# Textile 101 Outline/Agoenda —— 2020

1. Natural Fibers
   - New products
   - Properties

2. Synthetic Fibers
   - Polymerization, spinning, POY, drawing
   - Filament vs staple production
   - Cross sections, crimping, finish application
   - Properties

3. Staple fiber processing
   - Short staple processing steps --opening thru roving
   - Properties

4. Staple spinning systems
   - Yarn spinning systems (ring, open end and air jet)
   - Yarn properties

5. Yarn Numbering Systems
   - Yarn designations, terminology
   - Denier vs cotton count
   - DPF, microdenier

6. Fabric Constructions
   - Design Parameters ---aesthetics vs performance
   - Wovens, knits, nonwovens
   - Hands on fabric analysis
       - Classes held at Textile Technology Center
       - 7220 Wilkinson Blvd / Highway 74
       - Belmont, NC
       - 8:30 AM-12:30 PM (4 hours)
   - Fee to attend: $95.00

7. Dyeing and Finishing
   - Coloration options --solution dye, stock dye, yarn dye, fabric dye
   - Dyeing procedures and dyeing issues
   - Printing options
   - Fabric finishing techniques/ options

8. Product Testing

9. Emerging Trends/Technologies
       —— Suzette McHugh ---Textile Technology Center
       —— 704-661-8787
       —— suzette.mchugh@gmail.com