

Carded Nonwovens Technology Short Course Agenda (April 1-3, 2025)

The Nonwovens Institute (NWI)
Center for Technology and Innovation
NC State University

Tuesday, April 1

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

Wednesday, April 2

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

Thursday, April 3

8:00 am	Networking and Light Breakfast
8:30 am	Practical Aspects of Hydroentangling
9:00 am	Hydroentangling Nozzles, Waterjets and Mechanism of Entangling

10:00 am	Break
10:15 am	Hydroentangling Lab Tour, Description of Components
11:15 pm	NWI Fabrication and Testing Lab Tour (Analytical, Filtration, Fiber and Polymer Science, Meltblown, Spunbond)
12:15 pm	Networking Lunch
1:00 pm	Wrap-up and Q&A