



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

Plan (Major) INDUSTRIAL ENGINEERING
Subplan/Option _____

Catalog Year 2007-2008
Minimum Units Required 198

Name _____
Student ID _____

Evaluator _____
GWT Satisfied _____ Yes _____ No

Required Core Courses		
Course		Units
<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.</i>		
Fundamentals of Human Factors Engineering/Lab	IE 225/L	4
Elements of Industrial Engineering Systems/Lab	IE 327/L	4
Operations Research I	IE 416	4
Operations Research II	IE 417	4
Discrete Systems Simulation/Lab	IE 429/L	4
Operations Planning & Control/Lab	IE 436/L	3
Industrial & Manufacturing Engr Fundamentals	IME 112	3
Industrial & Manufacturing Engr Computations/Lab	IME 113/L	3
Work Analysis & Design/Lab	IME 224/L	4
Industrial Costs & Controls	IME 239	3
Application of Statistics	IME 301	3
Engineering Probability & Statistics	IME 312	3
Production Planning & Control	IME 326	3
Facilities Planning Layout & Design/Lab	IME 331/L	4
Quality Control by Statistical Methods/Lab	IME 415/L	4
Senior Project	IME 471 or IME 461	2
Senior Project	IME 472 or IME 462	3
Manufacturing Systems Processes/Lab	MFE 201/L	4
Total Units		62

Elective Core Courses	
Course	Units
Industrial Engineering Electives**	7
**Select from approved list.	
Total Units	7

Required Support Courses			IGE (G.E.)	
Course		Units	Alternative	
General Chemistry	CHM 121	3	IGE 120	4
General Chemistry Lab (B2)	CHM 121L	1	IGE 121	4
General Chemistry/Lab	CHM 122/L	4	IGE 122	4
Elements of Electrical Engineering/Lab	ECE 231/L	4	IGE 220	4
Undergraduate Seminar	IME 460	1	IGE 221	4
Analytic Geometry/Calculus I (B1)	MAT 114	4	IGE 222	4
Analytic Geometry/Calculus II	MAT 115	4	IGE 223	4
Analytic Geometry/Calculus III	MAT 116	4	or EC 201	
Calculus of Several Variables I	MAT 214	3	or EC 202	
Calculus of Several Variables II	MAT 215	3	IGE 224	4
Elem Linear Algebra and Diff Equations	MAT 224	4	Area A2	4
Vector Statics	ME 214	3	Area A3	4
Strength of Materials	ME 218	3	Area B	16
Engineering Graphics I/Lab	MFE 126/L	3	Area C1, C2, or C3	4
Introduction to Computer Integrated Manufacturing/Lab	MFE 450/L	4	Area C4	4
Materials Science & Engineering	MTE 207	3	Area D4	4
General Physics/Lab (B2)	PHY 131/L	4		
General Physics/Lab	PHY 132/L	4	See University Catalog for information on how IGE meets G.E. require- ments.	
General Physics/Lab	PHY 133/L	4		
Ethical Considerations in Tech. & Applied Science (C4)	EGR 402	4		
Principles of Economics (D2)	ECON 201 or 202	4		
Asset Allocation in Tech Decision Making (D4)	EGR 403	4		
Total Units		75		

Elective Support Courses	
Course	Units
Engineering Science Electives	7
Total Units	7

General Education Requirements	
Area	Units
Area A Communication & Critical Thinking	12
1 Written Communication	
2 Oral Communication	
3 Critical Thinking	
Area B Mathematics & Natural Sciences	16
<i>Select at least one lab course from sub-area 2 or 3.</i>	
1 Math/Quantitative Reasoning	
2 Physical Science	
3 Biological Science	
4 Science and 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	
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	Units
Courses that satisfy this requirement may also satisfy G.E. Areas D1.a and D1.b	8

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

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
Analytic Geometry/Calculus I	MAT 114 B1
General Physics/Lab	PHY 131/L B2
General Chemistry Lab	CHM 121L B2
Ethical Considerations in Tech. & Applied Science	EGR 402 C4
Principles of Economics	EC 201 or 202 D2
Asset Allocation in Tech Decision Making	EGR 403 D4

