

California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Major) MATHEMATICS

Subplan/Option <u>Applied Mathematics/Statistics</u>

Minimum Units Required

Name____ Student ID TGA______Yes ___

No

Required Core Courses		
Course		Units
Intro to C++	CS 128	4
Analytic Geometry & Calculus III	MAT 116	4
Intro to Numerical Methods	MAT 201	4
Intro Linear Algebra	MAT 208	4
Calculus of Sev Variables I	MAT 214	3
Calculus of Sev Variables II	MAT 215	3
Differential Equations	MAT 216	4
Basic Set Theory & Logic	MAT 310	4
Intermediate Analysis I	MAT 314	4
Intermediate Analysis II	MAT 315	4
Modern Algebra I	MAT 417	4
Modern Algebra II	MAT 418	4
Complex Variables	MAT 428	4
Applied Prob Theory	STA 241	4
Applied Statistics	STA 341	4
	Total Units	58

Required Support Courses		
Course		Units
Freshman Composition (A2)	ENG 104	4
Analytic Geometry & Calculus I (B4)	MAT 114	4
Analytic Geometry & Calculus II (B4)	MAT 115	4
General Physics (B1, B3)	PHY 131/131L	3/1
General Physics	PHY 132/132L	3/1
General Physics	PHY 133/133L	3/1
	Total Units	24

Unrestricted Electives		
Course	Units	
Unrestricted Electives	6-18	
Select a sufficient number of courses so that the total from "Required Support," "GE," and "Unrestricted Electives" is at least 98 units.		
Total Units	6-18	

Area		Units
Area A	Communication & Critical Thinking	12
	Oral Communication	
2	Written Communication	
3	Critical Thinking	
Area B	Mathematics & Natural Sciences	16
Select a	t least one lab course from sub-area 1 or 2.	
1	Physical Science	
2	Biological Science	
3	Laboratory Activity	
4	Math/Quantitative Reasoning	
5	Science & Technology Synthesis	
Area C	Humanities	16
1	Visual 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	'	
3	Sociology, Anthropology, Ethnic & Gender Studies	
4		
Area E	Lifelong Understanding & Self Development	4
	Total Units	68

erican Institutions sees that satisfy this requirement may also satisfy G.E. Area 8	
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American Cultural Perspectives Requirement	
Refer to catalog for list of courses that satisfy this requirements.	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
Freshman Composition	ENG 104	A2
General Physics	PHY 131/131L	B1, B3
Analytic Geometry and Calculus I	MAT 114	B4
or Analytic Geometry and Calculus II	MAT 115	(B4)

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

Course		Units
Choose 6 courses from the following List.		24
Graph Theory	MAT 370	(4)
Math of Operations Research	MAT 380	(4)
Math of Operations Research	MAT 381	(4)
Numerical Analysis	MAT 401	(4)
Numerical Methods	MAT 402	(4)
Differential Equations	MAT 431	(4)
Differential Equations	MAT 432	(4)
Combinatorics	MAT 470	(4)
Mathematical Programming	MAT 480	(4)
Math Modeling	MAT 485	(4)
Math Modeling	MAT 486	(4)
Sampling Theory and Applications	STA 310	(4)
Nonparametric Statistics	STA 420	(4)
Applied Survival Analysis	STA 425	(4)
Stochastic Processes	STA 430	(4)
Applied Regression Analysis	STA 432	(4)
ANOVA & Design of Experiments	STA 435	(4)
Mathematical Statistics I	STA 440	(4)
Mathematical Statistics II	STA 441	(4)
Special Topics	STA 499	(1-4)
	Total Units	24