

2022-2023  
Academic Year

# Polymer Materials Engineering, BS



Major Credits: 150 (GURs not included)  
Course offerings subject to change

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

Academic advising available - see contact information 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	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 FW	CHEM 162 (5) Gen Chemistry II FWS	
Second Year	ENGR 170 (4) Intro to Material Science FW	APPLY TO FULL MAJOR	
	ENGR 214 (4) Statics FW	ENGR 225 (4) Mechanics of Materials WS	FULL MAJOR COURSES BEGIN
	PHYS 163 (5) Physics w/ Calc III FS	CSCI 140 or 141 (4) Program. Fund. FWS	MFGE 261 (4) Intro to CAD S
		MATH 345 (4) Engineering Statistics FWS	PME 371 (5) Intro to Plastics FS
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	ENGR 351 (4) Electronics for Engineers FW	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	

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

## 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 credits of tech. electives - see website for approved courses

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

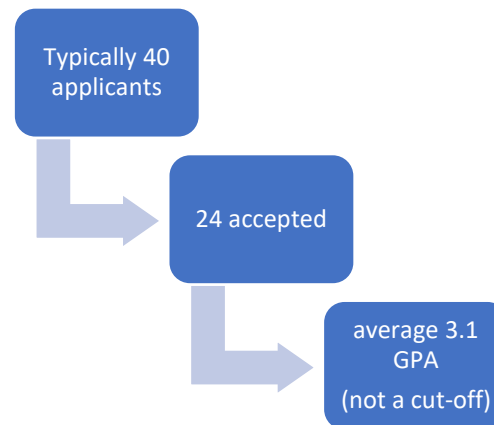
MATH 345	Engineering Statistics
PHYS 162	Physics w/ Calculus II
PHYS 163	Physics w/ Calculus III
CSCI 140	Programming Fundamentals
ENGR 225	Mechanics of Materials

### Required essay

The program requires applicants to submit a one page or 500 words maximum essay explaining why they want to pursue a degree in PME.

### Applications due

Applications due the first Friday in February every year. Accepted students start major coursework spring quarter. Applicants are notified of decisions before spring quarter registration.



## Technical Electives

Majors are required to complete 9 technical electives before graduation. See website for approved list of elective courses. Faculty advisors must approve courses not on this list.

## Faculty Contact Information

Professor Nicole Larson, [larsonn4@wwu.edu](mailto:larsonn4@wwu.edu)  
Associate Professor John Misasi, [misasij@wwu.edu](mailto:misasij@wwu.edu)

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