

# Textile Technology Management (PhD)

## Degree Requirements

Code	Title	Hours	Counts towards
<b>Qualifying Courses</b>		<b>12</b>	
TTM 710	Textile Technology Management		
TTM 785	Doctoral Research Methods		
TTM 750	Advances in Fabric Formation, Structure, and Properties		
TTM 731	Decision Models and Applications in Textile and Apparel Management		
<b>Seminar Courses</b>		<b>2</b>	
TTM 801	Seminar <sup>1</sup>		
<b>Additional Courses <sup>2</sup></b>		<b>6</b>	
"Additional Courses" are approved in conjunction with the academic committee			
<b>Elective Courses</b>		<b>52</b>	
"Elective Courses" that will be applied to reach 72 credit hours will be determined in conjunction with the academic committee			
<b>Total Hours</b>		<b>72</b>	

<sup>1</sup> All students must complete two (2) semesters of TTM 801 Seminar (which may be waived for students who have taken TC 601 Seminar, TE 601 Seminar, or TT 601 Seminar during their master's program at NC State).

<sup>2</sup> Additionally, all students need to take a minimum of two (2) additional courses, which should be selected with input from the advisory committee and can be part of an "official minor", which will require approval from the Minor Director of Graduate Programs, or can be courses chosen to provide a better foundation for the research work.

## Additional Requirements

- A minimum of 72 credit hours is required of students entering the program with a B.S. degree, or a minimum of 54 credit hours beyond the M.S. degree is required. (Students, who enter the Ph.D. program directly upon completion of an M.S. at NC State, may be allowed credit for up to 30 hours of their M.S. and thus would require 42 additional credit hours to complete the Ph.D.) Most of these credit hours are expected to be research credits (TTM 893 Doctoral Supervised Research or TTM 895 Doctoral Dissertation Research).

- Following successful course completion, the student needs to pass the defense of a research proposal to obtain the candidacy for the Ph.D degree.
- The final examination is an oral exam where the student presents and defends her/his research procedures, results and conclusions. The presentation will be made to an examining committee consisting of the student's advisory committee and is open to interested faculty, staff and students. After the presentation the student will be orally examined by the examining committee. The final oral examination can be scheduled once all coursework requirements have been fulfilled and the committee is satisfied that the dissertation is complete, but not earlier than one semester after admission to candidacy.
- The anticipated time for completion of the Ph.D. program is four years for a student entering from a B.S. degree and three years for entry from an M.S. degree. The minimum time required (in exceptional cases) is two years beyond entry if the student obtained an M.S. degree from NC State.

Roger Barker

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Harold Freeman

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David Hinks

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Traci Lamar

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Marquerite Moore

Melissa Pasquinelli

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Jon Rust	Cassandra Kwon
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Renzo Shamey	Henry Nuttle
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Emiel DenHartog	Perry Grady
Wei Gao	Bhupender Gupta
Helmut Hergeth	Thom Hodgson
George Hodge	Stephen Margolis
Richard Kotek	John McCreery
Wendy Krause	Stephen Michielsen
Jerome Lavelle	Gary Mock
Lisa Parrillo-Chapman	Mansour Mohamed
Lori Rothenberg	William Oxenham
Sonja Salmon	Nancy Powell
Minyoung Suh	Carl Smith
Andre West	Gary Smith
Xiaomeng Fang	Moon Won Suh
Ericka Ford	Charles Tomasino
Jessica Gluck	James Wilson
Chan Mi Hwang	Samuel Winchester
Delisia Matthews	Genevieve Garland
Robert Ormond	Abhay Sham Joijode
Jane Porterfield	Mohamad Samir Midani
Elizabeth Powell	Samuel Moore
Eunyoung Shim	Behnam Pourdeyhimi
Januka Budhathoki Uprey	Antony J. Williams
Jamie Woodbridge	Julie Ann Willoughby
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