Introduction to Nonwovens Products and Processes (3 credit hours)
This course introduces the fundamentals of nonwoven structures, process, and products. It provides performance criteria, raw materials, manufacturing methods, and market outlooks of major nonwoven application segments including hygiene, wipes, filters, medical, automotive, and geotextile. Emphasis is placed on building basic understandings of process/structure/property relationship in nonwoven product and the economic justification for process and production.
Prerequisite: (MA 131 or 141), PY 205; Corequisite: TT 503
Typically offered in Fall only

Advanced Nonwovens Processing (3 credit hours)
Mechanisms used in the production of nonwoven materials. Design and operation of these mechanisms. Process flow, optimization of process parameters, influence of process parameters on product properties.
Prerequisite: MA 231 or MA 241, PY 211 or (PY 205 and PY 206), TT 305 or TT 404
Typically offered in Spring only

Nonwoven Product Development (3 credit hours)
Prerequisites: TT 405 and TT 407
Typically offered in Spring only

Materials, Polymers, and Fibers used in Nonwovens (3 credit hours)
Fundamentals of raw material used in nonwoven processes. Raw material production, chemical and physical properties of nonwoven raw materials and assessment of material properties. Introduction of structure/property relationships for these materials and how these relationships influence end use applications.
Prerequisite: MA 141, PY 205, PCC 203
Typically offered in Fall and Spring

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Prerequisite: (MA 131 or 141), PY 205; Corequisite: TT 503
Typically offered in Fall only