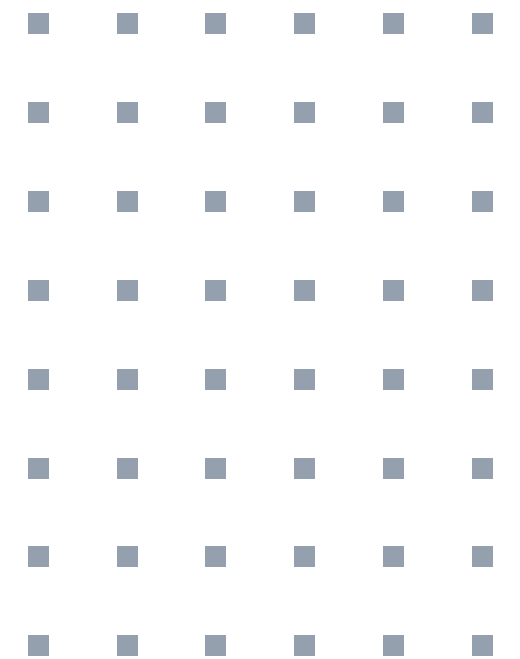


CARDED NONWOVENS

SHORT COURSE
APRIL 1-3, 2025



[THENONWOVENSINSTITUTE.COM](https://thenonwovensinstitute.com)
NONWOVENS@NCSTU.EDU



If you attend this course, you will:



- **Learn how to exploit machine design, process and raw materials** to optimize efficiency and improve the quality of end products.
- **Get expert insight into nonwoven markets and applications** for carded nonwoven technology.
- **Gain an understanding of the nonwoven fabrics industry** and the significant role carded nonwovens play in the world today.

REGISTER NOW!



Presented in partnership with:



Tuesday April 1

8:00	8:30	Networking and Light Breakfast
8:30	9:00	Introductions & Class Objectives
9:00	10:00	Structure of Nonwovens
10:00	10:45	Fiber Orientation Distribution and Structure Uniformity
10:45	11:00	Break
11:00	12:00	Fiber Orientation and Structure Uniformity Demonstration
12:00	1:00	Networking Lunch
1:00	3:00	Opening, Blending, Carding, Crosslapping Principles
3:00	3:15	Break
3:15	5:00	Hydroentangling Principles
5:00	5:30	Wrap-Up & Q&A

Wednesday April 2

8:00	8:30	Networking and Light Breakfast
8:30	9:30	Practical Aspects of Blending and Carding
9:30	10:30	Needle-Punching and Structure-Property Relationships
10:30	10:45	Break
10:45	12:00	Practical Aspects of Needling -- The Importance of Needling Parameters on Performance
12:00	1:00	Networking Lunch
1:00	2:00	Staple Lab Tour, Description of Components and Planning
2:00	2:15	Break
2:15	3:15	Needle-Board Preparation and Demonstration
3:15	4:00	Opening, Blending, Carding Demonstration
4:00	5:00	Testing of Samples
5:00	7:30	Networking Reception

Thursday April 3

8:00	8:30	Networking and Light Breakfast
8:30	9:00	Practical Aspects of Hydroentangling
9:00	10:00	Hydroentangling Nozzles, Waterjets and Mechanism of Entangling
10:00	10:15	Break
10:15	11:15	Hydroentangling Lab Tour, Description of Components
11:15	12:15	NWI Fabrication and Testing Lab Tour (Analytical, Filtration, Fiber and Polymer Science, Meltblown, Spunbond)
12:15	1:00	Networking Lunch
1:00	1:30	Wrap-Up and Q&A