

## California State Polytechnic University, Pomona **Degree Curriculum Sheet**

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n (Maior)	MANUFACTURING ENGINEERING	

2011-2012 Catalog Year\_ Name\_ Evaluator \_ **GWT** Satisfied Minimum Units Required Subplan/Option 198 Student ID \_Yes

Required Core Courses		
Course		Units
Students in this major are expected to maintain	a GPA of at least	
2.00 in all core courses.		
Discrete Systems Simulation	IE 429/429L	3/1
Industrial & Manuf Engr Fundamentals	IME 112	3
Industrial & Manuf Engr Computations	IME 113/113L	2/1
Industrial Costs & Control	IME 239	3
Applications of Statistics	IME 301	3
Engineering Probability and Statistics	IME 312	3
Supply Chain Planning & Control	IME 326	3
Facilities Planning & Layout Design	IME 331/331L	3/1
Quality Control by Statistical Methods	IME 415/415L	3/1
Senior Project Seminar	IME 460	1
Senior Project IN	ЛЕ 471 or IME 461	2
Senior Project IN	ЛЕ 472 or IME 462	3
Analytic Geometry/Calculus II	MAT 115	4
Analytic Geometry/Calculus III	MAT 116	4
Calculus of Several Variables I	MAT 214	3
Calculus of Several Variables II	MAT 215	3
Elem Linear Algebra and Diff Equations	MAT 224	4
Engineering Graphics I	MFE 126/126L	2/1
Manufacturing Processes -		
Materials, Metrology & Treatment	MFE 217/217L	2/1
Manufacturing Processes I - Material Removal	MFE 221/221L	2/1
Engineering Graphics II	MFE 226/226L	2/1
Manufacturing Processes II - Form, Cast, Join	MFE 230/230L	2/1
Measurement & Methods	MFE 320/320L	3/1
Design for Manufacturing	MFE 326/326L	3/1
Principles of Numerical Control	MFE 250/250L	2/1
CAD/CAM	MFE 375/375L	3/1
Introduction to Computer Integrated Mfg	MFE 450/450L	3/1
Metal Work Theory & Application	MFE 465	3
Advanced Computer Aided Mfg Systems	MFE 476/476L	3/1
General Physics	PHY 132/132L	3/1
General Physics	PHY 133/133L	3/1
	Total Units	103

Elective Core Courses	
Course	Units
Manufacturing Electives (Select with advisor approval)	
Total Units	3-4

Required Support Courses		
Course		Units
General Chemistry	CHM 121	3
General Chemistry Lab (B3)	CHM 121L	1
General Chemistry	CHM 122/122L	3/1
Principles of Economics (D2)	EC 201	4
or Principles of Economics (D2)	EC 202	(4)
Elements of Electrical Engineering	ECE 231/231L	3/1
Ethical Cons. in Tech. & Appl Science	e (C4) EGR 402	4
Asset Alloc in Tech Decision Making	(D4) EGR 403	4
Analytic Geometry/Calculus I (B4)	MAT 114	4
Vector Statics	ME 214	3
Vector Dynamics	ME 215	4
Strength Materials	ME 218	3
Fluid Mechanics	ME 311	3
or Thermodynamics	ME 301	(4)
General Physics/Lab (B1, B3)	PHY 131/131L	3/1
	Total Units	45-4

General Education Requirements			IGE (G.E.
Area	•	Units	Alternative)
Area A	Communication & Critical Thinking	12	IGE 120 4
1	Oral Communication		IGE 121 4
2	Written Communication		IGE 122 4
3	Critical Thinking		IGE 220 4
	Mathematics & Natural Sciences	16	IGE 221 4 IGF 222 4
Select at	t least one lab course from sub-area 1 or 2.		IGF 223 4
1	Physical Science		or EC 201
2	Biological Science		or EC 202
	Laboratory Activity		IGE 224 4
	Math/Quantitative Reasoning		Area A1 4
	Science & Technology Synthesis		Area A3 4
	Humanities	16	Area B 16
		10	Area C1, C2,
	Visual and Performing Arts		or C3 4 Area C4 4
	Philosophy and Civilization		
	Literature and Foreign Language		Area D4 4
	Humanities Synthesis		0 11 :
o	Social Sciences	20	See University
1	U.S. History, Constitution, American Ideals		Catalog for infor mation on how
2	History, Economics and Political Science		IGF meets G.F.
3	Sociology, Anthropology, Ethnic & Gender Studies		requirements.
4	Social Synthesis		
Area E	Lifelong Understanding & Self Development	4	
	Total Units	68	

	American Institutions	
	Courses that satisfy this requirement may also satisfy G.E. Area	8
ı	D1	

American Cultural Perspectives Requirement	
Refer to catalog for list of courses that satisfy this requirement.	4
Course may also satisfy major, minor, GE, or unrestricted elective	
requirements.	

The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

Course		<b>GE Area</b>
General Physics	PHY 131/131L	B1, B3
and General Chemistry Lab	CHM 121L	В3
Analytic Geometry/Calculus I	MAT 114	B4
Ethical Considerations in Tech. & Appl Science	EGR 402	C4
Principles of Economics	EC 201 or 202	D2
Asset Alloc in Tech Decision Making	EGR 403	D4

The remaining GE requirements may be satisfied by any course approved for that area.