

# NORTHERN NEW MEXICO COLLEGE



<b>Course Number</b>	BIOL 4410 Bioinformatics
<b>Course Name</b>	
<b>Credit Value (Breakdown of theory and lab credits)</b>	3 Theory
<b>Catalog Course Description</b>	You will use computers to search biological databases to hunt for genes, discover protein structures, and determine phylogenetic trees from molecular evolution.
<b>Course Student Learning Outcomes/Objectives/Competencies</b>	Understand capabilities of bioinformatics Familiarity with a variety of tools and applications used in bioinformatics Basic understanding of how bioinformatics applications function Differentiate between different types of databases and associated terminology Explain the significance of structural similarity and homology
<b>College-Wide Student Learning Outcomes measured (General education courses only)</b>	
<b>Program Student Learning Outcomes measured</b>	1. Provide students with technical and analytical skills used in modern biological research. This will allow the students to demonstrate proper and safe laboratory practice, proper use of equipment and the ability to work effectively with computational, mathematical and statistical approaches.