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

Major)	MANUFACTURING ENGINEERING
an/Opti	

Students in this major are expected to maintain a GPA of at least

Subpla

Course

IE 429/429L

IME 113/113L

IME 331/331L

IME 471 or IME 461

IME 472 or IME 462

IME 112

IME 239

IME 301

IME 312

IME 326

IME 415/L

IME 460

MAT 115

MAT 116

MAT 214

MAT 215

MAT 224

MFE 126/126L

MFE 217/217L

MFE 226/226L

MFE 320/320L

MFE 326/326L

MFE 250/250L

MFE 375/375L

MFE 450/450L

MFE 476/476L

PHY 132/132L

PHY 133/133L

MFE 465

Total Units

Total Units

2010-2011 Minimum Units Required 198

Catalog Year

1

Units

3/1

3

2/1

3

3

3

3

3/1

3/1

1

2

3

4

4

3

3

4

2/1

2/1

2/1

2/1

2/1

3/1

3/1

2/1

3/1

3/1

3

3/1

3/1

3/1

103

Units

3-4

3-4

 Name
Student ID

Required Support Courses		
Course		Units
General Chemistry	CHM 121	3
General Chemistry Lab (B3)	CHM 121L	1
General Chemistry/Lab	CHM 122/122L	3/1
Elements of Electrical Engineering/Lab	ECE 231/231L	3/1
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
Ethical Cons. in Tech. & Appl Science (	C4) EGR 402	4
Principles of Economics (D2)	EC 201 or 202	4
Asset Alloc in Tech Decision Making (	04) EGR 403	4
	Total Units	45-46

Genera	l 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 IGE 222 4	
Select at least one lab course from sub-area 1 or 2.			IGE 222 4	
1	Physical Science		or EC 201	
2	Biological Science		or EC 202	
3	Laboratory Activity		IGE 224 4	
4	Math/Quantitative Reasoning		Area A1 4	
4 5			Area A3 4	
0	Science & Technology Synthesis	40	Area B 16	
	Humanities	16	Area C1, C2,	
	Visual and Performing Arts		or C3 4	
	Philosophy and Civilization		Area C4 4	
3	Literature and Foreign Language		Area D4 4	
4	Humanities Synthesis			
Area D	Social Sciences	20	See University	
1	U.S. History, Constitution, American Ideals		Catalog for infor	
2	History, Economics and Political Science		mation on how	
3	Sociology, Anthropology, Ethnic & Gender Studies		IGE meets G.E.	
4	Social Synthesis		requirements.	
Area E	,	4		
	Total Units	68		
Ameri	can Institutions		1	
Course	s that satisfy this requirement may also satisfy G.E. Area	8		
D1				
			_	

Evaluator **GWT** Satisfied

Yes

No

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/Lab	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.				

A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.

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**Required Core Courses** 

2.00 in all core courses.

Industrial Costs & Control

Applications of Statistics

Senior Project Seminar

**Engineering Graphics I** 

Manufacturing Processes -

Engineering Graphics II/Lab

Production Engineering/Lab

CAD/CAM/Lab

General Physics/Lab

General Physics/Lab

Elective Core Courses

Course

Measurement & Methods/Lab

Principles of Numerical Control/Lab

Metal Work Theory & Application

Introduction to Computer Integrated Mfg/Lab

Advanced Computer Aided Mfg Systems/Lab

Manufacturing Electives (Select with advisor approval)

Senior Project

Senior Project

Production Planning & Control

Analytic Geometry/Calculus II

Analytic Geometry/Calculus III

Calculus of Several Variables I

Calculus of Several Variables II

Elem Linear Algebra and Diff Equations

Materials, Metrology & Treatment/Lab

Manufacturing Processes I - Material Removal/LabMFE 221/221L

Manufacturing Processes II - Form, Cast, Join/Lab MFE 230/230L

Discrete Systems Simulation/Lab

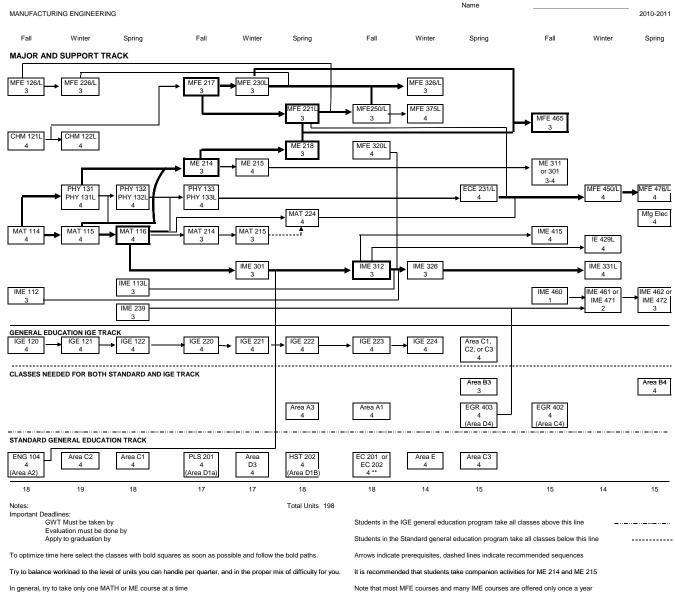
Industrial & Manuf Engr Fundamentals

Engineering Probability and Statistics

Facilities Planning & Layout Design/Lab

Quality Control by Statistical Methods/Lab

Industrial & Manuf Engr Computations/Lab



THE COURSES LISTED ABOVE INDICATE INTENT OF OFFERING QUARTER, ACTUAL OFFERINGS MAY VARY

\*\* Note: Strudents with GE certification or in GE track have already satisfied this requirement