



Course Number Course Name	BIOL 110 CURRENT TOPICS IN BIOLOGY
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	You will study important current issues in biology, including changes in the biosphere, evolution, genetics, medical advances, and biotechnology. This course is suitable for non-science majors. <i>Prerequisite:</i> ENG 109N; <i>Co-requisite:</i> BIOL 110L. (3, 3T+0S). Meets New Mexico Lower Division General Education Core Curriculum Area III Laboratory Science (NMCCN BIOL 1114 with lab)
Student Learning Outcomes/Objectives /Competencies of the Course	<ol style="list-style-type: none"> 1. Explain the value of the scientific method as a means for understanding the natural world and for formulating testable predictions. 2. Explain how chemical and physical principles apply to biological processes at the cellular level. 3. Understand basic concepts of cell biology. 4. Understand that all organisms share properties of life as a consequence of their common ancestry. 5. Understand fundamental processes of molecular biology. 6. Understand the mechanisms of evolution, including natural selection, genetic drift, mutations, random mating, and gene flow. 7. Understand the criteria for species status and the mechanisms by which new species arise. 8. Understand methods for inferring phylogenetic relationships and the basis for biological classification. 9. Recognize the value of biological diversity (e.g., bacteria, unicellular eukaryotes, fungi, plants, and animals), conservation of species, and the complexity of ecosystems. 10. Explain the importance of the scientific method for addressing important contemporary biological issues.
College-Wide Student Learning Outcomes	<ol style="list-style-type: none"> 1. <i>Cultural Competence</i> <i>Students will be assessed with an assignment related to the importance to biological studies around the world and in different cultures.</i>