ENGINEERING: POLYMER ENGINEERING, M.ENG.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
No	No	Yes	No	No

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments.

Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW-Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirements	Detail
Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	Half of degree coursework (15 credits out of 30 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide (https://registrar.wisc.edu/course-guide (https://registrar.wisc.edu/course-guide/)/).
Overall Graduate GPA Requirement	3.00 GPA required.
Other Grade Requirements	Must retake any courses for which a grade below C is recorded.
Assessments and Examinations	No formal examination is required.
Language Requirements	None.

REQUIRED COURSES

This degree is geared toward those with an academic background in Engineering (Chemical, Mechanical, Materials, Biomedical, Biological Systems, Civil, Etc). Students entering the program are expected to have completed an undergraduate degree in an Engineering Field, or Chemistry, Biochemistry, Food Science or Physics. Students may be admitted with deficiency on a case-by-case basis, but will be expected to complete the necessary leveling courses.

Code	Title	Credits
Required Courses		
E P D 636	Introduction to Polymers	3
E P D 637	Polymer Characterization	3
M E 417	Transport Phenomena in Polymer Processing	3
M E 418	Engineering Design with Polymers	3
Electives		**18**
E P D 638	Polymer Coatings	
E P D 639	Plastics Recycling and Sustainability	
M E 419	Fundamentals of Injection Molding	
M E/BSE/ FOOD SCI 441	Rheology of Foods and Biomaterials	
M E/CIV ENGR/ E M A 508	Composite Materials	
M E 514	Additive Manufacturing	
M E/E M A 570	Experimental Mechanics	
M E 699	Advanced Independent Study	
M E 717	Advanced Polymer Processing	
M E 718	Modeling and Simulation in Polymer Processing	
M E/E M A 722	Introduction to Polymer Rheology	
Total Credits		**30**