MASTER OF POLYMER SCIENCE AND POLYMER ENGINEERING

This degree prepares individuals with a bachelor’s degree in a technical area to work in polymer or polymer-related industries, consulting, or venture capital firms in non-research position requiring both a broad familiarity with fundamentals of polymer science and polymer engineering and some knowledge business and law. The program deepens technical knowledge in the polymer field while providing nontechnical skills needed by team leaders, managers, and supervisors to make technology-mindful decisions.

Admission Requirements

• Bachelor’s degree in a STEM (Science, Technology, Engineering, or Mathematics) discipline
• GRE
• Personal Statement
• Resume
• Letters of Recommendation

Degree Requirements – 30 credits

Technical Core Courses – 18 credits

• 9801:605 Polymer Physical Chemistry (4 credits)
• 9801:615 Polymer Characterization (4 credits)
• 9801:635 Rheology, Processing and Evaluation of Polymeric Materials (4 credits)
• 9801:645 Research, Problem Solving and Communication of Technical Information (3 credits)
• 9801:665 Emerging Markets & Technologies (3 credits)

Business and Law Core Courses – 9 credits

• 6500:601 Business Analytics and Information Strategy (3 credits)
• 6500:678 Project Management (3 credits)
• 9200:800 Fundamentals of Intellectual Property (3 credits)

Electives – 3 credits (from Polymer Science and Polymer Engineering or Business)

• 6200:601 Financial Accounting (3 credits)
• 6400:602 Managerial Finance (3 credits)
• 6500:670 Management of Supply Chains and Operations (3 credits)
• 6500:675 Global Supply Chain Management (3 credits)
• 6600:620 Strategic Marketing (3 credits)
• 6600:625 Brand Management (3 credits)
• 6600:635 Digital Marketing (3 credits)
• 9841:797 Advanced Topics in Polymer Engineering (2-3 credits)
• 9871:631 Polymer Physics I (4 credits)
• 9871:711 Special Topics: Polymer Science (1-3 credits)
• 9871:712 Special Topics: Polymer Science (2 credits)