California State Polytechnic University, Pomona
DEGREE REQUIREMENT EVALUATION

ELM Satisfied	___ Yes ___ No
EPT Satisfied	___ Yes ___ No
GWT Satisfied	___ Yes ___ No

MAJOR (PLAN) **MANUFACTURING ENGINEERING**
OPTION/EMPHASIS (SUB-PLAN) _____
UNITS REQUIRED FOR A BACHELOR'S DEGREE **198**

NAME _____ (LAST / FIRST / MI)
STUDENT I.D. # _____

TERM ADMITTED _____ **YEAR: 2006-2007**
EVALUATOR _____
DATE _____
UPDATES _____

CORE COURSES		Units
Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.		
Industrial & Manuf Engr Fundamentals	IME 112	3
Industrial & Manuf Engr Computations	IME 113/L	3
Industrial Costs & Control	IME 239	3
Applications of Statistics	IME 301	3
Production Planning & Control	IME 326	3
Facilities Planning & Layout Design	IME 331/L	4
Quality Control by Statistical Methods	IME 415/L	4
Senior Project	IME 471 or IME 461	2
Senior Project	IME 472 or IME 462	3
Engineering Graphics I	MFE 126/L	3
Manufacturing Processes - Materials, Metrology & Treatment	MFE 217/L	3
Manufacturing Processes I - Material Removal	MFE 221/L	3
Engineering Graphics II	MFE 226/L	3
Manufacturing Processes II - Form, Cast, Join	MFE 230/L	3
Measurement & Methods	MFE 320/L	4
Production Engineering	MFE 326/L	3
Principles of Numerical Control	MFE 250/L	3
CAD/CAM	MFE 375/L	4
Introduction to Computer Integrated Mfg	MFE 450/L	4
Metal Work Theory & Application	MFE 465	3
Advanced Computer Aided Mfg Systems	MFE 476/L	4
Discrete Systems Simulation	IE 429/L	4
Manufacturing Electives**		3-4

**Select with advisor approval

SUPPORT COURSES		Units
General Chemistry	CHM 121/L	4
General Chemistry	CHM 122/L	4
Elements of Electrical Engineering	ECE 231/251/L	4
English* (A1)	ENG 104	4
Engineering Probability & Statistics	IME 312	3
Undergraduate Seminar	IME 460	1
Analytic Geometry/Calculus I* (B1)	MAT 114	4
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
Differiential Equations	MAT 216	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* (B2)	PHY 131/L	4
General Physics	PHY 132	3
General Physics* (B2)	PHY 132L	1
General Physics	PHY 133/L	4
Ethical Cons. in Tech. & Appl Science* (C4)	EGR 402	4
Political Science* (D1a)	PLS 201	4
History* (D1b)	HST 202	4
Principles of Economics* (D2)	ECON 201 or 202	4
Asset Alloc in Tech Decision Making* (D4)	EGR 403	4

Courses marked with an * may be used to satisfy GE requirements. If these courses are not used to satisfy GE, the total units to degree may total more than 198 units.

SUMMARY OF ADVANCED STANDING CREDIT:
Earned Hours _____
G.P.A. Hours _____
Quality Points _____
G.P.A. _____

IGE		
IGE 120		4
IGE 121		4
IGE 122		4
IGE 220		4
IGE 221		4
IGE 222		4
IGE 223		4
IGE 224		4
Area A3		4
COM 204		4
EC 201/202		4
Area B		16
Area C4		4
Area D4		4

GENERAL EDUCATION. Students may fulfill these requirements at Cal Poly Pomona with the General Education (GE) or the Interdisciplinary General Education (IGE) Programs. Select courses from approved lists shown in the Schedule of Classes unless specified.

