

Syllabus for Senior Math Seminar, MAT 4934, Class Number 82537, Fall 2025

Synopsis for the Senior Seminar (MAT 4934). This is a one credit class designed to give the graduating Math and Math-Sci majors the venue (and the help) to prepare for their presentations and the exit exam in the class. The Seminar is not a place to learn things from scratch. It is a place mostly to review things, on a maybe higher level. The emphasis is put on students' presentations as opposed to the practice in the usual classes (Instructors' presentations). No (standard) Quizzes or Midterms will be performed here. Instead, the students will be developing “portfolios” based on their presentations (oral and written) during the semester. Final presentation: a 15 min power point presentation on a math related topic will be done by the students in the last week of classes and in front of a special committee of faculty members who will assess the presentation. Final examination: Exit Exam (written) in the week of Finals.

Suggested books: the math books the students have used during their studies at FIU.

Content: The Seminar will cover topics from the following subjects:

Linear Algebra, Algebraic Structures, Advanced Calculus, Ordinary Differential Equations, Classical Partial Differential Equations, Probability/Statistics, Numerical Analysis, Discrete Mathematics, and Theory of Algorithms.

These topics will cover the material to be checked for both Math and Math-Science majors (the math part for the latter ones).

Math major subjects: LA, AlgStr, AdvC, ODE, P/S.

Math-Sci major subjects: LA, ODE, CPDE, P/S, NumAn, DM, ThAlg.

Academic Misconduct Statement

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.

Academic Misconduct includes: **Cheating** – The unauthorized use of books, notes, aids, electronic sources; or assistance from another person with respect to examinations, course assignments, field service reports, class recitations; or the unauthorized possession of examination papers or course materials, whether originally authorized or not. **Plagiarism** – The use and appropriation of another's work without any indication of the source and the representation of such work as the student's own. Any student who fails to give credit for ideas, expressions or materials taken from another source, including internet sources, is responsible for plagiarism.

To learn more about the academic integrity policies and procedures visit integrity.fiu.edu

Accessibility and Accommodation

The Disability Resource Center collaborates with students, faculty, staff, and community members to create diverse learning environments that are usable, equitable, inclusive and sustainable. The DRC provides FIU students with disabilities the necessary support to successfully complete their education and participate in activities available to all students. If you have a diagnosed disability and plan to utilize academic accommodations, please contact the Center at 305-348-3532 or visit them at the Graham Center GC 190.

For additional assistance please contact FIU's [Disability Resource Center](#)

Remark: The instructor keeps the right to make changes in the syllabus whenever that is academically appropriate.