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Manufacturing Engineering, BS



ABET accredited

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

Course offerings subject to change

Academic advising available - see contact info below

Major Credits: 151-155 (GURs not included)

Pre-major coursework in grey areas



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First year	MATH 124 (5) Calculus I, <u>F</u> WS	MATH 125 (5) Calculus II, FWS	MATH 224 (5) Multiv. Calc and Geom., FWS	
	PHYS 161 (5) Physics w/ Calculus I, FW	PHYS 162 (5) Physics w/ Calculus II, WS	PHYS 163 (5) Physics w/ Calculus III, FS	
	ENGR 101 (3) Eng., Design, & Society FWS	ENGR 115 (4) Innovationin Design, WS	CHEM 161 (5) Gen. Chemistry I, FWS	
Pre-major courses in BOLD are required for major admissions.				
Second Year	MATH 204 (4) Elem. Linear Algebra, FWS	APPLY TO MAJOR	MAJOR COURSES BEGIN	
	ENGR 170 (4) Intro Material Science, <u>F</u> W	MATH 331 (4) Differential Equations, FWS	MFGE 231 (4) Intro to Manuf. Processes, FS	
	ENGR 214 (4) Statics, <u>F</u> W	ENGR 225(4) Mechanics of Materials, WS	MFGE 261 (4) Intro to CAD, S	
		MATH 345 or 341 (4) Statistics FWS	MFGE 250 (4) Intro to Automation, S	

	PME 371 (5) Intro to Plastics, <u>F</u> S	MFGE 341(4) Quality & Cont. Improvement,F <u>W</u>	PME 342 (4) Design of Experiment, WS
Third Year	ENGR 351 (4) Electronics for Engineers, FS	MFGE 333 (4) Design for Manufacture, W	MFGE 381 (4) Manufacturing Process Plan, S
수	MFGE 332 (4) Intro to CAM & CNC, <u>F</u> W	MFGE 340 (4) Numerical Methods, W	ENGR 352 (4) Intro Automation & Control, S
			MFGE 365 (4) Machine Design, W

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MFGE 491 (3) Project Research (WP), F	MFGE 492 (3) Project Proposal (WP), W	MFGE 493 (4) Project Implementation, S	
MFGE 463 (4) Design of Tooling, F	Tech Elective	PME 372 (5) Intro to Composites, W <u>S</u>	
MFGE 453 (4) Industrial Robotics, F	Choose one of: MFGE 454 or 462 or 434, if more then 1, count as a tech elective		
Tech Elective	Tech Electives: 6-10 credits required		

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516 High Street, Bellingham, WA 98229

ENGD@wwu.edu | 360.650.3380

http://engineeringdesign.wwu.edu

Pre-major Advisor:

Lisa Ochs lisa.ochs@wwu.edu

Notes and Excetions

Students must complete General University Requirements in addition to major courses

Students not enrolled in MATH 124 and PHYS 161 fall quarter, may not finish in four years

Math 341 may be substituted for MATH 345

Students must complete at minimum 6 credits of technical electives

Manufacturing Engineering, BS



Major Admissions

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

Required coursework to apply Admissions statistics Required short answer portion Applicants are required to answer a set of **MATH 124** Calculus L Academic Years short answer questions. The questions ask 2018-2024 **MATH 125** Calculus II about the applicant's career goals, interest in **MATH 224** Multivariable Calculus & Geometry I the program, leadership and teamwork experience, and academic challenges and/or **MATH 204** Linear Algebra 23-40 successes. **CHEM 161** General Chemistry I applicants **PHYS 161** Physics w/ Calculus I **PHYS 162** Physics w/ Calculus II 24 Applications due: Winter Quarter **FNGR 101*** Engineering, Design, and Society accepted See website for due date. Accepted students **ENGR 115** Engineering, Innovation, & Design start major coursework spring quarter. **ENGR 170** Intro to Materials Science & Engineering Applicants are notified of decisions before **FNGR 214** Statics spring quarter registration begins. * may be waived for transfer students, ask advisor avergage Students may be enrolled in no more than 4 of the required courses GPA - 3.25 at time of application. Recommended but not required to apply Transfer students **ENGR 225** Mechanics of Materials Transfer students are encouraged to contact the pre-major advisor to discuss course **MATH 331 Differential Equations** equivlancies and recommended time to **Engineering Statistics** MATH 345 or 341 transfer. **PHYS 163** Physics w/ Calculus III

Technical Electives

Students are required to complete 6-10 credits of technical electives. See website for approved list of courses. Faculty advisors must approve courses not on this list.

Faculty Contact Information

Associate Professor David Gill, gilld2@wwu.edu
Associate Professor Sura Algudah, algudas@wwu.edu

Associate Professor Tarek Algeddawy, algeddt@wwu.edu Professor Derek Yip-Hoi, yiphoid@wwu.edu

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