

College of Science, Technology, Engineering, and Mathematics

Manufacturing Technology BS

(106-127 credits)

Why study Manufacturing Technology, Process Option?

The Process option focuses on select areas of the manufacturing field, CNC machining, CAD, quality assurance, and methods of metallic and non-metallic materials processing in the design and fabrication of consumable items. This option prepares the student to enter and progress in industry in a variety of areas including, quality assurance, inventory control, production line supervision or process management.

Other Degree Options

Minors in Applied Technology, Construction Management, Manufacturing, and Mechanical Engineering

Career Opportunities

Students graduating from this program can successfully enter careers in a range of fields such as manufacturing technicians, applications technicians, quality technicians, as well as research technicians and technical sales and service.



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<http://www.ewu.edu/cstem>

This is an example of a four year class schedule. Academic Advisors are there to help create individualized plans.

	Q1	Q2	Q3
First Year	BACR (5 cr.)	General Elective (5 cr.)	BACR (5 cr.)
	MATH 142 or MATH 107 (5 c	ENGL 201 (5 cr.)	General Elective (3 cr.)
	ENGL 101 (5 cr.)	TECH 110 (5 cr.)	General Elective (5 cr.)
			MENG 217 or TECH 217 (4 cr
	Q5	Q6	Q7
Second Year	General Elective (5 cr.)	BACR (5 cr.)	BACR (5 cr.)
	MNTC 301 (5 cr.)	CHEM 121 (GECR) or 151 (GE	General Elective (5 cr.)
	PHYS 100 (5 cr.)	Diversity (5 cr.)	General Elective (5 cr.)
		General Elective (2 cr.)	
	Q9	Q10	Q11
Third Year	MNTC 208 (4 cr.)	MNTC 402 (5 cr.)	MENG 353 (5 cr.)
	TECH 330 (4 cr.)	MNTC 406 (4 cr.)	MNTC 404 (5 cr.)
	TECH 403 (4 cr.)	TECH 331 (4 cr.)	TECH 458 (4 cr.)
		TECH 454 (4 cr.)	
	Q13	Q14	Q15
Fourth Year	MNTC 320 (5 cr.)	MNTC 495 (4 cr.)	General Elective (5 cr.)
	MNTC 430 (5 cr.)	TECH 393 (4 cr.)	MNTC 491 (4 cr.)
	TECH 452 (4 cr.)	TECH 462 (4 cr.)	TECH 456 (4 cr.)
			TECH 490 (4 cr.)

Listed is a Sample Four Year Plan. Individual plans will vary based on placement test scores and class availability.

