

# Math 5310 Course Syllabus - Fall 2019

**Meets:** TR 2:00-3:20 in Audb 201

**Instructor:** Dr. Pieter Allaart

**Office:** GAB, Room 415; Phone: 369-7313

**Office Hours:**

- Mon, Wed, Fri 9:30-10:30
- Tue 11:00-12:00
- and by appointment.

You are also welcome to drop by outside office hours without an appointment. Keep in mind that I may be busy, and I may ask you to wait or to come back later.

**E-mail:** [allaart@unt.edu](mailto:allaart@unt.edu)

**Book:** Real Analysis (4th edition), by H. L. Royden

**Grading:** Grades will be based on class participation (20%), homework (40%), a mid-term exam (20%), and a final exam (20%).

**Mid-term Exam:** The mid-term exam is tentatively scheduled for Thursday, October 17.

**Final Exam:** The final exam will be on Thursday, December 12 at 1:30 pm.

**Homework:** Homework will be assigned periodically, and you will always be given at least one week to complete it. You are allowed to work together on the homework, but in the end, everybody is expected to understand the solution. I would prefer to see original solutions.

Most of the exercises involve proofs. I expect complete rigor! Write clearly and legibly. You are encouraged, but not required, to type your homework in LaTeX. Show ALL of the details. Start each problem on a new page. Your work should be double spaced so that I may write comments and give you feedback. This means one blank line between every two lines of writing. Leave plenty of space in the margins.

Homework which is messy or difficult to read will not be graded. If you could not come to class, and missed the assignment, it is your responsibility to find out what the assignment is (see below).

**Web page:** Homework assignments and other important information concerning this class will also be posted on the web at <http://www.math.unt.edu/~allaart/classes>. Whenever you miss class, check this page to find out about assignments that you missed.

**Attendance:** You are expected to attend class at all times, except when you are ill or have some other extenuating circumstance. If you cannot come to class, you should contact me before class. Unauthorized absences will usually harm the class participation portion of your grade. The same is true for arriving late for class without a valid excuse.

**Qualifying Exam:** This course helps you prepare for the Real Analysis qualifying examination. If you plan to take this qualifying exam, the best thing you can do to help your chances of passing it is to do well in this course. I recommend you take complete notes and keep any handouts in a safe place for future reference.

**Disabilities:** It is the responsibility of students with certified disabilities to provide the instructor with appropriate documentation from the Dean of Students Office.

**Cheating:** No cheating will be tolerated. Anyone caught cheating will be subject to any penalty the instructor deems appropriate, up to and including an automatic F for the course. Furthermore, a letter will be sent to the appropriate dean.