

# Fashion and Textile Design (BS): Textile Design Concentration

You might not have heard of textile design before, but you've certainly seen it, from the color and knit of your favorite cozy blanket to the prints that made brands like Marimekko, Lilly Pulitzer and Anna Sui famous. Textile designers make all the choices that decide the look, feel and performance of memorable and functional fabrics and trims.

Textile Design is one of two concentrations (<https://textiles.ncsu.edu/academics/undergraduate/textile-design/>) open to students majoring in fashion and textile design. You'll start out in a first-year studio learning the fundamentals of design before becoming more focused on your textile design experience in our state-of-the art labs and studios. Your college career culminates with a debut collection that you'll exhibit in a public showcase.

## Contact

For answers to questions about the admissions process, please contact:

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## Plan Requirements

Code	Title	Hours
<b>Orientation</b>		
T 101	Strategies for Success in the Wilson College of Textiles	1
<b>Mathematics and Sciences</b>		
MA 131 or MA 141	Calculus for Life and Management Sciences A Calculus I	3
MA 231 or MA 241	Calculus for Life and Management Sciences B Calculus II	3
CH 101	Chemistry - A Molecular Science	3
CH 102	General Chemistry Laboratory	1
PY 211 or PY 205 & PY 206	College Physics I Physics for Engineers and Scientists I and Physics for Engineers and Scientists I Laboratory	4
TMS 211	Introduction to Fiber Science	3
<b>Major Requirements</b>		
TT 105	Introduction to Textile Technology	3
TTM 106	Yarn Formation, Classification and Numbering Systems	1
FTM 217	The Textile Industry	3

FTD 200	Design Skills Workshop <sup>1</sup>	3
TT 252	Formation and Structure of Textile Fabrics <sup>1</sup>	4
FTD 201	Computer-Aided Textile Design and Color Studio <sup>1</sup>	6
FTM 282	Marketing and Brand Management Fundamentals in Textiles and Apparel	3
PCC 302	Technology of Textile Wet Processing	4
FTM 310	Entrepreneurship & New Product Development in Textiles	3
ADN 281	Drawing I	3
D 100	Design Inquiry I: Methods and Processes	3
D 101	Design Inquiry II: Methods and Processes	3
FTD 104	Fashion and Textile Design First Year Studio I	6
FTD 105	Fashion and Textile Design First Year Studio II	6

### Concentration Requirements

FTD 373	Yarn Design Studio <sup>1</sup>	3
FTD 374	Surface Design and Texture	3
FTD 375	Woven Textile Design Studio I <sup>1</sup>	3
FTD 376	Knitted Textile Design Studio I <sup>1</sup>	3
FTD 475	Woven Textile Design Studio II	3
FTD 476	Knitted Textile Design Studio II	3
FTD 479	Senior Textile Design Studio	6

### 18FTDFAS Advised Electives

FTD Advised Elective (p. 1)	6
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### GEP Courses

Acad Writing Research (p. 2) <sup>2</sup>	4
GEP Humanities ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/</a> )	6
GEP Social Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/</a> )	6
GEP Health and Exercise Studies ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/</a> )	2
GEP Elective ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/</a> )	3
GEP Global Knowledge ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-global-knowledge/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-global-knowledge/</a> ) (verify requirement)	
GEP Foundations of American Democracy ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-fad/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-fad/</a> ) (verify requirement)	
World Language Proficiency ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/world-language-proficiency/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/world-language-proficiency/</a> ) (verify requirement)	

<b>Total Hours</b>	<b>120</b>
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<sup>1</sup> C or better

## FTD Advised Elective

Code	Title	Hours
FTM 220	Principles of Retailing and Supply Chain Management in Textiles	3
FTM 310	Entrepreneurship & New Product Development in Textiles	3
FTM 315	Fashion Product Design	3
FTM 317	Computer Aided Fashion Design	3

