

# NORTHERN NEW MEXICO COLLEGE



<b>Course Number</b> <b>Course Name</b>	ES 205 Critical Thinking in Science
<b>Credit Value</b> <b>(Breakdown of theory and lab credits)</b>	3 Theory
<b>Catalog Course Description</b>	Critical Thinking in Science will improve and/or develop student's proficiencies in thinking and problem solving ultimately resulting in improved decision-making abilities. This course will examine the process through which thought and problem-solving take place and to expand upon the critical thinking skills that will lead to optimizing the student's ability to succeed in all fields of science. Many problems students will face as science professionals do not have obvious answers; therefore, the goal this course is to enable students to rely upon skills taught to address the problem aided by a proven method leading to greater creativity in problem solving, decision making and science leadership.
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<ul style="list-style-type: none"> <li>• Understanding the process of critical thinking and problem solving.</li> <li>• Learning tools that can aid in problem solving and decision making.</li> <li>• Learn to evaluate available information with the understanding of bias and perception.</li> <li>• Learn to recognize and challenge assumptions and presuppositions.</li> <li>• Learn to make a reasoned argument and to defend and/or see error in the argument (art of debate).</li> <li>• Be able to identify and manage the risks associated with making and implementing decisions.</li> <li>• Learn to analyze and assess the strength of an argument and the implications for a course of action.</li> <li>• Learn to identify and explain and/or rectify logical errors in an argument or scientific result.</li> <li>• Be able to generate critical scientific questions and develop a course of action to address the questions.</li> <li>• Building self confidence in critical thinking, problem solving, decision making and leadership in Science.</li> </ul>
<b>College-Wide Student Learning Outcomes</b>	<p><i>ES 2XX will align with NNMC college wide goal:</i></p> <p><i>1. Critical Thought</i></p> <p><i>The course and all assessments will be geared towards improve this skill.</i></p>