

Senior Seminar I – Math 4160

Fall 2023

Professor: Dr. David Milan

Office: RBN 4006

Office Hours: 1:15-2:15pm MWF, or by appointment.

Email: dmilan@uttyler.edu

Office Phone: (903)565-5839 (email is best)

Web: class page on Canvas

Class Meeting Time: 12:20-1:15pm M

Prerequisites: The student must be within 3 semesters of graduation with a BS in mathematics.

Course Description: This is the first part of our two-part capstone course. The purpose of this course is to prepare you to work on your senior research project with your faculty mentor. In this course you will learn LaTeX, use databases to search for research articles, and hone your writing skills. This will all be done in the context of mathematical projects based on what you have learned in your course work at UT Tyler.

Learning Outcomes: By the end of the course students should be able to:

- Construct a well-written mathematical research paper.
- Typeset a mathematical document using LaTeX.
- Prepare a professional presentation using LaTeX or PowerPoint.

Course Evaluation: Your grade will be based on:

- Class participation & attendance (10%). It is expected that you will be present for all weekly meetings and that you will participate in all class related activities.
- Weekly Assignments (30%). A short assignment will often be given out during class. We will start these assignments in class. They will be due before the next class meeting.
- Papers and Poster (60%). There will be three papers and one research poster assigned during the semester. The papers will focus on reading mathematics, writing mathematics, learning LaTeX, and aiming one's writing for a particular audience.

Approximate Weekly Schedule

1	Aug. 21	Introductions
2	Aug. 28	Mathematical biographies (first paper assigned)
3	Sep. 4	Labor Day
4	Sep. 11	LaTeX tutorial (part 1)
5	Sep. 18	LaTeX tutorial (part 2)
6	Sep. 25	Searching mathematics databases.
7	Oct. 2	Textbook exercise (second paper assigned)
8	Oct. 9	Reading mathematics
9	Oct. 16	Writing mathematics (third paper assigned)
10	Oct. 23	Peer review of papers
11	Oct. 30	Tutorial on poster presentations
12	Nov. 6	Peer review of posters
13	Nov. 13	Poster presentations
14	Nov. 20	Thanksgiving Holiday
15	Dec. 4	Advisor assignments

Important Dates:

September 1: Census date: date to withdraw without penalty, grade replacement deadline.

October 30: Last day to drop course with a W.

Policies: See <https://www.uttyler.edu/academic-affairs/files/syllabuspolicy.pdf> for these important University policies: UT Tyler Honor code, student rights and responsibilities, campus carry, UT Tyler a tobacco-free university, grade replacement and forgiveness, state-mandated course drop policy, student accessibility and resources, student absence for university-sponsored events, social security and FERPA, emergency exits and evacuation, and student standards of academic conduct.