



**California State Polytechnic University, Pomona  
DEGREE REQUIREMENT EVALUATION**

**YEAR: 2001-2002**

MAJOR **MECHANICAL ENGINEERING (5500)**

NAME \_\_\_\_\_ LAST \_\_\_\_\_ FIRST \_\_\_\_\_ MI \_\_\_\_\_

UNITS REQUIRED **202**

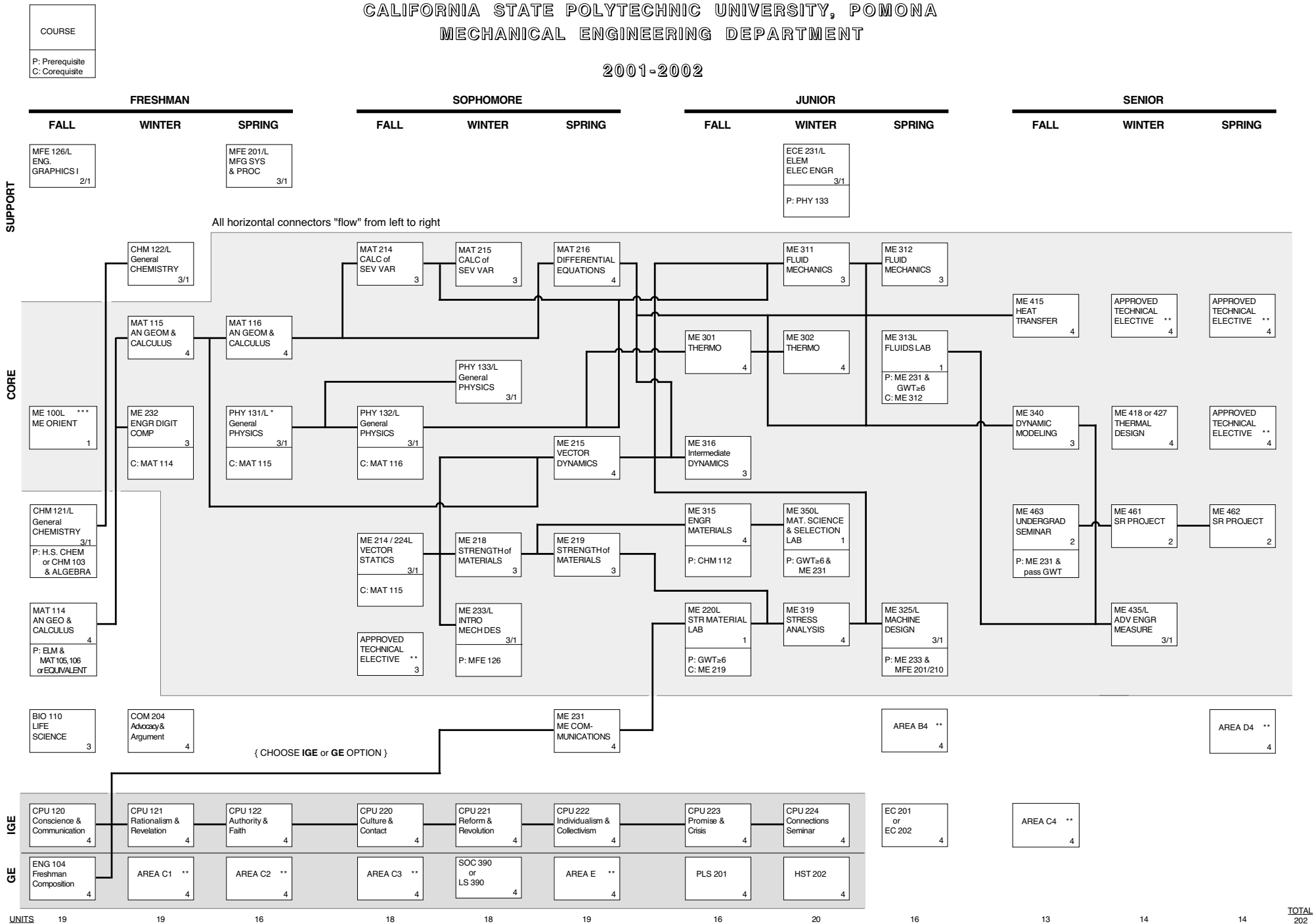
STUDENT I.D. # \_\_\_\_\_

**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.

CORE COURSES	Units	Course Taken	Grade	SUPPORT COURSES	Units	Course Taken	Grade	IGE	Units	Course Taken	Grade	GENERAL EDUCATION COURSES	Units	Course Taken	Grade
<i>Students in this major are expected to achieve and maintain a GPA of at least 2.00 in all core courses.</i>				Gen Chem	CHM 122	3		IGE 120	4			<b>Area A Communication and Critical Thinking—12 units</b>			
				Elem of Elec Engr	ECE 231/251L	4		IGE 121	4			1 Written Communication	4		
				Mfg. Sys. Processes	MFE 201/L	4		IGE 122	4			2 Oral Communication	4		
				Engr. Graphics I	MFE 126/L	3		IGE 220	4			3 Critical Thinking	4		
Mech Engr. Orient	ME 100L	1						IGE 221	4			<b>Area B Math and Natural Sciences—16 units</b>			
Vector Statics	ME 214	3						IGE 222	4			<i>Select at least one lab course from sub-area 2 or 3.</i>			
Vector Statics Lab	ME 224L	1						IGE 223	4			1 Mathematics and Quantitative Reasoning	4		
Vector Dynamics	ME 215	4						IGE 224	4			2 Physical Science	4		
Strength Mtls	ME 218	3						COM 204	4			3 Biological Science	4		
Strength Mtls	ME 219	3						ME 231	4			4 Science and Technology Synthesis	4		
Strength Mtls Lab	ME 220L	1						or				<b>Area C Humanities—16 units</b>			
Engr. Digital Comp	ME 232	3						Elective				1 Fine/Performing Arts	4		
Intro to Mech Design	ME 233/L	4						EC 201/202	4			2 Philosophy and Civilization	4		
Thermodynamics	ME 301	4						Area 2	16			3 Literature and Foreign Language	4		
Thermodynamics	ME 302	4						Area 5	8			4 Humanities Synthesis	4		
Fluid Mechanics	ME 311	3										<b>Area D Social Sciences—20 units</b>			
Fluid Mechanics	ME 312	3										<i>Two courses in sub-area 1, and at least one course from each of sub-areas 2, 3, and 4.</i>			
