

Math 4390 Senior Project General Syllabus Sul Ross State University

Course and Student Learning Objectives

The student will demonstrate adequate facility and success with the content of this independent study senior project course as supervised by 1 or more Sul Ross math professors. The math professor(s) will lay out the topics of study as agreed upon by the student and professor(s) at the beginning of the semester.

This course is supportive of the

Student Learning Outcomes for the Bachelor of Science degree in Mathematics:

- 1) The student will be able to demonstrate content knowledge of basic mathematical principles.
- 2) The student will be proficient in logic, able to negate statements, provide counterexamples to false statements, and determine the validity of arguments.
- 3) The student will be able to communicate mathematical content clearly and with valid reasoning.

Requirements

Besides the regular meetings and the 2 major requirements outlined below, the other requirements tailored for the particular course will be laid out by the professor(s) at the beginning of the semester.

1. There should be regular student-professor meetings for a total of 2-3 hours per week scheduled as agreed upon by the professor(s) and student. This includes attending the departmental seminar which meets many Fridays of the semester between 2-3 pm. Usually non-attendance of the departmental seminar more than once per semester will impact the student's grade except in the case of special circumstance.

* By the end of the term, the student will be asked to complete **2 major required goals:**

2. A paper: double-spaced, 12 pt. font, margins no more than 1 inch, 10 pages or more in length. It is possible that a larger font might be used, but a larger number of pages would then be required so that the total length of the paper will be the same.

3. The student will make a 20-50 minute presentation in the departmental seminar of some of their semester results or findings. All tenure-track math faculty should be present for math senior project final presentations. A method for these other math faculty to give their input to the grade of the final presentation will be devised.

Note on use of Multiple Professors: If 2 or more professors are chosen to be the instructor of record for this course, then communication and agreement must be reached among the professors as to the goals that the student will achieve and/or what parts of the course will be graded by which of the math professors. The course outline for this course must be agreed to by the professors early in the semester by the deadline presented by the university for all university course sections.

For example, it may be determined by the student and professors that different segments of this 3-hour course will be taught and assessed by a different professor.

Final Grade The instructor(s) will assign the **final grade** based on the above elements as he or she sees fit.

For example, the final grade might be assigned based on 30% for the paper, 20% for the seminar presentation, and 50% for other elements of the course such as class meeting

attendance, homework notebook, quizzes, tests, etc.

Note: An individual syllabus/course outline for a particular course will be created by the instructor(s) of record that will include elements required by the state that are not included in this general course syllabus.