## California State Polytechnic University, Pomona <br> Degree Curriculum Sheet

Plan (Major) MATHEMATICS
Subplan/Option Applied Mathematics/Statistics $\qquad$

## Required Core Courses

Required of all students. A 2.0 cumulative GPA is required in core courses, including subplan courses, in order to receive a degree in the major.

CS 128 - Introduction to C++ (4)
MAT 116 - Analytic Geometry and Calculus III (4)
MAT 201 - Introduction to Numerical Methods (4)
MAT 208 - Introduction to Linear Algebra (4)
MAT 214 - Calculus of Several Variables I (3)
MAT 215 - Calculus of Several Variables II (3)
MAT 216 - Differential Equations (4)
MAT 310 - Basic Set Theory and Logic (4)
MAT 314 - Intermediate Analysis (4)
MAT 315 - Intermediate Analysis (4)
MAT 417 - Modern Algebra (4)
MAT 418 - Modern Algebra (4)
MAT 428 - Functions of a Complex Variable I (4)
STA 241 - Applied Probability Theory (4)
STA 341 - Applied Statistics (4)

## Total Units 58

## Required Subplan/Option Core Courses

Choose 6 courses from the following list.
MAT 370 - Graph Theory (4)
MAT 380 - Mathematics of Operations Research (4)
MAT 381 - Mathematics of Operations Research (4)
MAT 401 - Numerical Analysis (4)
MAT 402 - Numerical Methods in Differential Equations (4)
MAT 431 - Differential Equations (4)
MAT 432 - Differential Equations (4)
MAT 470 - Combinatorics (4)
MAT 480 - Mathematical Programming (4)
MAT 485 - Mathematical Modeling and Simulation (4)
MAT 486 - Mathematical Modeling and Simulation (4)
STA 310 - Sampling Theory and Applications (4)
STA 420 - Nonparametric Statistics (4)
STA 425 - Applied Survival Analysis (4)
STA 430 - Introduction to Random Processes (4)
STA 432 - Applied Regression Analysis (4)
STA 435 - Analysis of Variance and Design of Experiments (4)
STA 440 - Mathematical Statistics I (4)
STA 441 - Mathematical Statistics II (4)
STA 499/499A/499L - Special Topics for Upper Division Students (1-4/1-4/ 1-4) (lecture component)
Total Units 24
$\qquad$
Minimum Units Required $\qquad$

Name
Student ID

## General Education Requirements

## Area A Communication \& Critical Thinking (12 units)

1. Oral Communication
2. Written Communication
3. Critical Thinking

## Area B Mathematics \& Natural Sciences (16 units)

1. Physical Science
2. Biological Science
3. Laboratory Activity
4. Math/Quantitative Reasoning
5. Science \& Technology Synthesis

Area C Humanities (16 units)

1. Visual and Performing Arts
2. Philosophy and Civilization
3. Literature and Foreign Language
4. Humanities Synthesis

## Area D Social Sciences (20 units)

1. U.S. History, Constitution, American Ideals
a. United States History
b. Introduction to American Government
2. History, Economics and Political Science
3. Sociology, Anthropology, Ethnic \& Gender Studies
4. Social Science Synthesis

Area E Lifelong Understanding \& Self Development (4 units)

## Total Units 68

| American Institutions |
| :--- |
| Courses that satisfy this requirement may also satisfy GE Area D1 |

## American Cultural Perspectives Requirement

Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.

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[^0]:    All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.

