

Name: _____

Student Number: _____

MANUFACTURING ENGINEERING TECHNOLOGY										2020-2021					
Cr. Hrs	SEM 1	Cr. Hrs	SEM 2	Cr. Hrs	SEM 3	Cr. Hrs	SEM 4	Cr. Hrs	SEM 5	Cr. Hrs	SEM 6	Cr. Hrs	SEM 7	Cr. Hrs	SEM 8
4	MATH 1180 Pre-Calculus MATH 1110 ≥ C or placement	4	MATH 1220 or 1700 Calculus I WES Level 1: Foundations Quantitative Literacy Category* MATH 1180 ≥ C	4+1	PHYS 1150+1160 General Physics II (L) PHYS 1130 ≥ C	3	EDMM 2001 Applied Electricity & Electronics (L) (F, Sp, Sul) PHYS 1070+1080 ≥ C or PHYS 1150+1160 ≥ C or PHYS 2070+2080 ≥ C	3	EDMM 3480 Designing for Production (L) (F) EDMM 1420, EDMM 2540, EDMM 2810 & EDMM 2460 ≥ C	3	EDMM 3260 Operations Planning & Control (F, Sp, Sul) STAT 2160 or 2600 or IEE 2610 ≥ C	3	EDMM 3200 Engineering Cost Analysis (F, Sp, Sul) MATH 1220 or 2000 or 1700 ≥ C	3	EDMM 4020 Engineering Leadership (F, Sp, Sul) Junior Standing
3	IEE 1020 Technical Communication (F, Sp) WES Level 1: Foundations Writing Category* ENGL 1000 or placement	3+1	CHEM 1100+1110 General Chemistry I (L) MATH 1110 ≥ C	3	EDMM 2460 Intro to Computer-Aided Design (L) (F, Sp, Sul) EDMM 1420 ≥ C	3	EDMM 2500 Plastics Properties and Processing (L) (F, Sp) CHEM 1100/1110 recommended	3	EDMM 3520 Metal Casting (L) (Sp) EDMM 2540 and (EDMM 2560 or ME 2500) ≥ C	3	EDMM 3280 Quality Assurance and Control (F, Sp, Sul) STAT 2160 or 2600 or IEE 2610 ≥ C	3	EDMM 4540 Fabrication, Assembly, Finishing (L) (F) EDMM 2810 ≥ C	3	EDMM 4570 Manufacturing for Sustainability (Sp)
3	EDMM 1420 Engineering Graphics (F, Sp, Sul)	4+1	PHYS 1130+1140 General Physics I (L) WES Level 2: Exploration and Discovery Scientific Literacy with Lab Category* MATH 1110 ≥ C or placement	3	IEE 2610 Engineering Statistics (F, Sul) WES Level 1: Foundations Oral and Digital Communications Category*	4	EDMM 2810 Statics and Strength of Materials (F, Sp, Sul) MATH 1220 or 1700 or 2000 ≥ C	3	EDMM 3540 Metrology (L) (F) IEE 2610 ≥ C Co-requisite EDMM 3480	3	EDMM 3580 Computer-Aided Manufacturing (L) (Sp) EDMM 2540 ≥ C EDMM 2460 ≥ C	3	EDMM 4580 Manufacturing Systems Integration (L) (F) EDMM 2460 ≥ C EDMM 2001 and EDMM 3580 recommended	2	EDMM 4920 Multidisciplinary Senior Project (F, Sp) EDMM 4910 ≥ C Department Approval
3	EDMM 1500 Intro to Manufacturing (F, Sp, Sul) WES Level 2: Exploration and Discovery Science and Technology			3	EDMM 2540 Machining Processes (L) (F, Sp, Sul) EDMM 1500 recommended	3	EDMM 3020 Engr. Teams: Theory & Practice (F, Sp, Sul) IEE 1020 ≥ C	3	EDMM 3840 Fluid Mechanics and Hydraulics (L) (F, Sp) EDMM 2810 ≥ C PHYS 1130+1140 ≥ C			3	EDMM 4910 Multidisciplinary Senior Proposal (F, Sp) WES Level 3: Connections Local and National Department Approval	1	EDMM 4930 Multidisciplinary Senior Project Consultation (F, Sp) EDMM 4910 ≥ C Department Approval
1	EDMM 1501 Processes and Materials in Manufacturing Laboratory (F, Sp, Sul)			2	EDMM 2830 Thermodynamics (L) (F, Sp) PHYS 1130 +1140 ≥ C MATH 1220 or 1700 or 2000 ≥ C	3	EDMM 2560 Properties of Materials (L) (F, Sp) CHEM 1100 + 1110 ≥ C or ME 2500	3	APPROVED ELECTIVE**	3	APPROVED ELECTIVE**			3	APPROVED ELECTIVE**
3	WES Level 2: Exploration and Discovery Personal Wellness Category*	3	WES Level 2: Exploration and Discovery Societies and Cultures Category*			3	ME 2500 Materials Science (F, Sp, Sul) CHEM 1100 + 1110 ≥ C MATH 1220 or 1700 ≥ C ME 2615 or EDMM 1500 ≥ C	3	WES Level 1: Foundations Inquiry and Engagement*	3	WES Level 2: Exploration and Discovery World Language and Culture Category*	3	WES Level 2: Exploration and Discovery Artistic Theory and Practice Category*	3	WES Level 3: Connections Global Perspectives Category*
17 hours		16 hours		16 hours		16 hours		18 hours		15 hours		15 hours		15 hours	
															128 total hours