Fluid Mechanics	ME 313L	1										1 U.S. History, Constitution, American Ideals	8		
Engg Materials	ME 315	4										2 History, Economics, and Political Science	4		
Interm. Vector Dynamics	ME 316	3										3 Sociology, Anthropology, Ethnic, and Gender Studies	4		
Stress Analysis	ME 319	4										4 Social Science Synthesis	4		
Machine Design	ME 325/L	4										<b>Area E Lifelong Understanding and Self-Development—4 units</b>			
Modeling of Systems	ME 340	3										GENERAL EDUCATION (above areas)	68		
Mtls Design Lab	ME 350L	1										UNRESTRICTED ELECTIVES:	20		
Heat Transfer	ME 415	4										<b>SUMMARY OF ADVANCED STANDING CREDIT:</b>			
Air Conditioning or Thermal Systems Design	ME 427	4										Earned Hours	_____		
Adv. Engr. Meas.	ME 435/L	4										G.P.A. Hours	_____		
Senior Project or ME 460 or ME 471/472/473	ME 461/462	4										Quality Points	_____		
Undergrad Seminar	ME 463	2										G.P.A.	_____		
An Geom/Calculus II	MAT 115	4										ELM Satisfied	___ Yes ___ No		
An Geom/Calculus III	MAT 116	4										EPT Satisfied	___ Yes ___ No		
Calc of Sev Variables I	MAT 214	3										GWT Satisfied	___ Yes ___ No		
Calc of Sev Variables II	MAT 215	3										EVALUATOR	_____		
Diff Equations	MAT 216	4										DATE	_____		
General Physics	PHY 131/L	4										UPDATES	_____		
General Physics	PHY 132/L	4													
General Physics	PHY 133/L	4													
*Technical Electives		15													
*Select from dept's list with advisor's approval.															
<b>UNITS REQUIRED:</b>	<b>120</b>			<b>UNITS REQUIRED:</b>	<b>14</b>			<b>UNITS REQUIRED:</b>	<b>68</b>						

**CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA  
MECHANICAL ENGINEERING DEPARTMENT**

**2001-2002**



\* PHYSICS 131 SHOULD BE TAKEN NO LATER THAN SPRING QUARTER OF THE FRESHMAN YEAR  
 \*\* SEE LISTS OF APPROVED COURSES IN THESE AREAS  
 \*\*\* ALL STUDENTS SHOULD TAKE ME 100 DURING THE 1st FALL QUARTER AFTER ENTERING THE ME DEPARTMENT