



DEGREE REQUIREMENT EVALUATION

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

California State Polytechnic University, Pomona

YEAR: 1999-2000

MAJOR **MATERIALS ENGINEERING (5220)**
 OPTION _____
 UNITS REQUIRED 202

NAME _____
 LAST FIRST M.I.
 STUDENT ID NO. _____

EVALUATOR _____
 DATE _____
 UPDATES _____

Students in this major are expected to achieve and maintain a GPA of at least 2.00 in all courses included in Column I.

A. 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.

Column I	Column II	Column IIIa	Column IIIb
CORE COURSES IN MAJOR	SUPPORT AND DIRECTED ELECTIVES	Interdis. G.E.	AREA 1 – 12 units a) ENG 104 (4) b) Elective (4) c) Elective (4)
Intro to CME CHE 131L 1	Gen Chemistry CHM 121 3	IGE 120 4	AREA 2 – 16 units (must include one lab course; area 2d must be upper division)
Comp Programming CHE 132/142L 3	Gen Chemistry CHM 122/L 4	IGE 121 4	a) <u>MAT 114 (4)</u> b) <u>PHY 131/151L, CHM 121L (3,1,1)</u>
CME Data Treatment CHE 133 2	Gen Chemistry CHM 123/L 4	IGE 122 4	c) Elective (3) d) <u>CHM 304/A (4)</u>
Stoichiometry I CHE 201/211L 3	Physical Chem CHM 305 3	IGE 220 4	AREA 3 – 24 units Arts, Literature, Philosophy, and Foreign Languages
Stoichiometry II CHE 202/212L 3	Elem Elec Engr ECE 231/251L 4	IGE 221 4	a) Elective (4) b) Elective (4) c) Elective (4)
Undergrad Seminar CHE 463 2	An Geom/Calculus II MAT 115 4	IGE 222 4	Social, Political, and Economic Institutions
Thermo & Trans Seq (Pattern A or B)** 15	An Geom/Calculus III MAT 116 4	IGE 223 4	d) EC 201 or EC 202 (4) e, f) SOC/PLS 390 (4)*
Mtl Engg in Industry MTE 205L 1	Calc of Sev Var I MAT 214 3	IGE 224 4	Integrated Being
Mtl Sci and Engr MTE 207 3	Calc of Sev Var II MAT 215 3	Area 1 b,c 8	g) Elective (4)
Mtl Sci and Engr Lab MTE 317L 1	Diff Equations MAT 216 4	Area 2-16 units (See Col IIIb)	AREA 4 – 8 units PLS 201 (4) and HST 202 (4)
Adv Sci of Materials MTE 327/L 4	Vector Statics ME 214 3	Area 3a,b,or c 4	AREA 5 – 8 units (A total of 12 upper division units required in GE—four in Area 2d and eight in Area 5.)
Mechanical Metallurgy MTE 320/L 4	Strength of Materials ME 218 3	EC 201 or 202 4	<u>EGR 403 (4), 4 units from MHR 301, 318, 324, 406, or 438</u>
Kinetic Proc in Mtl MTE 338 3	Str. of Mtl. Lab. ME 220L 1	Area 5-8 units (See Col IIIb)	*course satisfies two requirements
Materials Joining/Lab MTE 337/L 3	Gen Physics PHY 132/152L 4		<u>Underlined courses</u> satisfy both major and general education requirements.
Polymer Engr/Lab MTE 303/L 4	Gen Physics PHY 133/153L 4		
Ceramic Mtl/Lab MTE 407/L 4	Engr Graphics MFE 126/L 3		
Corr & Mtl Degradation MTE 401 3			
Fract & Failure Analysis MTE 422 3			
Mtl Sel & Design I MTE 420/L 3			
Mtl Sel & Design II MTE 430/L 3			
MTE Electives MTE 4XX 8			
UD Tech Elective(s) 4			
** Pattern A:			
Appl Math in CME CHE 301 3			
CME Thermo I CHE 302 4			
Momentum Transport CHE 311 4			
Energy Transport CHE 312/322L 4			
**Pattern B:			
Vector Dynamics ME 215 4			
Thermodynamics ME 301 4			
Fluid Mechanics ME 311 3			
Heat Transfer ME 415 4			
Column I Units Required 80	Column II Units Required 54	Column III Units Required 68	
		TRANSFER ELECTIVES	SUMMARY OF ADVANCED STANDING CREDIT:
			Earned Hours _____
			G.P.A. Hours _____
			Quality Points _____
			G.P.A. _____

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. ALL SPEAKERS OF ENGLISH AS A SECOND LANGUAGE WHO HAVE NOT ACHIEVED THE MINIMUM EPT SCORE FOR ENGLISH 104 MUST TAKE ENGLISH 102 AND 103.

