

Manufacturing Systems Engineering - Graduation MAP




WEBER STATE
UNIVERSITY

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.

Catalog Year: 2020-2021

NAME: _____

	Course	Credit Hour	Semester Offered	Milestones & Notes
Freshman (Semester 1)				
	CHEM 1210 PS Principles of Chemistry I	5	Fa, Sp, Su	<ul style="list-style-type: none">• Declare major in Associate of Pre-Engineering (APE)• MATH 1050 & MATH 1060, MATH 1080, or placement test are the prerequisites for MATH 1210
	Gen Ed SS – Econ 2010	3	Fa, Sp, Su	
	MATH 1210 Calculus I	4	Fa, Sp, Su	
	ECON 2010 SS Principles of Microeconomics	3	Fa, Sp, Su	
	ENGR 1000 Introduction to Engineering	2	Fa, Sp	
	Total Semester Credits	17		
Freshman (Semester 2)				
	LIBS 1704 IL Information Navigator	1	Fa, Sp, Su	<ul style="list-style-type: none">• Overall 2.5 GPA required for MSE majors• LIBS 1504 Information Literacy Exam (1) can be taken in lieu of LIBS 1704
	ENGL 2010 EN Intermediate College Writing	3	Fa, Sp, Su	
	PHYS 2210 PS Physics for Scientists & Engineers I	5	Fa, Sp	
	MATH 1220 Calculus II	4	Fa, Sp, Su	
	PDD 1010 Introduction to Engineering & Tech Design	3	Fa, Sp	
		16		
Freshman (Optional)				
	Total Freshman Credits	33		
Sophomore (Semester 3)				
	ENGR 2210 Electrical Engineering for Non-Majors	4	Fa	<ul style="list-style-type: none">• MATH 2210, 2250, or 2270 could be used for Master's degree in Industrial Engineering• *MATH 2250 is only offered Spring Semester• Only 3 credits total needed for Diversity (DV) requirement
	ENGR 2010 Statics	3	Fa	
	PHYS 2220 Physics for Scientists & Engineers II	5	Fa, Sp	
	MATH MSE Technical Elective: Suggested options: MATH 2210, MATH 2250*, or MATH 2270	3-4	Fa, Sp, Su	
	Creative Arts (CA)/ Diversity (DV)	3	Fa, Sp, Su	
	Total Semester Credits	18-19		
Sophomore (Semester 4)				
	ENGR 2160 Materials Science & Engineering	4	Sp	
	ENGR 2080 Dynamics	4	Sp	
	ENGR 2140 Mechanics of Materials	3	Sp	
	Gen Ed LS	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	17		
Sophomore (Optional)				
	Total Sophomore Credits	35-36		

<input checked="" type="checkbox"/>	Course	Credit Hours	Semester Offered	Milestones & Notes
Junior (Semester 5)				
	MSE 3360 Manufacturing Process & Materials/ Lab	3	Fa	<ul style="list-style-type: none"> Declare major in Manufacturing Systems Engineering (MSE)
	MSE 1210 Metal Processing & Joining for Engineers	3	Fa, Sp	
	Social Science (SS)/ Diversity (DV)	3	Fa, Sp	
	MATH 3410 Probability & Statistics I	3	Fa, Sp	
	Creative Arts (CA)/ Humanities (HU)/ Diversity (DV)	3	Fa	
	Total Semester Credits	15		
Junior (Semester 6)				
	MFET 3550 Manufacturing Supervision	3	Sp	<ul style="list-style-type: none"> Only 3 credits total needed for Diversity (DV) requirement Apply for senior project
	MSE 4610 Project Management for Engineers	3	Fa, Sp	
	MSE 3040 Cost Estmtng & Engineering Econ. Analysis	3	Sp	
	MSE 3850 Statistical Process Control & Reliability	3	Fa, Sp	
	PDD 1160 Geo Dimensioning & Tolerancing	3	Fa, Sp	
	Total Semester Credits	15		
Junior (Optional)				
	Total Junior Credits	30		
Senior (Semester 7)				
	MSE 4010 Facility Design & Material Handling	3	Fa, Sp, Su	<ul style="list-style-type: none"> C or better in all major & support courses. Seniors may petition to have one C- allowed. Approval from Program Coordinator & Department Chair is required. Only 3 credits total needed for Diversity (DV) requirement
	MSE 4615 Senior Project Design I/ Lab	2	Fa, Sp	
	MSE 3700 Manufacturing Systems I	3	Sp	
	MSE 3460 Product Design & Development	3	Fa	
	MSE 3910 Six Sigma Methods & Tools in Manufacturing	3	Fa, Sp, Su	
	Total Semester Credits	14		
Senior (Semester 8)				
	MSE 4590 Lean Manufacturing Systems	3	Fa, Sp, Su	<ul style="list-style-type: none"> Only 3 credits total needed for Diversity (DV) requirement Apply for graduation with BS degree in MSE Take FE Exam
	MSE 4620 Senior Project Design II/ Lab	2	Fa, Sp	
	MSE 3710 CAM & Additive Manufacturing/ Lab	3	Sp	
	MSE 4700 Manufacturing Systems Engineering II	3	Fa, Sp, Su	
	MSE 4600 Production Systems Modeling/ Lab	3	Sp	
	Total Semester Credits	14		
Senior (Optional)				
	Total Senior Credits	28		
	Total Bachelor Credits	127-128		

Gen Ed Breadth Requirements (do not duplicate departments)

<input type="checkbox"/> HU	<input type="checkbox"/> CA	<input type="checkbox"/> HU or CA
<input type="checkbox"/> SS	<input type="checkbox"/> SS	
<input type="checkbox"/> PS	<input type="checkbox"/> LS	<input type="checkbox"/> PS or LS
<input type="checkbox"/> DV (Double dip with breadth course)		

This is a suggested course sequence not an academic contract. Curriculum and program requirements are subject to change without notification. All Manufacturing Systems Engineering students are required to meet with their faculty or academic advisor at least annually for course and program advisement.

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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