

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

MANUFA	CTUD	NIC EL	ICINICED	INIC
MANUE	M.HUKI	INI3 FN	NIJINEEK	INI

2013-2014 Catalog Year \_ TGA\_ Plan (Major) Name\_ Minimum Units Required Subplan/Option Student ID **GWT** Satisfied

Required Core Courses		
Course		Units
Project Design Principles and Applications	EGR 481	2
Project Design Principles and Applications	EGR 482	2
Discrete Systems Simulation	IE 429/429L	3/1
Industrial & Manuf Engr Fundamentals	IME 112	3
Industrial & Manuf Engr Computations	IME 113/113L	2/1
Work Analysis and Design	IME 224/224L	3/1
Industrial Costs & Control	IME 239	3
Application of Statistics in Engineering	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 Seminar EGR 481 or IME	461 or IME 471	2
Senior Project Seminar EGR 482 or IME	462 or IME 472	2-3
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
Principles of Numerical Control	MFE 250/250L	2/1
Design for Manufacturing	MFE 326/326L	2/1
CAD/CAM	MFE 375/375L	3/1
Manufacturing Metrology	MFE 380/380L	1/1
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	107-108

Elective Core Courses		
Course	Units	
Manufacturing Electives (Select with advisor approval) Number of elective units depends on ME 301 or ME 311 in Required Support.		
Total Units	6-7	

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	(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	45-46

General Education Requirements		IGE (G.E.	
Area	Units	Alternative)	
Area A Communication & Critical Thinking	12	IGE 120	4
1 Oral Communication		102 121	4
2 Written Communication		102 .22	4
3 Critical Thinking		102 220	4
Area B Mathematics & Natural Sciences	16	IGE 221 IGF 222	4
Select at least one lab course from sub-area 1 or 2	"	IGE 222 IGF 223	4
1 Physical Science		or FC 201	4
2 Biological Science		or FC 202	
3 Laboratory Activity			4
4 Math/Quantitative Reasoning		Area A1	4
		Area A3	4
5 Science & Technology Synthesis  Area C Humanities	16	Area B 16	
	10	Area C1, C2,	
1 Visual and Performing Arts		or C3 4	
2 Philosophy and Civilization		7 11 00 0 1	4
3 Literature and Foreign Language		Area D4	4
4 Humanities Synthesis			
Area D Social Sciences	20	See University	
<ol> <li>U.S. History, Constitution, American Ideals</li> </ol>		Catalog for info	
2 History, Economics and Political Science		mation on how IGF meets G.F.	
3 Sociology, Anthropology, Ethnic & Gender Studies		requirements.	
4 Social Synthesis		requirements.	
Area E Lifelong Understanding & Self Development	4		
Total Un	nits 68		

Yes

American Institutions	
Courses that satisfy this requirement may also satisfy G.E. Area	8
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		GE Area
General Physics	PHY 131/131L	B1, B3
and General Chemistry Lab	CHM 121L	B3
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.

