

Math 3100 - Sequences and Series - Fall 2009

Instructor Neil Lyall
: Boyd GSRC 602A
Office: lyall (followed by
E-mail: @math.uga.edu)

Time/Location MW 12:20-1:10 (Boyd
: F 304)
Office Hours: MW 11:15-12:15
(to be F
confirmed)

Textbook [*Sequences and Series: An Introduction to Mathematical Analysis*](#) by
: Malcolm Adams

About this course: You will find this course to be very different from the more computationally based courses at the 2000 level (like Calculus). This course is meant to help the transition to the more abstract, theoretical courses at the 4000 level and above. Not only will you be expected to learn this material at the computational level, but you will also be studying the proofs of the theorems and learning to write in “rigorous” mathematical style. Because you will be looking at mathematics at a much deeper level than you may have in the past, this course will be very challenging. You must never settle for just finding the right answer to a question, you must make sure that you really understand why that answer is correct, and then, you must strive to communicate that understanding in a clear and concise way.

Homework: Whenever we finish a section, homework will be assigned. Homework will most likely be collected once a week.

Quizzes: There will be a short quiz on most Fridays.
: No make up quizzes will be given!

Exams: There will be three in-class "midterm" exams and (of course) a final exam. **
dates subject to change**

Exam 1: Friday 18th of September (after chapter 1) [Exam 1](#)

Exam 2: Friday 23rd of October (after chapter 2) [Exam 2](#)

Exam 3: Friday 4th of December (after chapter 3) [Exam 3](#)

Final Exam: ??

Grading: Homework/Quizzes: Tests: Final: 30%
25% 45%
(15%
each)

For full credit, full work must always be shown. Any absence on a test day will result in a test grade of 0. It will

be possible to make up for a missed test only if documented justification for the absence is provided.

WP/WF policy: The official attendance policy of the university states:
Students are expected to attend classes regularly. A student who incurs an excessive number of absences may be withdrawn from a class at the discretion of the professor
(<http://bulletin.uga.edu/bulletin/ind/attendance.html>)

In this class, we interpret "excessive" to mean four or more unexcused absences. A student withdrawing after the first exam will receive a WF unless he/she has a marginally passing (D) average in the class (taking into account all relevant data: homework/quiz grades, exams, attendance).

Academic Honesty: As a University of Georgia student, you have agreed to abide by the University's academic honesty policy, "A Culture of Honesty," and the Student Honor Code. All academic work must meet the standards described in "A Culture of Honesty" found at: www.uga.edu/honesty. Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation. Questions related to course assignments and the academic honesty policy should be directed to the instructor.

The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary

Tentative Course Schedule (This will be continuously revised/modified as needed!)

Week	Monday	Wednesday	Friday
08/17 - 08/21	1.1	1.2	1.2 & Quiz 1
08/24 - 08/28	1.3	1.3	1.4 & Quiz 2
08/31 - 09/04	1.4	1.4	1.5 & Quiz 3
09/07 - 09/11	Labor Day	1.5	1.6 & Quiz 4
09/14 - 09/18	1.6	<i>Review</i>	Exam 1
09/21 - 09/25	1.7	1.7	1.7 & Quiz 5
09/28 - 10/02	2.1	2.1	2.1 & Quiz 6

10/05 - 10/09		2.2	2.2	2.2 & Quiz 7
10/12 - 10/16		2.2	2.3	2.3 & Quiz 8
10/19 - 10/23		2.3	<i>Review</i>	<u>Exam 2</u>
10/26 - 10/30		2.4	2.4	Fall Break
11/02 - 11/06		3.1	3.1	3.1 & Quiz 9
11/09 - 11/13		3.2	3.2	3.2 & Quiz 10
11/16 - 11/20		3.2	3.2	3.3 & Quiz 11
11/23 - 11/27		Thanksgiving Break		
11/30 - 12/04		3.3	<i>Review</i>	<u>Exam 3</u>
12/07 - 12/11		<i>Review</i>	<i>Review [Tuesday]</i>	

Homework Assignments, Practice Exams, and Handouts

Sequences				
Assignment	date due	Section	Questions (to be handed in)	Recommended Questions
1	Friday August 21	1.1	1,5,10,11,13	
2	Friday August 28	1.2	<i>2,11,14,18,19</i>	2,4,6,7,11,13,14,16,18,19
3	Friday September 4	1.3	<i>3,4,5,11,14</i>	1,2,3,4,5,9,10,11,14,15
4	Friday September 11	1.4		1,3,5,6,8,9,11,15,16,17