<table>
<thead>
<tr>
<th>Course Number</th>
<th>Math 1130 Survey of Mathematics</th>
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<tbody>
<tr>
<td>Course Name</td>
<td>Math 1130 Survey of Mathematics</td>
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<tr>
<td>Credit Value</td>
<td>3 Theory</td>
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<td>(Breakdown of theory and lab credits)</td>
<td>3 Theory</td>
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**Catalog Course Description**

This course will develop students' ability to work with and interpret numerical data, to apply logical and symbolic analysis to a variety of problems, and/or to model phenomena with mathematical or logical reasoning. Topics include financial mathematics used in everyday life situations, statistics, and optional topics from a wide array of authentic contexts. MATH 100N or 100NL or appropriate score on placement exam. (3, 3T+0S)

**Course Student Learning Outcomes/Objectives/Competencies of the Course**

**Student Learning Outcomes:**

1. Construct and analyze graphs and/or data sets.
   a. Gather and organize information.
   b. Understand the purpose and use of various graphical representations such as tables, line graphs, tilings, networks, bar graphs, etc.
   c. Interpret results through graphs, lists, tables, sequences, etc.
   d. Draw conclusions from data or various graphical representations.

2. Use and solve various kinds of equations.
   a. Understand the purpose of and use appropriate formulas within a mathematical application.
   b. Solve equations within a mathematical application.
   c. Check answers to problems and determine the reasonableness of results.

3. Understand and write mathematical explanations using appropriate definitions and symbols.
   a. Translate mathematical information into symbolic form.
   b. Define mathematical concepts in the student’s own words.
   c. Use basic mathematical skills to solve problems.

4. Demonstrate problem solving skills within the context of mathematical applications.
   a. Show an understanding of a mathematical application both orally and in writing.
   b. Choose an effective strategy to solve a problem.
   c. Gather and organize relevant information for a given application.

**College-Wide Student Learning Outcomes**

Math 1130 will expose students to the following NNMC College Wide Goals:

- **Critical thought:** Students are required to analyze and synthesize information and draw reasoned conclusions.
- **Quantitative reasoning:** Calculate, represent, apply, analyze, and communicate both quantitative and qualitative information.

**Program Student Learning Outcomes measured**

None