A 2.0 CUMULATIVE GPA IS REQUIRED IN CORE COURSES INCLUDING OPTION COURSES IN ORDER TO RECEIVE A DEGREE IN THIS MAJOR. F-105-18 Rev. 1999

**CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA
MATERIALS ENGINEERING**

NAME: _____

CPID: _____

CURRICULUM FLOWSHEET, 1999-2000

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING
units	units	units	units	units	units	units	units	units	units	units	units
[1] CHE 131L 1	[8] CHE 132/ CHE 142L 3	[11] CHE 133 2 [Prq: 8]	[16] CHE 201/ CHE 211L 3 [Prq: 6,8,13]	[22] CHE 202/ CHE212L 3 [Prq: 16]	[27] CHE 301 3 [Prq: 22,26]	[33] CHE 302 4 [Prq: 19,22,23,32]	[37] MTE 338 3 [Prq: 23,33]	[42] MTE 320/ MTE320L 4 [Prq: 28-29]	[46] MTE 407/ MTE407L 4 [Prq: 11,37,38]	[51] MTE 420/ MTE420L 3 [Prq: 42,43,46-48]	[56] MTE 430/ MTE430L 3 [Prq: 51]
[2] AREA 2c 3	[7] MFE 126/ MFE126L 3		[17] MTE205L 1 [Prq: 8]	[23] MTE 207 3 [Prq: 8,12,14]	[28] MTE317L 1 [Prq: 23]	[34] CHE 311 4 [Prq: 18,27,32]	[38] CHE 312/ CHE 322L 4 [Prq: 11,33,34]		[47] MTE 337/ MTE337L 3 [Prq: 28,29]		[57] MTE 4XX 4
		[12] PHY 131/ PHY 151L 4 [Prq: 4]	[18] ME 214 3 [Prq: 9,12]	[24] ME 218 3 [Prq: 18]	[29] ME220L 1 [Prq: 24]		[39] MTE 327/ MTE327L 4 [Prq: 25,28]	[43] MTE 303/ MTE303L 4 [Prq: 23,29,34]	[48] MTE 401 3 [Prq: 37]	[52] MTE 422 3 [Prq: 42,48]	[58] UD Tech. Elec. 4
			[19] PHY 132/ PHY 152L 4 [Prq: 12]	[25] PHY 133/ PHY 153L 4 [Prq: 12]	[30] ECE 231/ ECE 251L 4 [Prq: 14,25]				[49] CHE 463 2 [Prq: 37,38]	[53] MTE 4XX 4	
[3] CHM 121/ CHM121L 4	[8] CHM 122/ CHM122L 4 [Prq: 3]	[13] CHM 123/ CHM123L 4 [Prq: 8]	[20] AREA 1b 4		[31] AREA 1c 4	[35] CHM 304/ CHM304A 4 [Prq: 13,14,25]	[40] CHM 305 3 [Prq: 34]				
[4] MAT 114 4	[9] MAT 115 4 [Prq: 4]	[14] MAT 116 4 [Prq: 9]	[21] MAT 214 3 [Prq: 14]	[26] MAT 216 4 [Prq: 14]	[32] MAT 215 3 [Prq: 21]	[36] EC 201 or EC 202 4		[44] AREA 3c 4		[54] AREA 5 MHR Elec 4	[59] EGR 403 4
IGE 120 (4)	IGE 121 (4)	IGE 122 (4)				IGE 220 (4)	IGE 221 (4)	IGE 222 (4)	IGE 223 (4)	IGE 224 (4)	
[5] ENG 104 4	[10] AREA 3a 4	[15] AREA 3b 4					[41] PLS/SOC 390 4	[45] AREA 3g 4	[50] PLS 201 4	[55] HST 202 4	
UNITS 16	18	18	18	17	16	16	18	16	16	18	15

Refer to the University Catalog for complete prerequisite and corequisite requirements.

Revised: 10/29/98

TOTAL
202