NOTE: Prerequisite courses are shown in smaller print.

22 Cr. Gate Courses Req.

79 Cr. MFT Req.

18 Cr. WES Req.

9 Cr. MFT Elective Req.

* See your academic advisor for WMU Essential Studies (WES) courses. At least one of these WES courses must fulfill the Diversity and Inclusion requirement.

** A minor is recommended. See elective options on page 2.

(L) Lab

A 'C' or better is required for admission to upper level CEAS courses

MANUFACTURING ENGINEERING TECHNOLOGY ELECTIVES - Select any three (3) of the following* electives

Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective
		1-3	EDMM 2990 Cooperative Education	3	EDMM 3120 Systems Decision Making			3	IEE 3420 Ergonomics and Design
			EDMM 2990		IEE 2610 or STAT 2600 ≥ C				
3	EDMM 3500 Production Thermoplastic Processing					3	EDMM 4520 Die Casting	3	EDMM 4560 Process Testing & Measurement
	EDMM 2500 ≥ C						EDMM 2540 ≥ C		EDMM 2810 ≥ C
							ME 2500		IEEM 2610 or STAT 2600 ≥ C
							EDMM 3520 recommended		ME 2500
3	EDMM 4870 Manufacturing Productivity Techniques	3	EDMM 4880 Applied Process Reengineering	3	EDMM 5500 Advanced Plastics Processing	3	EDMM 5520 Casting Simulation & Solidification	4	MATH 1230 or 1710 Calculus II
	Senior Standing		Senior Standing		EDMM 2500 or equivalent		Upperclass student		MATH 1220 or 1700 ≥ C
			ISM minors only						MATH 1230 or 1710 ≥ C
4	MATH 3740 Differential Equations & Linear Algebra	1	MSL 1020 Intro to the Profession of Arms	2	MSL 2020 Army Doctrine & Team Development	3	MSL 3020 Applied Leadership in Small Unit Operations	3	MSL 4020 Mission Command and the Company Grade Officer
	MATH 2720 ≥ C		Approval of department chair		Approval of department chair		Approval of department chair		Approval of department chair

Approved Electives can be from any Minor*

Math Minor

Military Science & Leadership Minor

Plastics, etc Minor

Cast Metals Minor

* This is not an exhaustive list; please talk with your Academic Advisor for other options and/or to discuss a minor.