# Textile Technology Management (PhD)

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualifying Courses</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>TTM 710</td>
<td>Textile Technology Management</td>
<td></td>
</tr>
<tr>
<td>TTM 785</td>
<td>Doctoral Research Methods</td>
<td></td>
</tr>
<tr>
<td>TTM 750</td>
<td>Advances in Fabric Formation, Structure, and Properties</td>
<td></td>
</tr>
<tr>
<td>TTM 731</td>
<td>Decision Models and Applications in Textile and Apparel Management</td>
<td></td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Seminar Courses</td>
<td></td>
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<tr>
<td>TTM 801</td>
<td>Seminar</td>
<td></td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Courses</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1. 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 TTM 601 Seminar during their master’s program at NC State).

2. 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 Courses

- 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.

### Full Professors

- Roger Barker
- Keith Beck
- Timothy Clapp
- Ahmed Mohamed El-Shafei
- Shu-Cherng Fang
- Harold Freeman
- Tushar Ghosh
- A. Blanton Godfrey
- Russell Gorga
- Maureen Grasso
- Robert Handfield
- Peter Hauser
- David Hinks
- Cynthia Istook
- Warren Jasper
- Byoungho Jin
- Jeffrey Joines
- Martin King
- Russell King
- Traci Lamar
- Karen Leonas
- Trevor Little
- Marquerite Moore
- Melissa Pasquinelli
- Behnam Pourdeyhimi
- Michael Rappa
- Jon Rust
- Abdel-fattah Mohamed Seyam
- Renzo Shamey
- Yingjiao Xu
Associate Professors
Katherine Emma Annett-Hitchcock
Pamela Banks-Lee
Kristin Barletta
Philip Bradford
Emiel DenHartog
Wei Gao
Helmut Hergeth
George Hodge
Richard Kotek
Wendy Krause
Jerome Lavelle
Lisa Parrillo-Chapman
Lori Rothenberg
Sonja Salmon
Minyoung Suh
Andre West

Assistant Professors
Xiaomeng Fang
Ericka Ford
Jessica Gluck
Delisia Matthews
Robert Ormond
Jane Porterfield
Elizabeth Powell
Eunkyoung Shim
Januka Budhathoki Upreti
Jamie Woodbridge
Rong Yin
Mengmeng Zhu

Emeritus Faculty
Robert Barnhardt
Subhash Batra
Stephen Chapman
Robert Donaldson
Aly El-Shiekh
Perry Grady
Bhupender Gupta
Thom Hodgson
Duncan Holthausen
Stephen Margolis
John McCreery
Stephen Michielsen
Gary Mock
Mansour Mohamed
William Oxenham
Nancy Powell
Carl Smith
Gary Smith
Moon Won Suh
Charles Tomasino
James Wilson
Samuel Winchester

Adjunct Faculty
Genevieve Garland
Abhay Sham Jojode
Samuel Moore
Behnam Pourdeyhimi
Antony J. Williams
Julie Ann Willoughby
Bong-Yeol Yeom