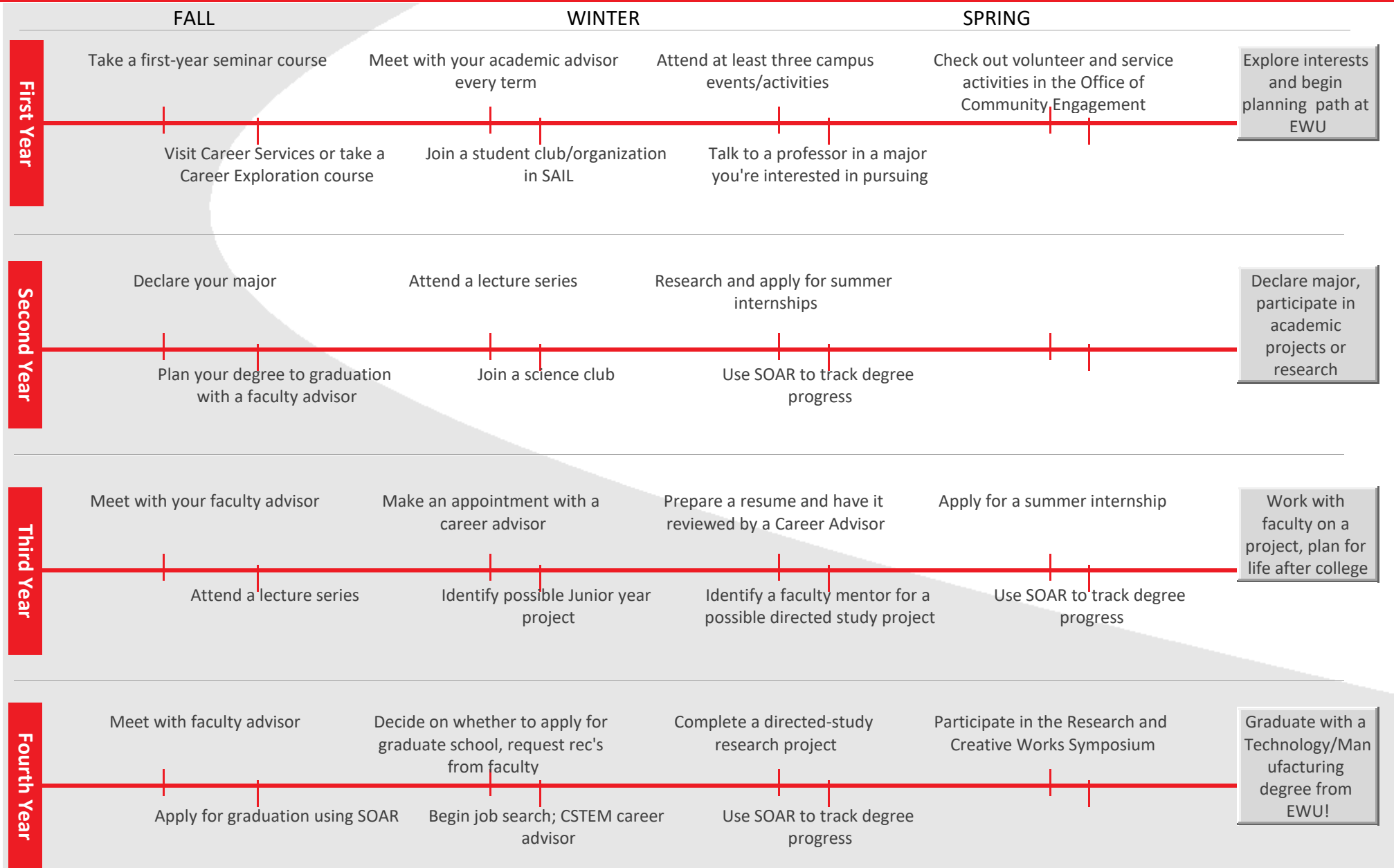


Flight Plan to Success

The following milestones will help you succeed and improve your experience at EWU.

Manufacturing Technology, BS

College of Science, Technology, Engineering, and Mathematics
Engineering & Design



All recommended activities can occur at any time during a student's time at EWU



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Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics
 SOAR Department: Engr & Des | SOAR Major: TECH MANU
 Major Declaration Form: Manufacturing Technology
 Math proficiency needed: MATH 107 or 142

Bachelor of Science in Manufacturing Technology
 Process Option
 2018-2019 Catalog Year

First year courses and prerequisites	Notes	Previously offered **
Q1 BACR (5 cr.)		
Q1 MATH 142 or MATH 107 (5 cr.)		
Q1 ENGL 101 COLL COMP: EXPOSITN & ARGUMNT (5 cr.) Prerequisite: Writing Placement Test or General Advising.	Satisfies: university competencies, writing.	F17, W18, Sp18, Su18
Q2 General Elective (5 cr.)		
Q2 ENGL 201 COLL COMP: ANALYSIS/RES/DOCMNT (5 cr.) Prerequisite: ENGL 101, Writing Placement Test or general advising.	Satisfies: university proficiencies, writing.	F17, W18, Sp18, Su18
Q2 TECH 110 ENGINEERING GRAPHICS (5 cr.) Prerequisites: METC 102 or TECH 102, two years of high school drafting, or equivalent.		F17, W18, Sp18
Q3 BACR (5 cr.)		
Q3 General Elective (3 cr.)		
Q3 General Elective (5 cr.)		
Q3 MENG 217 or TECH 217 (4 cr.)		

I have discussed this academic plan with the student listed above. Advisor name: _____ Advisor signature: _____

* See the catalog for prerequisites and other details.

** Future course offerings may differ from the past. Check the course schedule for future courses.

To follow this MAP, you should place into MATH 107 or 142. If you place lower, your custom MAP may change.

This list of courses is for information purposes only. All students are required to follow the catalog requirements for the year they declared a major.

