

# NORTHERN NEW MEXICO COLLEGE



<b>Course Number Course Name</b>	Math 4441 Probability
<b>Credit Value (Breakdown of theory and lab credits)</b>	3 Theory
<b>Catalog Course Description</b>	The course will cover mathematical models for random experiments, random variables, expectation, discrete and continuous distributions, joint distributions, conditional probabilities, independence, laws of large numbers, the central limit theorem, and moment generation functions. Prerequisite: MATH 2530. (3, 3T+0S)
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<p><b>Student Learning Outcomes:</b> At the end of this course the student will be understand:</p> <ol style="list-style-type: none"> <li>1. Discrete and continuous distributions</li> <li>2. Conditional probabilities and independence</li> <li>3. Central limit theorem</li> <li>4. Moment generating functions</li> </ol>
<b>College-Wide Student Learning Outcomes</b>	<p>Math 4441 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>