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

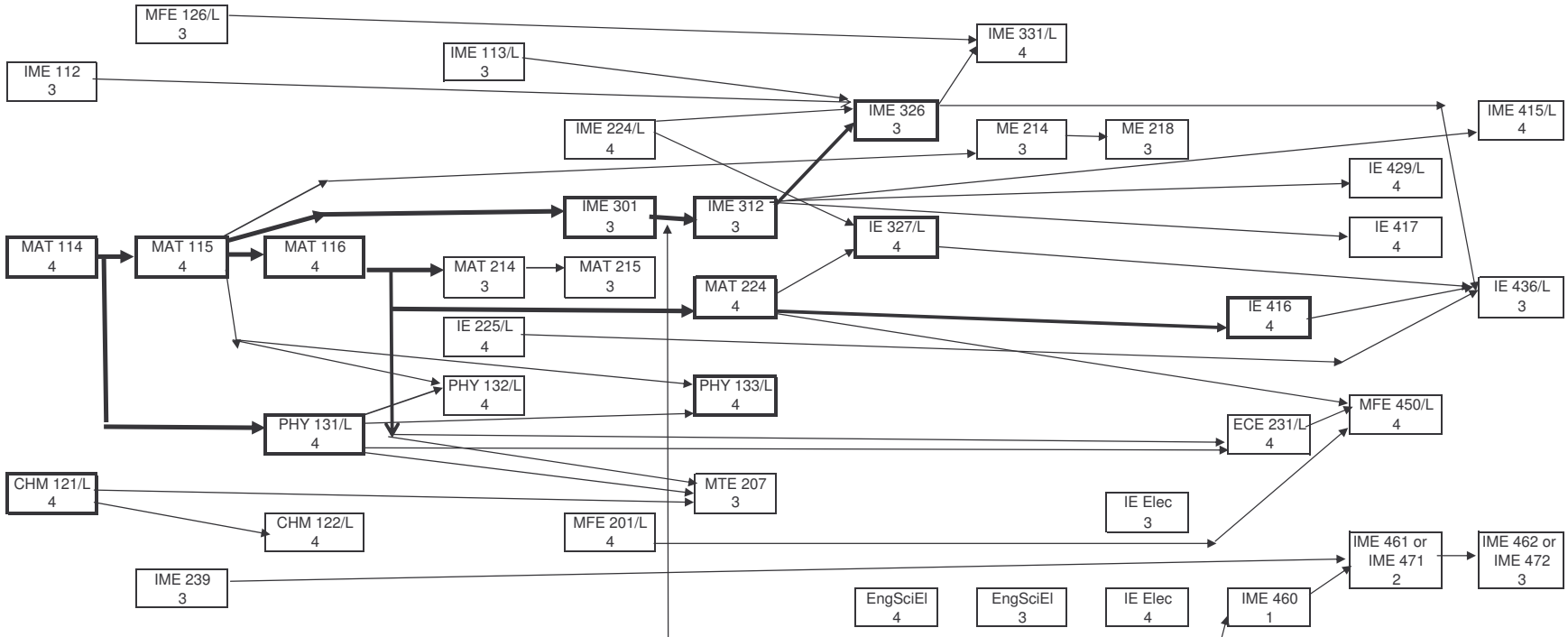
No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree. A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.

