MINOR IN MATHEMATICS

Program Learning Outcomes

a. Solve problems by using mathematical techniques such as optimization, applied linear algebra, differential equations, and statistical inference.

b. Formulate and analyze mathematical conjectures and justify conclusions rigorously in sound mathematical English.

c. Achieve knowledge integration both in content and practice, for instance, by solving problems that arise from the mathematical modeling of practical situations.

d. Communicate effectively to a variety of audiences using oral, written, and visual modes.

Mathematics Minor — 24 units minimum

- At least 12 units of courses counted toward the minor, including at least 6 upper-division units, must be completed at SF State.
- CR/NC grades are not acceptable in courses taken to fulfill Mathematics minor requirements.
- All coursework used to satisfy the requirements of the minor must be completed with a minimum grade point average of 2.0.

Core (15-16 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
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</tbody>
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Select One:

- MATH 225 Introduction to Linear Algebra
- MATH 325 Linear Algebra

Electives (9 units)

Upper-division electives on advisement. Courses numbered MATH 325, MATH 375, MATH 475, and MATH 500 through MATH 599 may not be counted as electives toward the Mathematics minor.