FTM 318	Fashion Development Processes	3
FTM 320	Retail Merchandising in Fashion and Textiles	3
FTM 380	Management and Control of Textile and Apparel Systems	3
FTM 382	Brand Management in Textiles and Apparel	3
FTM 384	Visual Merchandising Principles and Management	3
FTM 385	Fashion and the Consumer	3
FTM 387	Textile Brand Communications & Promotions	3
FTM 400	Major Fashion Designers	3
FTM 415	Fashion Product Development	3
FTM 416	The Fashion Industry	3
FTM 420	Retail Buying in Fashion and Textiles	3
FTM 431	Quality Management and Control In Textile Manufacturing	3
FTM 460	Textile Market Research	3
FTM 480	Operations Management Decisions for Textiles	3
FTM 481	Product Costing in the Textile and Apparel Industry	3
FTM 482	Global Brand Management in Textiles and Apparel	3
FTM 483	Global Trade & Sourcing	3
FTM 484	Strategic Planning and Decision Making in the Textile and Fashion Industries	3
FTM 485	Textile Computer Integrated Enterprise	3
FTM 486	Supply Chain Management in the Textile Industry	3
FTM 487	Human Resource Management and Leadership in the Textile and Fashion Industries	3
FTM 490	Development Projects in Textile and Apparel Management	1-3
FTM 491	Special Topics in Textile and Apparel Management	1-4
FTM 494	International Industrial Internship in Textile Management	3
FTM 497	Senior Fashion Collection Studio	6
FTM 499	Textile Senior Project	4
PCC 201	Impact of Industry on the Environment and Society	3
TT 341	Knitted Fabric Technology	3
TT 380	Management and Control of Textile and Apparel Systems	3
TT 431	Quality Management and Control In Textile Manufacturing	3
TT 451	Advanced Woven Fabric Design	3
TT 480	Operations Management Decisions for Textiles	3
TT 485	Textile Computer Integrated Enterprise	3
TT 486	Supply Chain Management in the Textile Industry	3
TT 499	Textile Senior Project	4
TT 551	Advanced Woven Fabric Design	3

## Acad Writing Research

Code	Title	Hours
<b>Acad Writing Research</b>		
ENG 101	Academic Writing and Research	4
WLEN 101	Academic Writing and Research	4
<b>Transfer Sequence</b>		
ENG 202	Disciplinary Perspectives in Writing	3
ENG 1GEP		3

## Semester Sequence

This is a sample.

**Critical Path Courses:** Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.

### First Year

Fall Semester		Hours
ENG 101	Academic Writing and Research <sup>1</sup>	4
TT 105	Introduction to Textile Technology	3
D 100	Design Inquiry I: Methods and Processes	3
FTD 104	Fashion and Textile Design First Year Studio I (CP)	6
T 101	Strategies for Success in the Wilson College of Textiles	1
<b>Hours</b>		<b>17</b>

### Spring Semester

D 101	Design Inquiry II: Methods and Processes	3
FTD 200	Design Skills Workshop <sup>2</sup>	3
MA 131	Calculus for Life and Management Sciences A	3
FTD 105	Fashion and Textile Design First Year Studio II (CP)	6
GEP Health and Exercise Studies ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/</a> )		1
<b>Hours</b>		<b>16</b>

### Second Year

Fall Semester		Hours
FTD 201	Computer-Aided Textile Design and Color Studio (CP) <sup>2</sup>	6
FTM 217	The Textile Industry	3
PY 211	College Physics I	4
TTM 106	Yarn Formation, Classification and Numbering Systems	1
ADN 281	Drawing I	3
<b>Hours</b>		<b>17</b>

### Spring Semester

TMS 211	Introduction to Fiber Science	3
TT 252	Formation and Structure of Textile Fabrics (CP) <sup>2</sup>	4
FTD 373	Yarn Design Studio (CP) <sup>2</sup>	3
FTD 374	Surface Design and Texture (CP)	3
MA 231	Calculus for Life and Management Sciences B	3
GEP Health and Exercise Studies ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/</a> )		1
<b>Hours</b>		<b>17</b>

### Third Year

Fall Semester		Hours
FTM 310	Entrepreneurship & New Product Development in Textiles	3

