



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

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

MAJOR MATHEMATICS (7452)
 OPTION/EMPHASIS Applied Mathematics
 UNITS REQUIRED 194

NAME _____
 LAST FIRST MI
 STUDENT I.D. # _____

TERM ADMITTED _____ YEAR: **2003-2004**
 EVALUATOR _____
 DATE _____
 UPDATES _____

CORE COURSES	Units	SUPPORT COURSES	Units	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.	Units
FORTRAN or Intro to C++	CS 125 CS 128 (4)	General Physics	PHY 132 3	GENERAL EDUCATION COURSES	
Analytic Geom & Calculus	MAT 116 4	General Physics	PHY 133 3	Area A Communication and Critical Thinking– 12 units	
Intro to Numerical Methods	MAT 201 4	General Physics Lab	PHY 132L 1	1 ENG 104	4
Intro Linear Algebra	MAT 208 4	General Physics Lab	PHY 133L 1	2 Oral Communication	4
Calculus of Sev Variables	MAT 214 3			3 Critical Thinking	4
Calculus of Sev Variables	MAT 215 3			Area B Math and Natural Sciences–19 units	
Differential Equations	MAT 216 4			<i>Select at least one lab course from sub-area 2 or 3.</i>	
Basic Set Theory & Logic	MAT 310 4			1 <u>MAT 114, MAT 115</u>	8
Intermediate Analysis	MAT 314 4			2 <u>PHY 131/131L</u>	4
Intermediate Analysis	MAT 315 4			3 BIO 110	3
Modern Algebra	MAT 417 4			4 Science and Technology Synthesis	4
Modern Algebra	MAT 418 4			Area C Humanities– 16 units	
Complex Variables	MAT 428 4			1 Fine/Performing Arts	4
Applied Prob Theory	STA 330 4			2 Philosophy and Civilization	4
Applied Statistics	STA 331 4			3 Literature and Foreign Language	4
				4 Humanities Synthesis	4
<u>Required Option Courses</u>	24			Area D Social Sciences– 20 units	
Complete two two-quarter sequences from the list below:				1a PLS 201	4
Math of Operations Research	MAT 380 (4)			1b HST 202	4
Math of Operations Research	MAT 381 (4)			2 History, Economics, and Political Science	4
Numerical Analysis	MAT 401 (4)			3 Sociology, Anthropology, Ethnic, and Gender Studies	4
Numerical Analysis	MAT 402 (4)			4 Social Science Synthesis	4
Differential Equations	MAT 431 (4)			Area E Lifelong Understanding and Self-Development–4 units	4
Differential Equations	MAT 432 (4)			GENERAL EDUCATION (above areas)	71
Math Modeling	MAT 485 (4)			UNRESTRICTED ELECTIVES:	19
Math Modeling	MAT 486 (4)				
Complete two additional courses from the list above or the list below:					
Graph Theory	MAT 370 (4)				
Combinatorics	MAT 470 (4)				
Mathematical Programming	MAT 480 (4)				
UNITS REQUIRED:	82	UNITS REQUIRED:	8	UNITS REQUIRED:	90

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.
 A 2.0 CUMULATIVE GPA IS REQUIRED IN CORE COURSES INCLUDING OPTION COURSES IN ORDER TO RECEIVE A DEGREE IN THIS MAJOR.