MATH 4180-4380, Undergraduate Research in Mathematics
One to three semester hours (FL/SP/SS)

Course Descriptions:
Students work on a theoretical or applied research project. The plan of study is negotiated by the faculty member and the student. Course may be repeated under different topic for credit. 
Prerequisite: Consent of the instructor and the department. Offer only “Satisfactory/Fail” grades.

Student Learning Outcomes:
Upon successful completion of this course, the student will be able to:

• identify appropriate steps necessary to conduct research in mathematics or applied mathematics project;
• learn of mathematical writing required in documenting outcomes of the research;
• make use of proper notation and vocabulary as it relates to the research problem conducting;
• develop required skill in presentation of a research topic;
• present the research problem to a knowledgeable audience.

Justification: It is needed to add the course with the title of Undergraduate Research in Mathematics rather than use Independent Study in Mathematics. In addition, this course will focus on the research topic.