

MAT 502: Guided Study in Mathematics

I. Basic Course Information

MAT 502, is a graduate level course for students interested in studying advanced mathematical topics that are not covered in the undergraduate courses offered in the department. To register for the course, students must make arrangements with a faculty member of the department who agrees to serve as a mentor for the guided study. Students must have taken at least two 400-level MAT courses and have at least a 3.5 GPA in their math courses to register for the course.

The faculty mentor and student(s) will write a proposal explaining the subject matter that will be studied as well as the way the student's work will be assessed. A guided study contract/ enrollment form must be prepared by the student, approved by the faculty mentor and the department chairperson, and submitted to the Office of Records and Registration at the time the student registers for the course. Registration for guided study will be accepted only through the first week of the semester.

At most one course unit of Independent Study, Guided Study, or Independent Research may count as one of the Mathematics or Statistics options for a major. The total course load of a student taking Independent Study, Guided Study, or Independent Research should be at most 4.5 course units. Independent Study, Guided Study, or Independent Research courses may not be taken in order to improve a grade, or to replace a course that a student failed to sign up for.

II. Learning Goals

- a. A deep understanding of some selected graduate level topics in mathematics.
- b. To improve a student's ability to read and write mathematics.

III. Student Assessment

Students will meet with their faculty mentor on a weekly basis. They will have weekly assignments that they will discuss with the faculty mentor. They will be assessed, by the faculty mentor, based on their weekly progress. At the end of the semester students must present the results of their study to the faculty mentor.

IV. Learning Activities

The learning activities will be decided by the faculty mentor. They will be specified in the original proposal submitted to the department chairperson for approval.