GENERAL EDUCATION COURSES	Units
Area A Communication & Critical Thinking	**12**
1 Written Communication	
2 Oral Communication	
3 Critical Thinking	
Area B Mathmeatics & Natural Sciences	**16**
1 Math/Quantitative Reasoning	
2 Physical Science	
3 Biological Science	
4 Science & Technology Synthesis	
Area C Humanities	**16**
1 Fine 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. Political Science	
b. U.S. History	
2 History, Economics and Political Science	
3 Sociology, Anthropology, Ethnic & Gender Studies	
4 Social Science Synthesis	
Area E Lifelong Understanding & Self Development	**4**
Lifelong Understanding	

NOT MORE THAN 105 UNITS FROM A COMMUNITY COLLEGE NOR MORE THAN 36 UNITS OF EXTENSION WORK MAY BE APPLIED TOWARD A BACHELOR'S DEGREE.
A 2.0 CUMULATIVE GPA IS REQUIRED IN CORE COURSES INCLUDING OPTION COURSES IN ORDER TO RECEIVE A DEGREE IN THIS MAJOR.

Rev. 2006

Industrial and Manufacturing Engineering Department
Manufacturing Engineering Major
Curriculum Year: 2006-2007
Your department has developed this road plan, taking into account prerequisites and schedule restrictions.
You should pay attention to these concerns when deviating from this plan.

	Fall	Units	Winter	Units	Spring	Units	Comment
Year 1	**MFE 126/126L** Major Support	3	**CHM 122/122L** Major Support	4	**IME 239** Major Core	3	*Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.* *MAT 114, PHY 121/131L, PHY 132L, EGR 402, and EGR 403 satisfy both major and general education requirements.* *One course must be completed in each of the GE areas A2-3, B1-3, C1-3, D3, and E.*
	IME 112 Major Core	3	**MAT 115** Major Support	4	**IME 113/113L** Major Core	3	
	CHM 121/121L Major Support	4	**PHY 131/131L** GE Area B2	4	**MAT 116** Major Support	4	
	MAT 114 GE Area B1	4	**GE Area** Any approved course in area A2-3, B3, C1-3, D3, or E	4	**PHY 132L** GE Area B2	1	
					PHY 132 Major Support	3	
	ENG 104 GE Area A1	4			**HST 202** GE Area D1b	4	
	Total Units	**18**	**Total Units**	**16**	**Total Units**	**18**	
					Total Units for Year	**52**	

	Fall	Units	Winter	Units	Spring	Units	Comment
Year 2	**MFE 217/217L** Major Core	3	**MFE 230/230L** Major Core	3	**MFE 221/221L** Major Core	3	
	MAT 214 Major Support	3	**MAT 215** Major Support	3	**ME 218** Major Support	3	
	ME 214 Major Support	3	**MFE 226/226L** Major Core	3	**MAT 216** Major Support	4	
	PHY 133/133L Major Support	4	**IME 301** Major Core	3	**GE Area** Any approved course in area A2-3, B3, C1-3, D3, or E	4	
			ME 215 Major Support	4			
	Total Units	**13**	**Total Units**	**16**	**Total Units**	**14**	
					Total Units for Year	**43**	

	Fall	Units	Winter	Units	Spring	Units	Comment
Year 3	**IME 312** Major Support	3	**IME 326** Major Core	3	**IME 331/331L** Major Core	4	
	ECE 231/251L Major Support	4	**MFE 320/320L** Major Core	4	**GE Area** Any approved course in area A2-3, B3, C1-3, D3, or E	4	
	MFE 250/250L Major Core	3	**MFE 326/326L** Major Core	3	**GE Area** Any approved course in area A2-3, B3, C1-3, D3, or E	4	
	PLS 201 GE Area D1a	4	**EC 201 or 202** GE Area D2	4	**EGR 403** GE Area D4	4	
	GE Area Any approved course in area A2-3, B3, C1-3, D3, or E	4	**GE Area** Any approved course in area A2-3, B3, C1-3, D3, or E	4			
	Take the Graduation Writing Test						
	Total Units	**18**	**Total Units**	**18**	**Total Units**	**16**	
					Total Units for Year	**52**	

