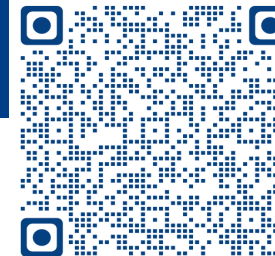


2023-2024  
Academic Year

# Polymer Materials Engineering, BS



Major Credits: 150 (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
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First Year	MATH 124 (5) Calculus 1      FWS	MATH 125 (5) Calculus II      FWS	PHYS 162 (5) Physics w/ Calc II      WS
	CHEM 161 (5) Gen Chemistry I      FWS	PHYS 161 (5) Physics w/ Calc I      FW	ENGR 115 (4) Innovation in Design      WS
	ENGR 101 (2) Eng., Design, & Society      FWS	CHEM 162 (5) Gen Chemistry II      FWS	

Second Year	ENGR 170 (4) Intro to Material Science      FW	<b>APPLY TO FULL MAJOR</b>	<b>FULL MAJOR COURSES BEGIN</b>
	ENGR 214 (4) Statics      FW	ENGR 225 (4) Mechanics of Materials      WS	MFGE 261 (4) Intro to CAD      S
	PHYS 163 (5) Physics w/ Calc III      FS	CSCI 140 or 141 (4) Program. Fund.      FWS	PME 371 (5) Intro to Plastics      FS
		MATH 341 or 345 Statistics (4)      FWS	MFGE 250 (4) Intro Manuf. Automation      S

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

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

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**  
 516 High Street, Bellingham, WA 98229  
[ENGD@wwu.edu](mailto:ENGD@wwu.edu) | 360.650.3380  
<http://engineeringdesign.wvu.edu>  
  
**Pre-major Advisor: Lisa Ochs**  
 360.650.4132      [lisa.ochs@wwu.edu](mailto:lisa.ochs@wwu.edu)

**NOTES & EXCEPTIONS**

Math 341 may be substituted for MATH 345. CSCI 141 may be substituted for 140.  
 Students must complete 9-13 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.  
 Student must complete General University Requirements in addition to major courses.

# Polymer Materials Engineering, BS



## 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

MATH 124	Calculus I
MATH 125	Calculus II
CHEM 161	General Chemistry I
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

\*waived for transfer students

students may be enrolled in no more than 3 required courses at application

### Recommended, but not required to apply

MATH 345/341	Engineering Statistics
PHYS 162	Physics w/ Calculus II
PHYS 163	Physics w/ Calculus III
CSCI 140/141	Programming Fundamentals
ENGR 225	Mechanics of Materials

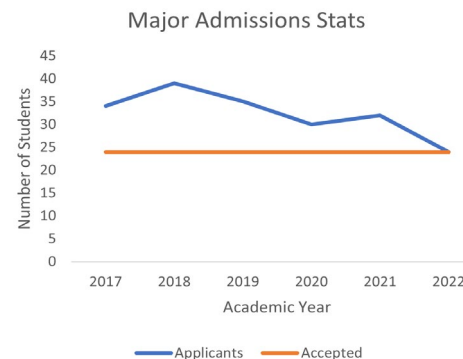
### Applications due

Applications are due during winter quarter annually. See website for due date. Accepted students start major coursework spring quarter. Applicants are notified of decisions before spring quarter registration.

### Required short answer questions

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.

### Admissions Statistics



## Technical Electives

9-13 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](mailto:larsonn4@wwu.edu)

Associate Professor John Misasi, [misasi@wwu.edu](mailto:misasi@wwu.edu)

Assistant Professor Peng Gao, [gaop@wwu.edu](mailto:gaop@wwu.edu)

Professor Nicole Hoekstra, [hoekstra@wwu.edu](mailto:hoekstra@wwu.edu)

Associate Professor Mark Peyron, [mpeyron@wwu.edu](mailto:mpeyron@wwu.edu)

updated: November 2023