

California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Major) MANUFACTURING ENGINEERING	Catalog Year	6	Name	
Subplan/Option	Minimum Units Required	194	Student ID	

Required Core Courses		
Course		Units
Required of all students. A 2.0 cumulative GPA is r		
courses for the major in order to receive a degree i	in the major.	
Industrial & Mfg Engr Fundamentals	IME 112	3
Industrial & Mfg Engr Computations & Lab	IME 113/113L	2/1
Work Analysis and Design & Lab	IME 224/224L	3/1
Industrial Costs and Control	IME 239	3
Probability and Statistics in Engr & Lab	IME 314/314L	3/1
Supply Chain Planning and Control	IME 326	3
Facilities Planning & Material Handling & Lab	IME 331/331L	3/1
Statistical Quality Control & Lab	IME 415/415L	3/1
Senior Project Seminar	IME 460	1
Analytic Geometry and Calculus II	MAT 115	4
Analytic Geometry and Calculus III	MAT 116	4
Calculus of Several Variables I	MAT 214	3
Calculus of Several Variables II	MAT 215	3
Elementary Linear Algebra and Diff Equations	MAT 224	4
Engineering Graphics I & Lab	MFE 126/126L	2/1
Manufacturing Processes -	MFE 217/217L	2/1
Materials, Metrology and Treatments & Lab		
Manufacturing Processes I -	MFE 221/221L	2/1
Material Removal & Lab		
Engineering Graphics II & Lab	MFE 226/226L	2/1
Manufacturing Processes II -	MFE 230/230L	2/1
Forming, Casting, and Joining & Lab		
Principles of Numerical Control & Lab	MFE 250/250L	2/1
Design for Manufacturing & Lab	MFE 326/326L	2/1
Computer - Aided Design/Computer-Aided	MFE 375/375L	3/1
Manufacturing & Lab	0.0,0.0	
Manufacturing Metrology & Lab	MFE 380/380L	1/1
Intro to Computer Integrated Mfg & Lab	MFE 450/450L	3/1
Metal Working Theory and Applications	MFE 465	3
Advanced Computer - Aided Mfg Systems & Lab		3/1
General Physics & Lab	PHY 132/132L	3/1
General Physics & Lab	PHY 133/133L	3/1
Discrete Systems Simulation & Lab	IE 429/429L	3/1
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	Total Units	97
Elective Core Courses		
Course		Units
Manufacturing Electives (Select with advisor approval) Number of Elective units depends on ME 301 or ME 311 in the Required Support Courses.		
• •	Total Units	4-5

Required Support Courses		
Course		Units
The following required support courses should be	,	
the indicated GE Requirements to achieve the r	minimum units to	
degree listed at the top of this sheet.		
General Chemistry & Lab (B3)	CHM 121/121I	3/1
General Chemistry & Lab (B5)	CHM 122/122I	3/1
Principles of Economics (D2)	EC 201	4
or Principles of Economics (D2)	EC 202	(4)
Elements of Electrical Engineering & Lab	ECE 231/231L	3/1
Engineering, Society and You & Lab (E)	EGR 100/100L	3/1
Project Design Principles and Applications (B5)	EGR 481	2
Project Design Principles and Applications (B5)	EGR 482	2
Ethical Considerations in Technology and Applied Science (C4)	IME 402	4
Asset Allocation in Technical Decision Making (Decision M	4) IME 403	4
Analytic Geometry and Calculus I (B4)	MAT 114	4
Vector Statics	ME 214	3
Vector Dynamics	ME 215	4
Strength of Materials I	ME 218	3
Fluid Mechanics I	ME 311	3
or Thermodynamics	ME 301	(4)
General Physics & Lab (B1, B3)	PHY 131/131L	3/1
	Total	53-54

General Education Requirements	IGE (G.E.	
Area	Units	Alternative)
Area A Communication & Critical Thinking	12	IGE 120 4
1. Oral Communication		IGE 120 4
2. Written Communication		IGE 122 4
3. Critical Thinking		IGE 220 4
Area B Mathematics & Natural Sciences	16	IGE 221 4
Select at least one lab course from subarea 1 or 2.	'0	IGE 222 4
1. Physical Science		IGE 223 4
2. Biological Science		AREA A1 4
3. Laboratory Activity		AREA A3
4. Math/Quantitative Reasoning		AREA B 16
Science & Technology Synthesis		AREA C1, C2 or C3
Area C Humanities	16	AREA C4
Visual and Performing Arts	'0	AREA D4
Philosophy and Civilization		
Literature and Foreign Language		
Humanities Synthesis		See University
Area D Social Sciences	20	Catalog for information on
U.S. History, Constitution, American Ideals		how IGE meet
a. United States History		GE require-
b. Introduction to American Government		ments.
History, Economics and Political Science		
Sociology, Anthropology, Ethnic & Gender Studies		
Social Science Synthesis		
Area E Lifelong Understanding & Self Development	4	
Total	68	

American Institutions Courses that satisfy this requirement may also satisfy GE Area D1	
American Cultural Perspectives Requirement Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.	

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.