FTD 375	Woven Textile Design Studio I (CP) <sup>2</sup>	3
FTD 376	Knitted Textile Design Studio I (CP) <sup>2</sup>	3
CH 101	Chemistry - A Molecular Science	3
CH 102	General Chemistry Laboratory	1
GEP Humanities ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/</a> )		3
<b>Hours</b>		<b>16</b>
<b>Spring Semester</b>		
FTD Advised Elective (p. 1)		3
FTM 282	Marketing and Brand Management Fundamentals in Textiles and Apparel	3
GEP Social Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/</a> )		3
FTD Advised Elective (p. 1)		3
<b>Hours</b>		<b>12</b>
<b>Fourth Year</b>		
<b>Fall Semester</b>		
FTD 475	Woven Textile Design Studio II	3
FTD 476	Knitted Textile Design Studio II	3
PCC 302	Technology of Textile Wet Processing	4
GEP Elective ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/</a> )		3
<b>Hours</b>		<b>13</b>
<b>Spring Semester</b>		
FTD 479	Senior Textile Design Studio	6
GEP Social Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/</a> )		3
GEP Humanities ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/</a> )		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> C- or better<sup>2</sup> C or better

## Career Opportunities

From art galleries to Nordstrom and The North Face to MIT, our textile design graduates are sought out by leading employers in just about every industry. Here are just a few of the places our alumni work.

- Apparel: The North Face, Kohl's, J. Crew, Nordstrom, Abercrombie & Fitch, St. John Knits
- Home Textiles: Valdese Weavers, Glen Raven, Mohawk Flooring

## Career Titles

- (Assistant, Associate) Textile Designer: Develop printed or woven fabric designs that align with the larger creative direction of a brand or line. This includes trend research, mood board development, and yarn and color selection before developing a computer-aided design (CAD) file for review. Associate and lead designers have more say in setting the creative direction than assistant designers.
- Print Designer: Create surface print designs for fabrics used in apparel, interior design and more, work with the creative team to make sure those designs fit within the company's larger brand, and then communicate those designs effectively to overseas vendors.

- Knit Designer/Knitwear Designer: Develop knit fabric designs – taking into account yarns, colors, stitches – for home and apparel uses.
- Woven Designer: Use knowledge of yarns, textile processing, woven technology and more to develop woven textile designs for home, apparel and other applications.
- Product Designer/Developer/Manager: Design products (eg. backpacks, scarfs, pillows, shoes) with a special focus on the textile and raw materials and work with merchandising, production, technical design and more to ensure the product design is executed correctly.
- Materials Developer: Develop the custom material and fabric for a product while considering technical performance needs, testing, sustainability and sourcing.
- Trims Developer: Design trims (zippers, piping and more) and branding elements (how logos are displayed) for apparel, home and automotive industries.
- Color Specialist: Conduct consumer research and apply knowledge of color theory, fiber science and color science to build a brand's color palettes and make sure those colors are represented correctly in a product.
- Studio or Lab Manager: Make sure all machines are operating, oversee purchasing of studio materials and equipment, and ensure students, artists or other employees reach their production goals.
- Freelance Designer/Entrepreneur

## Learn More About Careers

NCCareers.org (<https://nccareers.org/>)

Explore North Carolina's central online resource for students, parents, educators, job seekers and career counselors looking for high quality job and career information.

Occupational Outlook Handbook (<https://www.bls.gov/ooh/>)

Browse the Occupational Outlook Handbook published by the Bureau of Labor Statistics to view state and area employment and wage statistics. You can also identify and compare similar occupations based on your interests.

Career One Stop Videos (<https://www.careeronestop.org/>)

View videos that provide career details and information on wages, employment trends, skills needed, and more for any occupation. Sponsored by the U.S. Department of Labor.

Focus 2 Career Assessment (<https://careers.dasa.ncsu.edu/explore-careers/career-assessments/>) (NC State student email address required)  
This career, major and education planning system is available to current NC State students to learn about how your values, interests, competencies, and personality fit into the NC State majors and your future career. An NC State email address is required to create an account. Make an appointment with your career counselor (<https://careers.dasa.ncsu.edu/about/hours-appointments/>) to discuss the results.

Focus 2 Apply Assessment (<https://www.focus2career.com/Portal/Register.cfm?SID=1929>) (Available to prospective students)

A career assessment tool designed to support prospective students in exploring and choosing the right major and career path based on your unique personality, interests, skills and values. Get started with Focus 2 Apply and see how it can guide your journey at NC State.