



<b>Course Number</b> <b>Course Name</b>	Math 1130 Survey of Mathematics
<b>Credit Value</b> <b>(Breakdown of theory and lab credits)</b>	3 Theory
<b>Catalog Course Description</b>	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)
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<p><b>Student Learning Outcomes:</b></p> <ol style="list-style-type: none"> <li>1. Construct and analyze graphs and/or data sets.             <ol style="list-style-type: none"> <li>a. Gather and organize information.</li> <li>b. Understand the purpose and use of various graphical representations such as tables, line graphs, tilings, networks, bar graphs, etc.</li> <li>c. Interpret results through graphs, lists, tables, sequences, etc.</li> <li>d. Draw conclusions from data or various graphical representations.</li> </ol> </li> <li>2. Use and solve various kinds of equations.             <ol style="list-style-type: none"> <li>a. Understand the purpose of and use appropriate formulas within a mathematical application.</li> <li>b. Solve equations within a mathematical application.</li> <li>c. Check answers to problems and determine the reasonableness of results.</li> </ol> </li> <li>3. Understand and write mathematical explanations using appropriate definitions and symbols.             <ol style="list-style-type: none"> <li>a. Translate mathematical information into symbolic form.</li> <li>b. Define mathematical concepts in the student's own words.</li> <li>c. Use basic mathematical skills to solve problems.</li> </ol> </li> <li>4. Demonstrate problem solving skills within the context of mathematical applications.             <ol style="list-style-type: none"> <li>a. Show an understanding of a mathematical application both orally and in writing.</li> <li>b. Choose an effective strategy to solve a problem.</li> <li>c. Gather and organize relevant information for a given application.</li> </ol> </li> </ol>
<b>College-Wide Student Learning Outcomes</b>	<p>Math 1130 learning objectives align with the following NNMC College Wide Goal:</p> <p><i>Critical thought: Students are required to analyze and synthesize information and draw reasoned conclusions.</i></p>