CATALOG TERM: 2023-2025

TOTAL UNITS REQUIRED = 24-25

MATHEMATICS MINOR

- This worksheet is intended for supplemental use only. The University will use your Academic Requirements Report (ARR) to track your graduation requirements, including those for your minor. Please continue to check your ARR for accuracy.
- If your ARR requires a correction, please submit an ARR Correction Form.
- Your Degree Planner (in mycsusm.edu) will display the following requirements in the University’s recommended sequence.
- All courses used for the minor must be completed with a grade of C (2.0) or better.
- A minimum of 9 upper-division units must be completed at CSUSM.
- The minor must contain at least 6 units beyond those used for major requirements and other minors (APC 265-03).
- All non-articulated courses MUST be reviewed and approved in advance by a Mathematics faculty advisor.

LOWER-DIVISION COURSES (9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 160: Calculus with Applications I</td>
<td>5</td>
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<tr>
<td>MATH 162: Calculus with Applications II</td>
<td>4</td>
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ELECTIVE COURSES (15 UNITS MINIMUM)

Select 15 units from the following (at least 9 units must be upper-division/numbered 300 or higher):

- MATH 260: Calculus with Applications III (4) (*MATH 162)
- MATH 264: Introduction to Linear Algebra (3) (*MATH 162)
- MATH 270: Basic Discrete Mathematics (3) (*MATH 160) or
- MATH 350: Foundations for Theoretical Mathematics (3) (*MATH 160 with an A- or higher or MATH 162)
- MATH 330: Introduction to the History of Mathematics (3) (*MATH 160)
- MATH/EE 342: Probability and Statistics for Engineers/Scientists (3) (*CS 111 and MATH 260 or 260A)
- MATH 346: Mathematical Methods for Physics (3) (*MATH 162)
- MATH 362: Differential Equations (3) (*MATH 162)
- MATH 364: Intermediate Linear Algebra (*MATH 264 and MATH 270 with B or higher or MATH 350)
- MATH 378: Number Systems (3) (*MATH 350)
- MATH/CS 464: Numerical Analysis and Computing (3) (*CS 111, MATH 162)
- MATH/CS 480: Introduction to Optimization (3) (*MATH 264 or 374)

Any other MATH courses numbered 410-499 or 505 and above.

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<tbody>
<tr>
<td>Upper-division MATH course:</td>
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*prerequisite; ^if MATH 270 is taken for the minor, it must be passed with a grade of B or higher; ^if MATH/EE 342 is used for the minor, MATH 441 or 442 cannot be used as Electives in the minor.