

Manufacturing Engineering Technology - Graduation MAP

Plastics and Composites Emphasis

This is a suggested plan. Meet with an academic advisor to create a specific plan that best fits your academic needs. Remember, taking an average of 15 credit hours per semester facilitates timely graduation.



WEBER STATE
UNIVERSITY

Catalog Year: 2020-2021

NAME: _____

	Course	Credit Hour	Semester Offered	Prerequisites	Notes
Freshman (Semester 1)					
	MFET 1000 Manufacturing Engr Tech Fundamentals	3	Fa, Sp		• Declare major with AAS and BS Degrees in MFET: Plastics and Composites • C or better in all major and support courses • Will accept MATH 1080 for MATH 1060 (C or better)
	MFET 1210 Machining Principles	3	Fa, Sp		
	PDD 1010 Intro to Engineering & Technical Design	3	Fa, Sp	MATH 0970 or 0990 or higher	
	ENGL 2010 EN Intermediate College Writing	3	Fa, Sp, Su	ENGL 1010 or placement	
	MATH 1060* Trigonometry OR MATH 1080 QL Pre-Calculus	3 5	Fa, Sp, Su	MATH 1010 or placement	
	LIBS 1704 IL Information Navigator**	1	Fa, Sp, Su		
	Total Semester Credits	16-18			
Freshman (Semester 2)					
	PDD 1160 Geo Dimen & Tolerancing Using 3D CAD	3	Fa, Sp	PDD 1010	• Please note that a C or better in MATH 1060 or a B or better in MATH 1080 is required to get into PHYS 2010 without being required to take a placement exam • Will accept MATH 1210 for MATH 1110
	CHEM 1110 PS Elementary Chemistry	5	Fa, Sp, Su		
	PHYS 2010 PS College Physics I OR PHYS 2210 PS Physics for Scientists & Engineers I	5	Fa, Sp, Su Fa, Sp	MATH 1060 MATH 1210	
	MATH 1110 Calculus Concepts & Applications OR MATH 1210 Calculus I	3 4	Fa, Sp Fa, Sp, Su	MATH 1050 or MATH 1080 MATH 1050 & 1060 or 1080	
	Total Semester Credits	16-17			
Freshman (Optional)					
	Total Semester Credits				
Sophomore (Semester 3)					
	MFET 2850 CNC/ CAM for Plastics & Composites	3	Fa	MFET 1210	• Please note that a C or better in MATH 1060 or a B or better in MATH 1080 is required to get into PHYS 2010 without being required to take a placement exam
	MFET 2410 Quality Concepts & Statistical Applications	3	Fa, Sp	MATH 1010 or higher	
	MFET 2310 Statics for Engineering Technology	3	Fa, Sp	MATH 1110 or MATH 1210 PHYS 2010 or PHYS 2210	
	MFET 2860 Plastics/ Composites Materials & Properties	3	Fa	CHEM 1110	
	EET 1850 Industrial Electronics	4	Fa, Sp	MATH 1010 or higher	
	Total Semester Credits	16			
Sophomore (Semester 4)					
	MFET 2320 Mechanics of Materials	3	Fa, Sp	MFET 2310	• MFET will accept MFET 2300 for MFET 2310 & 2320 (C or better) • Apply for graduation with an AAS degree in MFET: Welding
	MFET 2500 & 2510 Process Automation I/ Lab	3	Fa, Sp	EET 1850	
	Life Science (LS)/ Diversity (DV)***	3	Fa, Sp, Su		
	SS Gen Ed (Suggestion: ECON 1010 or ECON 2010)	3	Fa, Sp, Su		
	COMM 1020 HU Principles of Public Speaking OR COMM 2110 HU Interpersonal & Small Group Com	3	Fa, Sp, Su		
	Total Semester Credits	15			
Sophomore (Optional)					
	Total AAS Credits	63-66			

