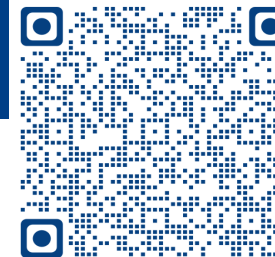


2023-2024
Academic Year

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	APPLY TO FULL MAJOR	FULL MAJOR COURSES BEGIN
	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 <u>FS</u>
		MATH 345 (4) Engineering Statistics 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 <u>FW</u>	PME 342 (4) Design of Experiments <u>WS</u>	PME 331 (4) Injection Molding S
	MFGE 231 (4) Intro to Manuf. Processes <u>FS</u>	ENGR 351 (4) Electronics for Engineers <u>FW</u>	MFGE 462 (4) CAD Using Surfaces <u>WS</u>

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 <u>FW</u>	Tech Elective
	Tech Elective	Tech Elective	

Engineering & Design

516 High Street, Bellingham, WA 98229

ENGD@wwu.edu | 360.650.3380

<http://engineeringdesign.wvu.edu>

Pre-major Advisor: Lisa Ochs

360.650.4132 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

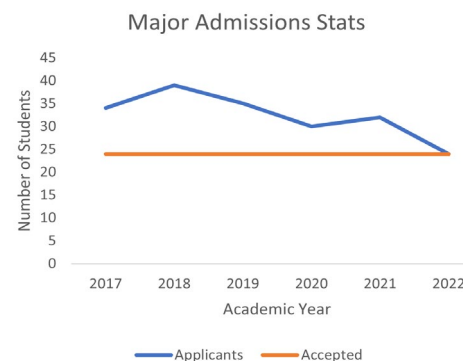
Applications due

Applications are due the first Friday in February every year. 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 credits required. Max of 5 may be research or ind. study credits. See website for approved list of approved courses. 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

Professor Nicole Hoekstra, hoekstra@wwu.edu
Associate Professor Mark Peyron, mpeyron@wwu.edu

updated: May 2023