## MATHEMATICAL PROBLEM SOLVING, MINOR-LIBERAL ARTS

| Liberal Arts (Code 180-409) |  |  |
| :---: | :---: | :---: |
| A minimum of 24 credits from mathematics courses must be earned as described below. |  |  |
| Code | Title | Credits |
| Core Requirements: |  |  |
| MATH 114 | Calculus I | 4 |
| MATH 365 | Patterns of Problem Solving | 4 |
| At least one of: |  |  |
| MATH 314 | Discrete Mathematics |  |
| MATH 322 | Abstract Algebra for Elementary Teachers |  |
| Additional courses may be chosen from: |  |  |
| MATH 201 | Number and Operations I |  |
| MATH 202 | Number and Operations II |  |
| MATH 246 | Elementary Statistics |  |
| MATH 297 | Developmental Tutoring Techniques (At most two credits count for minor) |  |
| MATH 302 | Algebraic Thinking |  |
| MATH 303 | Probability and Statistical Thinking |  |
| MATH 304 | Geometric Thinking |  |
| MATH 307 | Mathematics and Music |  |
| MATH 330 | Modern Geometry |  |
| MATH 341 | Classical Number Theory |  |
| MATH 441 | Linear Regression Analysis, with Time Series |  |
| MATH 451 | Teaching Mathematics with Technology |  |
| MATH 462 | History of Mathematics |  |

Or other mathematics courses numbered above 305

Note: Students cannot pursue a major in Mathematics and this minor to meet graduation requirements for completing a first and second degree program.

## Program Learning Outcome

Students completing this program will be expected to meet the following learning outcomes:

- Make sense of problems and persevere in solving them.
- Construct viable arguments and critique the reasoning of others utilizing precise language and multiple representations.
- Use appropriate tools strategically.
- Look for and make use of structure.

