**CATALOG TERM: 2023-2027** **TOTAL UNITS REQUIRED = 58-62**

# SINGLE-SUBJECT MATTER PREPARATION PROGRAM IN MATHEMATICS

- The SSMP is NOT a major. Students must also satisfy the requirements of a major to receive a bachelor's degree.
- Students interested in the SSMP should consult the Mathematics SSMP Coordinator as soon as possible to obtain detailed information on GPA requirements and the portfolio of work that must be compiled.
- For more information on the SSMP, visit: www.csusm.edu/math.
- The best preparation for students interested in pursuing the Single-Subject Credential in Mathematics is the Education Option of the Bachler of Science in Mathematics.

## COURSEWORK REQUIREMENTS:

| ✓ | Course | Units |
|---|---|---|
| | CS 111: Computer Science I (^MATH 125,126, or 160) or equivalent | 4 |
| | EDUC 350: Foundations of Teaching as a Profession (take same semester as MATH 314) | 3 |
| | PHYS 201: Physics of Mechanics and Sound (*MATH 160) | 4 |
| | MATH 160: Calculus with Applications I (*MATH 125, 126 or pass Calculus Readiness Diagnostic) | 5 |
| | MATH 162: Calculus with Applications II (*MATH 160) | 4 |
| | MATH 260: Calculus with Applications III (*MATH 162) | 4 |
| | MATH 314: Workshop for Future Mathematics Educators (*MATH 162; ~EDUC 350) | 2 |
| | MATH 330: Introduction to the History of Mathematics (*MATH 160) | 3 |
| | MATH 350: Foundations for Theoretical Mathematics (*MATH 160 with an A- or higher or MATH 162) | 3 |
| | MATH 264 (*MATH 162) **or** MATH 374: Linear Algebra (*MATH 160) | 3 |
| | MATH 378: Number Systems (*MATH 350) | 3 |
| | MATH 410: Modern Geometry (*MATH 350) | 3 |
| | MATH 430: Foundations of Analysis (*MATH 378) | 3 |
| | MATH 441: Introduction to Probability (*MATH 260) | 3 |
| | MATH 442[+]: Introduction to Mathematical Statistics (*MATH 441) | 3 |
| | MATH 470: Introduction to Abstract Algebra (*MATH 378) | 3 |

**Elective Courses:**

Choose 6 units from the following courses:

MATH 346: Mathematical Methods for Physics (3) (*MATH 162)
MATH 362: Differential Equations (3) (*MATH 162)
Any other MATH courses numbered 411-599 approved for the mathematics major and not already used to fulfill a requirement.

| ✓ | Course | Units |
|---|---|---|
| | | 3 |
| | | 3 |

**prerequisite; ^co/prerequisite; ~corequisite*

[+]*Students may choose to substitute MATH 242 and an additional 3 units of Electives for MATH 442.*