

California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Major) MANUFACTURING ENGINEERING	Catalog Year	Name
Subplan/Option	Minimum Units Required	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	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 Manufacturing & Lab	MFE 375/375L	3/1
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
Biologo Oyotomo Omidianon a Lab	IL 420/420L	6 / 1
	Total Units	97
Elective Core Courses		
Course		Units
Manufacturing Electives (Select with advisor appro Number of Elective units depends on ME 301 or M the Required Support Courses.		4-5
	Total Units	4-5

Required Support Courses				
Course		Units		
The following required support courses should be t indicated GE Requirements to achieve the minimulisted at the top of this sheet.	,	3/1		
General Chemistry & Lab (B3)	CHM 121/121L	3/1		
General Chemistry & Lab Principles of Economics (D2)	EC 201	3/1 4		
or Principles of Economics (D2)	EC 201	(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 (D4)	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 PHY 131/1311	(4) 3/1		
General Physics & Lab (B1, B3)	PHY 131/131L	3/1		
	Total Units	53-54		

Area	Units
Area A Communication & Critical Thinking	12
1. Oral Communication	
2. Written Communication	
3. Critical Thinking	
Area B Mathematics & Natural Sciences	16
Select at least one lab course from subarea 1 or 2.	
1. Physical Science	
2. Biological Science	
3. Laboratory Activity	
4. Math/Quantitative Reasoning	
5. Science & Technology Synthesis	
Area C Humanities	16
Visual and Performing Arts	
2. Philosophy and Civilization	
3. Literature and Foreign Language	
4. Humanities Synthesis	
Area D Social Sciences	20
1. U.S. History, Constitution, American Ideals	
a. United States History	
b. Introduction to American Government	
2. History, Economics and Political Science	
3. Sociology, Anthropology, Ethnic & Gender Studies	
4. Social Science Synthesis	
Area E Lifelong Understanding & Self Development	4
Total Units	68
American Institutions	
Courses that satisfy this requirement may also satisfy GE Area D1	8
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	4

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.

requirements.