

ENGINEERING: POLYMER ENGINEERING, MENG

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirements>) and policies (<https://guide.wisc.edu/graduate/#policies>), 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 typically take enough credits aimed at completing the program in a year or two.

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

Requirement Detail

Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	24 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/).

Overall	3.00 GPA required.
Graduate GPA Requirement	Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/).

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 No language requirements.

REQUIRED COURSES

Code	Title	Credits
Core		
Students must complete the following courses.		
E P D 636	Introduction to Polymers	3
E P D 637	Polymer Characterization	3
E P D 639	Plastics Recycling and Sustainability	3
E P D 640	Introductory Polymer Rheology	3
E P D 650	Introduction to Polymers Processing	3
Manufacturing/Management Course		
Select one of the following:		3
I SY E 618	Quality Engineering and Quality Management	
E P D 416	Engineering Applications of Statistics	
E P D 611	Engineering Economics and Management	
E P D 612	Technical Project Management	
E P D 617	Communicating Technical Information	
E P D 660	Core Competencies of Sustainability	
E P D 678	Supply Chain Management for Engineers	
Electives		
Select from the following:		12
M E 417	Transport Phenomena in Polymer Processing	
M E 418	Engineering Design with Polymers	
M E 419	Fundamentals of Injection Molding	
E P D 638	Polymer Coatings and Adhesives	
M E/CIV ENGR/ E M A 508	Composite Materials	
E P D 605	Fundamentals of Technical Project Management	
or E P D/ GEN BUS/ OTM 784	Project Management Essentials	
E P D 606	Leading and Managing Technical Teams	
or E P D/ GEN BUS/ M H R 783	Leading Teams	
E P D 701	Writing for Professionals	

E P D 702	Professional Presentations
E P D 704	Organizational Communication and Problem Solving
E P D 706	Change Management
E P D 708	Creating Breakthrough Innovations
E P D 710	Foundations of Engineering Leadership
E P D 712	Ethics for Professionals
E P D/ACCT I S/ GEN BUS 781	Financial and Business Acumen
E P D/GEN BUS/ MARKETNG 782	Marketing for Non-Marketing Professionals
E P D/GEN BUS/ M H R 785	Effective Negotiation Strategies
M E 514	Polymer 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
Up to 6 credits from other College of Engineering subjects with Advisor approval	

Total Credits**30****Other Policy**

Students in this program may not take courses outside the prescribed curriculum without faculty advisor and program director approval. Students in this program cannot enroll concurrently in other undergraduate or graduate degree programs.