

# NORTHERN NEW MEXICO COLLEGE



<b>Course Number</b> <b>Course Name</b>	PHYS 3331, Thermodynamics and Statistical Mechanics
<b>Credit Value</b> <b>(Breakdown of theory and lab credits)</b>	3 Theory
<b>Catalog Course Description</b>	You will study the concepts of heat and thermodynamics, large numbers and probability distributions, oscillator, spin and gas systems, simple interacting systems, and Fermi statistics. Prerequisites: MATH 3311 and 3314. (3, 3T+0L)
<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 understand:</p> <ol style="list-style-type: none"> <li>1. Heat and thermodynamics.</li> <li>2. Probability distributions.</li> <li>3. Oscillator, spin, and gas systems.</li> <li>4. Fermi statistics.</li> </ol>
<b>College-Wide Student Learning Outcomes</b>	<p>PHYS 3331 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>