Yarn Production and Properties (CP) Management and Control of Textile and Apparel Systems Hours Introduction to Statistics http://catalog.ncsu.edu/undergraduate/gepents/gep-humanities/) Woven Products and Processes (CP)	3 4 3 17 3 3 3

TT 481	Design and Technology of Technical Textiles	3
PCC 302	Technology of Textile Wet Processing	4
	Perspectives (http://catalog.ncsu.edu/ ategory-requirements/gep-interdisciplinary-	3
Advised Elective		3
	Hours	16
Spring Semester		
TT 331	Performance Evaluation of Textile Materials (CP)	4
MT 366	Biotextile Product Development	3
Select two Advised E	lective courses	6
•	quity, and Inclusion (http://catalog.ncsu.edu/ategory-requirements/gep-usdei/)	3
-	Hours	16
Fourth Year		
Fall Semester		
TT 401	Textile Technology Senior Design I	4
GEP Humanities (http://category-requiremen	p://catalog.ncsu.edu/undergraduate/gep- ts/gep-humanities/)	3
	Perspectives (http://catalog.ncsu.edu/ ategory-requirements/gep-interdisciplinary-	2-3
	rcise Studies (http://catalog.ncsu.edu/ ategory-requirements/gep-health-exercise-	1
Advised Elective		3
	Hours	13
Spring Semester		
TT 402	Textile Technology Senior Design II	4
	(http://catalog.ncsu.edu/undergraduate/	3
	ments/gep-social-sciences/)	
TT 431	Quality Management and Control In Textile Manufacturing	3
Advised Elective		3
	Hours	13
	Total Hours	120

<sup>&</sup>lt;sup>1</sup> Must be completed with a grade of C- or higher for major requirements