	Course	Credit Hours	Semester Offered	Prerequisites	Notes
Junior (Semester 5)					
	MFET 3340 & 3340L Applied Fluid Power/ Lab	3	Fa, Sp	MFET 2300 or MFET 2320 PHYS 2010 or PHYS 2210	MFET will accept MFET 2300 for MFET 2310 & 2320 (C or better)
	MFET 3350 & 3350L Plastic & Composite Mfg/ Lab	4	Fa	CHEM 1110 or CHEM 1210	
	MSE 3850 Statistical Process Control & Reliability	3	Fa, Sp	MFET 2410 or MATH 1040 or MATH 3410	
	American Institutions (AI)	3	Fa, Sp, Su		
	Creative Arts (CA)/ Diversity (DV)***	3	Fa, Sp, Su		
	Total Semester Credits	16			
Junior (Semester 6)					
	MFET 2870 Design of Plastics/ Composites Products	3	Sp	DET 1160 and MFET 2860	- Apply for Senior Project - AAS, AS, or AA prerequisite for Senior Project - MFET 3620 must be taken the semester prior to beginning Senior Project (MFET 4610 and MFET 4610L)
	MET 3150 Engineering Technology Materials	3	Fa, Sp	CHEM 1110 and MFET 2300 or MFET 2320	
	MFET 3550 Manufacturing Supervision	3	Fa, Sp	MFET 2410 or MATH 1040	
	MFET 3620 Senior Capstone Project Planning	0.5	Fa, Sp	Department Approval	
	MFET 3830 Reinforced Plastics/ Advanced Composite	3	Sp	MFET 3350/L and MFET 2860	
	MSE 3910 Six Sigma Methods & Tools in Manfcturing	3	Fa, Sp	MSE 3850 or MFET 3810	
	Total Semester Credits	15.5			
Junior (Optional)					
	Total Semester Credits				
Senior (Semester 7)					
	MFET 3870 Mold Design & Process Strategies	3	Fa	MFET 2860	C or better in all major and support courses. Seniors may petition to have one C- allowed in major and support courses. Approval from the Program Coordinator and Department Chair is required.
	MSE 3700 Manufacturing Systems I	3	Fa	MFET 2300 or MFET 2320	
	MFET 4610 Senior Project Planning & Estimating	3	Fa, Sp	Coreq: MFET 4610L	
	MFET 4610L Senior Project Lab I	2	Fa, Sp	Coreq: MFET 4610	
	MSE 4590 Lean Manufacturing Systems	3	Fa	MFET 2300 or MFET 2320	
	Social Science (SS)/ Diversity (DV)***	3	Fa, Sp, Su		
	Total Semester Credits	17			
Senior (Semester 8)					
	MFET 4620L Senior Project Lab II	2	Fa, Sp		- Apply for graduation with BS degree in MFET: Welding - Take the CMfgT Exam
	MFET 4995 CMfgT Exam Review	1	Fa, Sp		
	MFET 4580 & 4585 Process Auto II & Robotics/ Lab	3	Fa, Sp	MFET 2500 and MFET 2510	
	MET 4650 Thermal Science	3	Sp	MATH 1110 or MATH 1210 PHYS 2010 or PHYS 2210 CHEM 1110 or CHEM 1210	
	Approved Technical Elective	3	Fa, Sp, Su		
	Creative Arts (CA)/ Humanities (HU)/ Diversity (DV)***	3	Fa, Sp, Su		
	Total Semester Credits	14			
Senior (Optional)					
	Total Semester Credits				
	Total Bachelor Credits	125.5-128.5			

Gen Ed Breadth Requirements (do not duplicate departments)

☐ HU	☐ CA	☐ HU or CA
☐ SS	☐ SS	
☐ PS	☐ LS	☐ PS or LS
☐ DV (Double dip with breadth course)		

Avoid Misadvisement! Consult your academic advisor (weber.edu/advisors), the WSU Catalog (weber.edu/catalog), and your CatTracks degree evaluation (log into your eWeber Student Portal).

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Revision Date: 05/08/2020

*Students are assumed to have completed MATH 1050 prior to taking MATH 1060. MATH 1050 is a prerequisite to MATH 1110.

**LIBS 1504 Information Literacy Competency Exam can be taken in lieu of LIBS 1704.

***Only 3 credits total needed for Diversity (DV) requirement. Do not duplicate departments when choosing CA or HU gen eds. COMM class counts as HU.

This is a suggested course sequence, not an academic contract. Curriculum and program requirements are subject to change without notification.

Program is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org.

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