Second year courses and prerequisites	Notes	Previously offered **
Q5 General Elective (5 cr.)		
Q5 MNTC 301 METALLIC PROCESSES (5 cr.) Prerequisite: junior standing or permission of instructor.		F17, W18, Sp18, Su18
Q5 PHYS 100 PHYSICAL SCIENCE I (5 cr.) Prerequisite: pre-university basic skills in mathematics.	Satisfies: ā BACR for natural sciences.	F17, W18, Su18
Q6 BACR (5 cr.)		
Q6 CHEM 121 (GECR) or 151 (GECR) (5 cr.)		
Q6 Diversity (5 cr.)		
Q6 General Elective (2 cr.)		
Q7 BACR (5 cr.)		
Q7 General Elective (5 cr.)		
Q7 General Elective (5 cr.)		

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Third year courses and prerequisites	Notes	Previously offered **
Q9 MNTC 208 SURVEY OF ELECTRICITY (4 cr.) <i>Prerequisite: pre-university basic skills in mathematics.</i>		F17
Q9 TECH 330 TECH PROB ANALYSIS & DESIGN I (4 cr.) <i>Prerequisites: junior standing or permission of the instructor.</i>		F17, W18
Q9 TECH 403 COMP-AIDED DESIGN & PROJ MGMT (4 cr.) <i>Prerequisites: MATH 107 or permission of the instructor.</i>		F17, Sp18
Q10 MNTC 402 MACHINE TOOL I (5 cr.) <i>Prerequisites: METC 110 and MNTC 301.</i>		W18
Q10 MNTC 406 WELDING TECHNOLOGY (4 cr.) <i>Prerequisite: MNTC 301 or permission of the instructor.</i>		W18
Q10 TECH 331 TECH PROB ANALYSIS & DESIGN II (4 cr.) <i>Prerequisite: TECH 330.</i>		W18, Sp18
Q10 TECH 454 ENVIRONMENTAL ENGINEERING (4 cr.) <i>Prerequisite: junior standing or permission of the instructor.</i>		F17, W18
Q11 MENG 353 INDUSTRIAL MATERIALS (5 cr.) <i>Prerequisite: CHEM 121 or CHEM 151; ENGL 201 (grade \geqC); MATH 107 or MATH 142 (grade \geqC).</i>		F17, W18, Sp18, Su18
Q11 MNTC 404 COMPUTER NUMERICAL CONTR (5 cr.) <i>Prerequisites: MNTC 301 and MNTC 402.</i>		Sp18, Su18
Q11 TECH 458 QUALITY ASSURANCE (4 cr.) <i>Prerequisite: junior standing.</i>		W18, Sp18

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Fourth year courses and prerequisites	Notes	Previously offered **
Q13 MNTC 320 NON-METALLIC PROCESSES (5 cr.) <i>Prerequisites: METC 110; junior/senior status or permission of instructor.</i>		F17, W18, Su18
Q13 MNTC 430 MACHINE TOOL II (5 cr.) <i>Prerequisites: MNTC 301 and MNTC 402.</i>		F17
Q13 TECH 452 ENGINEERING ECONOMICS (4 cr.) <i>Prerequisite: junior standing or permission of instructor.</i>		F17, Sp18
Q14 MNTC 495 INTERNSHIP (4 cr.) <i>Prerequisites: junior or senior status and permission of the instructor, department chair and dean.</i>	Note: Graded Pass/Fail. This course may be repeated.	F17, W18, Su18
Q14 TECH 393 TECHNOLOGY WORLD CIVILIZATION (4 cr.) <i>Prerequisite: ENGL 101.</i>	Satisfies: a university graduation requiremen global studies.	F17, W18, Sp18, Su18
Q14 TECH 462 INDUSTRIAL SAFETY ENGINEERING (4 cr.)		F17, W18
Q15 General Elective (5 cr.)		
Q15 MNTC 491 SENIOR PROJECT (4 cr.) <i>Prerequisite: permission of the instructor.</i>		W18, Sp18, Su18
Q15 TECH 456 ENGR, ETHIC CONTRACT, PATENT (4 cr.) <i>Prerequisite: junior standing or permission of instructor.</i>		F17, Sp18, Su18
Q15 TECH 490 SR. CAPSTONE: PRODUCTION LAB (4 cr.) <i>Prerequisite: senior standing.</i>	Satisfies: a university graduation requirement'senior capstone. Note: the course will simulate a real world design team concept by utilizing a design group that contains members of different program majors.	Sp18

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