	Fall	Units	Winter	Units	Spring	Units	Comment
Year 4	**MFE 465** Major Core	3	**MFE 375/375L** Major Core	4	**IME 415/415L** Major Core	4	*Department approval required for selection of GE Synthesis Area B4.* *All GE Area A courses and all lower division GE courses in a GE area must be completed before taking the GE Synthesis course in that area.* *Manufacturing Electives must be selected with advisor approval.*
	IME 460 Major Support	1	**MFE 450/450L** Major Core	4	**IME 472 or IME 462** Major Core	3	
	ME 311 or 301 Major Support	3	**Mfg Elective** Major Core	3	**MFE 476/476L** Major Core	4	
	GE Area Any approved course in area A2-3, B3, C1-3, D3, or E	4	**IME 471 or IME 461** Major Core	2	**IE 429/429L** Major Core	4	
	GE Synthesis GE Area B4	4	**EGR 402** GE Area C4	4	**GE Area** Any approved course in area A2-3, B3, C1-3, D3, or E	4	
			Request a graduation check		*File an application for graduation*		
	Total Units	**15**	**Total Units**	**17**	**Total Units**	**19**	
					Total Units for Year	**51**	

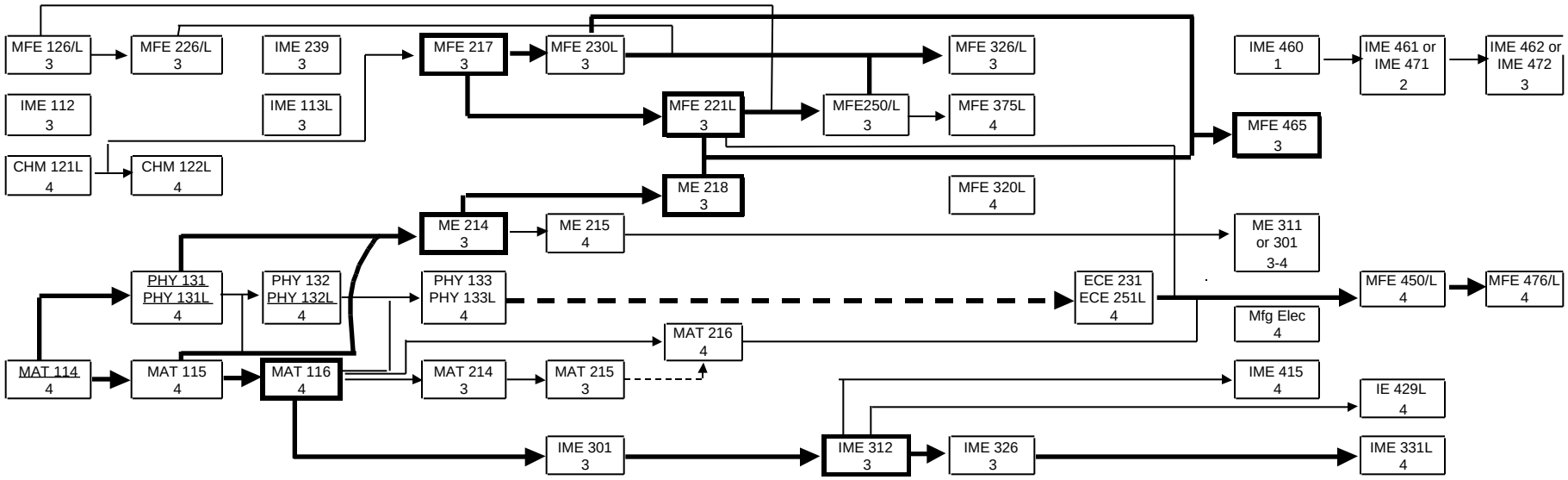
Total Units on Plan	**198**	
Major Core Units	**75-76**	
Major Support Units	**54-55**	
General Education Units	**68**	
Unrestricted Elective Units	**0**	

Name _____

MANUFACTURING ENGINEERING 2006-2007

Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring

MAJOR AND SUPPORT TRACK



GENERAL EDUCATION IGE TRACK

CLASSES NEEDED FOR BOTH STANDARD AND IGE TRACK

				Area B3 3	EC 201 or EC 202 4			Area A3 4 EGR 402 4 (Area C4)			Area B4 4 EGR 403 4 (Area D4)