Plan (Major) MATHEMATICS

Subplan/Option ______ Secondary Teacher Prep/Pure Mathematics

Catalog Year _ Minimum Units Required

2013-2014 180

Name_ Student ID

California State Polytechnic University, Pomona **Degree Curriculum Sheet**

TGA_	
GWT	Satisfied

Yes

No

4

Course		Unite
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

58 Total Units

Required Subplan/Option Core Courses		
Course		Units
Choose 6 courses from the following List. No more th	an 2	
Geometry courses may be selected from MAT 330, M	AT 415,	
MAT 416.		24
History of Math	MAT 206	(4)
	IVIAI 300	(4)
	IVIAT 321	(4)
Introduction to Number Theory	MAT 325	(4)
Nodern Euclidean Geometry	IVIAI 330	(4)
Graph Theory	MAI 370	(4)
Advanced Calculus	MAI 413	(4)
Foundations of Geometry	MAI 415	(4)
Projective Geometry	MAT 416	(4)
Abstract Linear Algebra	MAT 419	(4)
Differential Geometry	MAT 420	(4)
Functions of a Complex Variable	MAT 429	(4)
Topics in Contemporary Secondary	MAT 497	(4)
School Mathematics III		
Foundations of Mathematics	MAT 450	(4)
Combinatorics	MAT 470	(4)
	-	. /
	Total Units	24

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 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
1	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	History, Economics and Political Science	
3	Sociology, Anthropology, Ethnic & Gender Studies	
4	Social Science Synthesis	
Area E	Lifelong Understanding & Self Development	4
	Total Units	68

American Institutions

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

American Cultural Perspectives Requirement
Refer to catalog for list of courses that satisfy this requirement

Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.

The following required support courses shoul indicated GE Requirements to achieve the mi at the top of this sheet.	d be taken to satisfy th nimum units to degree	ie listed
Course		GE Area
Freshman Composition General Physics Analytic Geometry and Calculus I or Analytic Geometry and Calculus II	ENG 104 PHY 131/131L MAT 114 MAT 115	A2 B1, B3 B4 (B4)
The remaining GE requirements may be satist that area.	fied by any course appr	oved for

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.

A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.