

California State Polytechnic University, Pomona Degree Curriculum Sheet

Dlan (Major)	INDUSTRIAL ENGINEERING
Plan (Major)	INDUSTRIAL ENGINEERING

Subplan/Option _____

Catalog Year 2010-2011

Minimum Units Required 198

Name____ Student ID _

Required Core Courses		
Course		Units
Students in this major are expected to maintain a 2.00 in all core courses.	GPA of at least	
Fundamentals of Human Factors Engineering/Lab Elements of Industrial Engineering Systems/Lab	IE 225/225L IE 327/327L	3/1 3/1
Operations Research I	IE 416	4
Operations Research II	IE 417	4
Discrete Systems Simulation/Lab	IE 429/429L	3/1
Operations Planning & Control/Lab	IE 436/436L	2/1
Industrial & Manfacturing Engr Fundamentals Industrial & Manufacturing Engr Computations/Lab	IME 112	3 2/1
Work Analysis & Design/Lab	IME 224/224L	3/1
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 Quality Control by Statistical Methods/Lab	IME 331/331L IME 415/415L	3/1 3/1
Senior Project	IME 460	3/ I
,	471 or IME 461	2
•	472 or IME 462	3
Analytic Geometry Calculus II	MAT 115	4
Analytic Geometry Calculus III	MAT 115	4
Calculus of Several Variables I	MAT 214	3
Calculus of Several Variables II	MAT 215	3 4
Elem Linear Algebra and Diff Equations Engineering Graphics/Lab	MAT 224 MFE 126/126L	4 2/1
Manufacturing Systems Processes/Lab	MFE 201/201L	3/1
Introduction to Computer Integrated Manuf/Lab	MFE 450/450L	3/1
General Physics/Lab	PHY 132/132L	3/1
General Physics/Lab	PHY 133/133L	3/1
	Total Units	96

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
Strength of Materials	ME 218	3
Materials Science & Engineering	MTE 207	3
General Physics/Lab (B1, B3)	PHY 131/131L	3/1
Ethical Considerations in Tech Science	(C4) EGR 402	4
Principles of Economics (D2)	EC 201	4
or Principles of Economics (D2)	EC 202	(4)
Asset Allocation in Tech Decision (D4)	EGR 403	4
	Total Units	41
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Elective Support Courses		
Course		Units
Engineering Science Electives	Total Units	7
	Total Units	7

General Ed	ucation Requirements		IGE (G.E.	
Area		Units	Alternativ	e)
Area A Co	mmunication & Critical Thinking	12	IGE 120	4
	ral Communication		IGE 121	4
2 W	ritten Communication		IGE 122	4
3 Cr	itical Thinking		IGE 220	4
Area B Ma	athematics & Natural Sciences	16	IGE 221	4
Select at le	ast one lab course from sub-area 1or 2.		IGE 222	4
1 Ph	nysical Science		IGE 223	4
2 Bi	ological Science		or EC 201	
3 La	boratory Activity		or EC 202	2
4 M	ath/Quantitative Reasoning		IGE 224	4
5 Sc	cience and Technology Synthesis		Area A1	4
Area C H	umanities	16	Area A3	4
1 Vi	sual and Performing Arts		Area B	16
2 Ph	nilosophy and Civilization		Area C1, C2,	
3 Li	terature and Foreign Language		or C3	4
4 Hi	umanities Synthesis		Area C4	4
Area D S	ocial Sciences	20	Area D4	4
1 U.	S. History, Constitution, American Ideals			
2 Hi	story, Economics and Political Science		See Univers	ity
	ociology, Anthropology, Ethnic & Gender Studies		Catalog for	
4 Sc	ocial Science Synthesis		mation on h	
Area E Li	felong Understanding & Self Development	4	IGE meets G requirement	
	Total Units	68	requirement	۵.

American Institutions	
Courses that satisfy this requirement may also satisfy G.E. Area	8
D1	1

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/Lab	PHY 131/131L	B1, B3
and General Chemistry Lab	CHM 121L	B3
Analytic Geometry/Calculus I	MAT 114	B4
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 $\operatorname{\mathsf{GE}}$ requirements may be satisfied by any course approved for that area.

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