

2025-2026
Academic Year

Polymer Materials Engineering, BS



Degree Credits: 151 (GURs not included)

Admissions info: <https://engineeringdesign.wvu.edu/>

Course offerings subject to change

Academic advising available - see contact info below

Pre-major coursework in grey areas

Full major courses in white

Fall

Winter

Spring

First Year	MATH 124 (5) Calculus 1	FWS	MATH 125 (5) Calculus II	FWS	ENGR 115 (4) Innovation in Design	FWS
	CHEM 161 (5) Gen Chemistry I	FWS	PHYS 161 (5) Physics w/ Calc I	FW	PHYS 162 (5) Physics w/ Calc II	WS
	ENGR 101 (3) Eng, Design, & Society (BCGM)	FWS	CHEM 162 (5) Gen Chemistry II	FWS		

Second Year	ENGR 170 (4) Intro to Material Science	FW	APPLY TO FULL MAJOR		FULL MAJOR COURSES BEGIN	
	ENGR 214 (4) Statics	FW	CSCI 141 (4) Program. Fundamentals	FWS	MFGE 250 (4) Intro Manuf. Automation	S
	PHYS 163 (5) Physics w/ Calc III	FS	ENGR 225 (4) Mechanics of Materials	WS	MFGE 261 (4) Intro to CAD	S
			MATH 341 or 345 (4) Statistics	FWS	PME 371 (5) Intro to Plastics	FS

Eligible pre-majors apply to the major during winter quarter. Accepted students start major courses spring quarter.

Third Year	CHEM 251 (4) Elem. Organic Chemistry	F	PME 342 (4) Design of Experiments	WS	CHEM 308 (3) Polymer Chemistry	S
	MFGE 231 (4) Intro to Manuf. Processes	FS	PME 372 (5) Intro to Composites	W	MFGE 462 (4) CAD Using Surfaces	WS
	MFGE 341 (4) Quality Assurance	FW	Tech Elective		PME 331 (4) Injection Molding	S

Fourth Year	PME 491 (WP) (3) Project Research	F	PME 492 (WP) (3) Project Proposal	W	PME 493 (4) Project Implementation	S
	PME 471 (4) Adv Materials & Char.	F	PME 431 (4) Adv Materials and Proc	W	PME 461 (4) Tooling for Plastics	S
	PME 472 (4) Advanced Composites	F	MFGE 332 (4) Intro To CAM & CNC	FW	Tech Elective	
	Tech Elective		Tech Elective			

Engineering & Design

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ENGD@wwu.edu | 360.650.3380

<http://engineeringdesign.wvu.edu>

NOTES & EXCEPTIONS

Students must complete **General University Requirements (GURs)** in addition to major courses.

Math 341 may be substituted for MATH 345.

Students must complete 13 credits of tech. electives - seek advising for specifics.

Full majors must complete PHYS 163 by the end of spring quarter year 3.

Full majors must complete PME 342 and ENGR 225 by the end of winter quarter year 3.

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Admissions

Students must first be accepted by the university. **The program accepts major applications during winter quarter only.** Accepted students start major coursework spring quarter. Transfer students may apply at the same time if required coursework is complete or in progress.

Required coursework to apply		Required short answer questions	Admissions Statistics
MATH 124	Calculus I	Students must answer a set of short answer questions on the application. The questions are related to the applicant's career goals, interest in the degree, academic successes/challenges, leadership experience, etc.	<pre> graph TD A[19-32 Applicants] --> B[24 Accepted] B --> C[3.20 Average GPA] </pre>
MATH 125	Calculus II		
CHEM 161	General Chemistry I	Applications due: Winter Quarter See website for due date. Accepted students start major coursework spring quarter. Applicants are notified of decisions before spring quarter registration begins.	
CHEM 162	General Chemistry II		
PHYS 161	Physics w/ Calculus I		
ENGR 101*	Engineering, Design, and Society		
ENGR 115	Engineering Innovation		
ENGR 170	Intro to Materials Science & Engineering		
ENGR 214	Statics		
*May be waived for new transfer students.			
Students may be enrolled in no more than 4 required courses at the time of application.			
Recommended, but not required to apply		Transfer students	
MATH 345/341	Engineering Statistics	Transfer students are encouraged to contact the pre-major advisor to discuss course equivalencies and recommended time to transfer.	
PHYS 162	Physics w/ Calculus II		
PHYS 163	Physics w/ Calculus III		
CSCI 140/141	Programming Fundamentals		
ENGR 225	Mechanics of Materials		

Technical Electives

13 credits required. See website for list of approved courses and specific rules. Faculty advisors must approve courses not on this list. # of technical electives required varies depending on the declaration year.

Faculty Contact Information

Professor Nicole Larson, larsonn4@wwu.edu
 Associate Professor John Misasi, misasij@wwu.edu

Assistant Professor Peng Gao, gaop@wwu.edu
 Associate Professor Mark Peyron, mpeyron@wwu.edu