



Course Number	MATH 3395, Practicum in Mathematics
Course Name	
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	This course prepares the student to develop the skills to use mathematics and apply mathematical skills to model and solve a real life problem. The student will be involved in researching a topic of his/her choice under the guidance of a faculty member. The topic could be selected from any applied area: Biology, Engineering, Environmental Science, Physics, or Business, for example. Prerequisite: MATH 2410 or MATH 3316 or permission from the instructor. (3, 3T+0L)
Course Student Learning Outcomes/Objectives /Competencies of the Course	Student Learning Outcomes: At the end of this course the student will understand a practical research topic in depth using analytical and/or computational techniques.
College-Wide Student Learning Outcomes	MATH 3395 exposes students to the following NNMC College Wide Goals: <i>Critical thought: Students are required to analyze and synthesize information and draw reasoned conclusions.</i> <i>Quantitative reasoning: Calculate, represent, apply, analyze, and communicate both quantitative and qualitative information.</i>
Program Student Learning Outcomes measured	PSLO #3: Use linear algebra and matrices, vector analysis, ordinary differential equations, partial differential equations, or complex analysis to solve real world problems. PSLO #6: Use computational programming and numerical analysis to solve a mathematical problem.