2024-2025 Academic Year

Second Year

Polymer Materials Engineering, BS



Major Credits: 151 (GURs not included)

Admissions info: https://engineeringdesign.wwu.edu/

Course offerings subject to change

Academic advising available - see contact info below

Pre-major coursework in grey areas Full major courses in white

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

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

Winter

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

	ingible pre-majors apply to the major during	winter quarter. Accepted students star	i 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>F</u> W	PME 342 (4) Design of Experiments <u>W</u> S	PME 331 (4) Injection Molding S
	MFGE 231 (4) Intro to Manuf. Processes FS	Tech Elective	MFGE 462 (4) CAD Using Surfaces WS
			-
_	PME 491 (WP) (3) Project Research F	PME 492 (WP) (3) Project Proposal W	PME 493 (4) Project Implementation S
Fourth Year	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 | 360.650.3380

http://engineeringdesign.wwu.edu

Pre-major Advisor: Lisa Ochs

360.650.4132 lisa.ochs@wwu.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.

Polymer Materials Engineering, BS



Admissions Statistics

Academic Years

2019-2024

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 c	OHICOMOR	to ann	w
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General Chemistry I

General Chemistry II

Physics w/ Calculus I

Engineering Innovation

Engineering, Design, and Society

Intro to Materials Science & Engineering

Calculus I

Calculus II

Applications are due during winter quarter annually. See website for due date. Accepted students start major

Applications due

are notified of decisions before spring

quarter registration.

coursework spring quarter. Applicants

19-32 **Applicants**







3.20 Average GPA

*may be waived for new transfer students

Statics

MATH 124

MATH 125

CHEM 161

CHEM 162

PHYS 161

ENGR 101*

ENGR 115

ENGR 170

ENGR 214

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

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, intest in the degree, academic successes/challenges, leadership experience, etc.

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

udpated:March 2024