

Manufacturing Engineering Technology - Graduation MAP

Welding 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: Welding • 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	
	MFET 2150 & 2150L Metal Frming, Casting & Wld/ Lab	3	Fa		
	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)					
	EET 1850 Industrial Electronics	4	Fa, Sp	MATH 1010 or higher	• Will accept MATH 1210 for MATH 1110
	PDD 1160 Geo Dimen & Tolerancing Using 3D CAD	3	Fa, Sp	PDD 1010	
	CHEM 1110 PS Elementary Chemistry	5	Fa, Sp, Su		
	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	15-16			
Freshman (Optional)					
	Total Semester Credits				
Sophomore (Semester 3)					
	PDD 2460 Product Design Fundamentals Using 3D CAD	3	Fa, Sp	PDD 1160	• 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
	COMM 1020 HU Principles of Public Speaking OR COMM 2110 HU Interpersonal & Small Group Com	3	Fa, Sp, Su		
	ENGL 2010 EN Intermediate College Writing	3	Fa, Sp, Su	ENGL 1010 or placement	
	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	
	SS Gen Ed (Suggestion: ECON 1010 or ECON 2010)	3	Fa, Sp, Su		
	Total Semester Credits	17			
Sophomore (Semester 4)					
	MFET 2310 Statics for Engineering Technology	3	Fa, Sp	MATH 1110 or MATH 1210 PHYS 2010 or PHYS 2210	• MFET will accept MFET 2300 for MFET 2310 & 2320 (C or better) • Apply for graduation with an AAS degree in MFET: Welding
	MFET 2410 Quality Concepts & Statistical Applications	3	Fa, Sp	MATH 1010 or higher	
	MFET 2500 & 2510 Process Automation I/ Lab	3	Fa, Sp	EET 1850	
	MFET 2670 & 2670L GMA, FCA, & GTA Welding/ Lab	3	Sp	MFET 2150/L or MFET 2153	
	Creative Arts (CA)/ Diversity (DV)***	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 2320 Mechanics of Materials	3	Fa, Sp	MFET 2310	• MFET will accept MFET 2300 for MFET 2310 & 2320 (C or better)
	MFET 3060 Codes, Weld Insp, & Quality Assurance	3	Fa	MFET 2150/L or MFET 2153	
	MFET 3630 & 3630L Fusion Joining & Brazing Pro/ Lab	3	Fa	MFET 2670/L	
	MFET 3750 & 3750L Welding Metallurgy I/ Lab	3	Fa	MFET 2150/L or MFET 2153, CHEM 1110 or CHEM 1210	
	MSE 3850 Statistical Process Control & Reliability	3	Fa, Sp	MFET 2410 or MATH 1040 or MATH 3410	
	Total Semester Credits	15			
Junior (Semester 6)					
	MFET 3550 Manufacturing Supervision	3	Fa, Sp	MFET 2410 or MATH 1040	• 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)
	MFET 3620 Senior Capstone Project Planning	0.5	Fa, Sp	Department Approval	
	MFET 3760 & 3760L Welding Metallurgy II/ Lab	3	Sp	MFET 3750/L	
	MFET 3820 Nondestructive Testing	3	Sp	MATH 1110 or MATH 1210, PHYS 2010 or PHYS 2210	
	MSE 3910 Six Sigma Methods & Tools in Manfcturing	3	Fa, Sp	MSE 3850 or MFET 3810	
	Social Science (SS)/ Diversity (DV)***	3	Fa, Sp, Su		
	Total Semester Credits	15.5			
Junior (Optional)					
	Total Semester Credits				
Senior (Semester 7)					
	MFET 4090 Welding Power Sources	2	Fa	EET 1850	• 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 4590 Lean Manufacturing Systems	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	
	Approved Technical Elective	3	Fa, Sp, Su		
	Life Science (LS)/ Diversity (DV)***	3	Fa, Sp, Su		
	Total Semester Credits	16			
Senior (Semester 8)					
	MFET 4315 Welding Robotics	2	Sp	MFET 2670/L	• Apply for graduation with BS degree in MFET: Welding • Take the CMfgT Exam
	MFET 4620L Senior Project Lab II	2	Fa, Sp		
	MFET 4995 CMfgT Exam Review	1	Fa, Sp		
	Approved Technical Elective	3	Fa, Sp, Su		
	American Institutions (AI)	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	123.5-126.5			

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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*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.

Academic Advisor:

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