

NORTHERN NEW MEXICO COLLEGE



Course Number Course Name	PHYS 4405, Electricity and Magnetism
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	4405 ELECTRICITY AND MAGNETISM You will study electrostatics, the theory of dielectric materials, magnetostatics, the theory of magnetic materials, direct and alternating circuit theory, Maxwell equations, propagation, refraction and reflection of plane waves and wave guides. Prerequisites: MATH 3311 and 3312.
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Student Learning Outcomes: At the end of this course the student will understand:</p> <ol style="list-style-type: none"> 1. Electrostatics. 2. Magnetostatics. 3. Electrical circuits. 4. Maxwell's equations. 5. Refraction and reflection of light.
College-Wide Student Learning Outcomes	<p>PHYS 4405 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>