INDUSTRIAL ENGINEERING

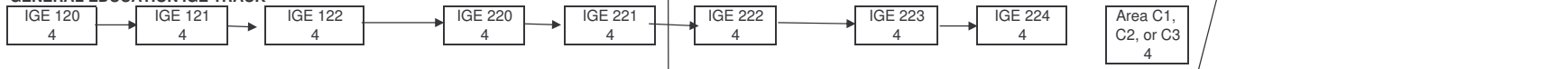
Name _____ 2007-2008

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



STANDARD GENERAL EDUCATION TRACK



15 18 16 18 18 18 19 14 18 13 17 14
 Notes: Total Units: 198

Important Deadlines:
 GWT Must be taken by
 Evaluation must be done by
 Apply to graduation by

Arrows indicate prerequisites
 Students in the IGE general education program take all classes above this line -----

To optimize your schedule, follow the critical path (dark lines) and take courses in black boxes as soon as possible.
 Try to balance workload to the level of units you can handle per quarter, and in the proper mix of difficulty for you.
 In general, try to take only one MATH or ME course at a time

Students in the Standard general education program take all classes below this line
 Note that most MFE courses and many IME courses are offered only once a year
 ** Note: Students with GE certification or in GE track have already satisfied this requirement

Industrial and Manufacturing Engineering Department
Industrial Engineering Major
Curriculum Year: 2007-2008

*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.*

Year 1	Fall	Units	Winter	Units	Spring	Units	Comment
	IME 112 Major Core	3	IME 239 Major Core	3	CHM 122/L Major Support	4	<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.</i>
	CHM 121 Major Support	3	MFE 126/L Major Support	3	MAT 116 Major Support	4	
	CHM 121L GE Area B2	1	MAT 115 Major Support	4	GE Area Area C1	4	<i>MAT 114, PHY 121/131L and CHM 121L satisfy both major and general education requirements.</i>
	MAT 114 GE Area B1	4	GE Area Area A2	4	PHY 131/L GE Area B2	4	
	ENG 104 GE Area A1	4	GE Area Area C2	4			
Total Units	15	Total Units	18	Total Units	16		
Total Units for Year						49	

Year 2	Fall	Units	Winter	Units	Spring	Units	Comment
	IE 225/L Major Core	4	MFE 201/L Major Core	4	IME 312 Major Core	3	
	IME 113/L Major Core	3	IME 224/L Major Core	4	MAT 224 Major Support	4	
	PHY 132/L Major Support	4	IME 301 Major Core	3	MTE 207 Major Support	3	
	MAT 214 Major Support	3	MAT 215 Major Support	3	PHY 133/L Major Support	4	
	PLS 201 GE Area D1a	4	GE Area Area D3	4	HST 202 GE Area D1b	4	
Total Units	18	Total Units	18	Total Units	18		
Total Units for Year						54	

Year 3	Fall	Units	Winter	Units	Spring	Units	Comment
	IE 327/L Major Core	4	IME 331/L Major Core	4	Industrial EGR Elective Major Core	4	<i>Industrial Engineering electives must be selected from the approved department list.</i>
	IME 326 Major Core	3	EGR Science Elective Major Support	3	Industrial EGR Elective Major Core	3	
	EGR Science Elective Major Support	4	ME 214 Major Support	3	EGR 403 GE Synthesis, Area D4	4	
	EC 201 or 202 GE Area D2	4	GE Area Area E	4	GE Area Area C3	4	
	GE Area Area A3	4			ME 218 Major Support	3	
	<i>Take the Graduation Writing Test</i>						
Total Units	19	Total Units	14	Total Units	18		
Total Units for Year						51	

Year 4	Fall	Units	Winter	Units	Spring	Units	Comment
	IE 416 Major Core	4	IE 417 Major Core	4	IE 436/L Major Core	3	<i>Department approval required for selection of GE Synthesis Area B4.</i>
	IME 460 Major Support	1	IE 429/L Major Core	4	IME 415/L Major Core	4	
	ECE 231/L Major Support	4	IME 471 or IME 461 Major Core	2	IME 472 or IME 462 Major Core	3	<i>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.</i>
	EGR 402 GE Synthesis, Area C4	4	MFE 450/L Major Support	4	GE Synthesis Area B4	4	
			GE Area Area B3	3			
			<i>Request a graduation check</i>		<i>File an application for graduation</i>		
Total Units	13	Total Units	17	Total Units	14		
Total Units for Year						44	

Total Units on Plan	198
Major Core Units	69
Major Support Units	61
General Education Units	68
Unrestricted Elective Units	0