

California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Major) __MATHEMATICS

Subplan/Option <u>Secondary Teacher Prep/Pure Mathematics</u>

 Catalog Year
 2010-2011
 Name
 Evaluator

 Minimum Units Required
 180
 Student ID
 GWT Satisfied

Required Core Courses		
Course		Units
FORTRAN	CS 125	4
or 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	MAT 314	4
Intermediate Analysis	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/Lab (B1, B3)	PHY 131/131L	3/1
General Physics/Lab	PHY 132/132L	3/1
General Physics/Lab	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.	6-18
Total Units	6-18

Area		Units
	Communication & Critical Thinking	12
	Oral Communication	-
2	Written Communication	
3	Critical Thinking	
	Mathematics & Natural Sciences	16
Select a	t least one lab course from sub-area 1 or 2.	
1	Physical Science	
2	Biological Science	
	Laboratory Activity	
	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

_Yes

D1	ican Institutions es 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 requirement.	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.

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Course		GE Area
Freshman Composition General Physics/Lab 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 satisfied by any course approved for that area.

Required Subplan/Option Courses		
Course		Units
Choose 6 courses from the following List. No more than 2 Geometry courses may be selected from MAT 330, MAT 415, MAT 416.		24
History of Math Topology Introduction to Number Theory Modern Euclidean Geometry Graph Theory Advanced Calculus Foundations of Geometry Projective Geometry Abstract Linear Algebra Differential Geometry Functions of a Complex Variable Topics in Contemporary Secondary School Mathematics III Foundations of Mathematics Combinatorics	MAT 306 MAT 321 MAT 325 MAT 330 MAT 370 MAT 413 MAT 415 MAT 416 MAT 419 MAT 420 MAT 429 MAT 427 MAT 497	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)
	Total Units	24