

Math 6190 Syllabus – Spring 2014

ANALYSIS I

Instructor Information

Instructor: Dr. Wandi Ding

Office: KOM 203G, **Phone:** 615-494-8936

E-mail: Wandi.Ding@mtsu.edu, **Web page:** <http://www.mtsu.edu/~wding>

Office Hours: MWF 9:00 – 10:00 a.m., MW 3:00 - 4:00 p.m., T 9:00 – 11:00 or by appointment

Course Information

Textbook: Methods of Real Analysis, 2nd edition by Richard Goldberg.

Class Schedule: MW 4:10-5:35 p.m. in KOM 221

Prerequisites: MATH 4250 or equivalent.

Content: Three credits. Rigorous treatment of limits, continuity, differentiation, and integration in n-dimensional Euclidean space; infinite series; introduction to metric spaces.

Objectives: Exposure to real analysis is important for those who enter graduate school in mathematics or mathematics education, as well as those who plan to teach mathematics at the secondary level or higher. We will also delve into some new topics which illustrate the power and applicability of real analysis. As a result of your successful completion of this course, you should gain the following:

- A broader perspective on mathematics as a whole, and
- the ability to present concise mathematical proofs orally and in writing.

Requirements: In general, you are expected to

1. attend class lectures and take good notes;
2. read the lecture notes thoroughly and solve the assigned problems. **No late homework will be accepted unless there are extraordinary situations out of your control.**
3. ask question in class when you are unsure of any concept or unclear on any assigned problem;

4. come to my office for additional assistance as necessary;
5. take all exams on the day they are scheduled. **If you miss one of the in class exams, you will have one week to schedule a make-up.** Please understand the make-up exams will be different. If one week passes and no make-up exam has been rescheduled then a **zero** is recorded for that exam.

Grading Policy:

Homework: 40%

Midterm: 30%

Final Exam: 30%

90-100 A, 80-89 B, 70-79 C, 60-69 D, Below 60 F.

Final Exam: Monday, May 5, 3:30 - 5:30 p.m.

Additional Information

Drop/Withdrawal Policy

Please note the Drop Policy and Withdrawal Procedures as they are stated in the Spring 2012 Registration Guide. The last day to drop this course without a grade is January 29. The last day to drop this course with a "W" is March 28. Last day of classes is April 30. A grade of "I" will be given only in accordance with University Policy.

Department Policy with Regard to Drops After the Official Drop Date

No grade of W will be assigned after the official drop date except in situations involving extreme extenuating circumstances beyond the student's control. In particular, a W will not be granted merely because the student is failing. Students should be aware that missing the official drop date and thereby receiving an F can have ramifications on financial aid.

Lottery Scholarships

Do you have a lottery scholarship? To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 and 48 attempted hours and a cumulative TELS GPA of 3.0 thereafter. You may qualify with a 2.75 cumulative GPA after 72 attempted hours (and subsequent semesters), if you are enrolled full-time and maintain a semester GPA of at least 3.0. A grade of C, D, F, FA, or I in this class may negatively impact TELS eligibility. Dropping or stopping attendance in a class after 14 days may also impact eligibility; if you withdraw from or stop attending this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. Lottery recipients are eligible to receive the scholarship for a maximum of five years from the date of initial enrollment, or until reaching 120 TELS attempted hours or earning a bachelor degree. For additional Lottery rules, please refer to

your Lottery Statement of Understanding form
<http://mtsu.edu/financialaid/forms/Lottery%20Statement%20of%20Understanding%202013-14.pdf> or contact the Financial Aid Office at 898-2830.

Academic Misconduct

Middle Tennessee State University takes a strong stance against academic misconduct. Academic Misconduct includes, but is not limited to, plagiarism, cheating, and fabrication.

Academic Misconduct: Plagiarism, cheating, fabrication, or facilitating any such act. For purposes of this section, the following definitions apply:

(1) **Plagiarism:** The adoption or reproduction of ideas, words, statements, images, or works of another person as one's own without proper attribution. This includes self-plagiarism, which occurs when an author submits material or research from a previous academic exercise to satisfy the requirements of another exercise and uses it without proper citation of its reuse.

(2) **Cheating:** Using or attempting to use unauthorized materials, information, or study aids in any academic exercise. This includes unapproved collaboration, which occurs when a student works with others on an academic exercise without the express permission of the professor. The term academic exercise includes all forms of work submitted for credit or hours.

(3) **Fabrication:** Unauthorized falsification or invention of any information or citation in an academic exercise.

To be clear: going online and taking information without proper citations, copying parts of other student's work, creating information for the purposes of making your paper seem more official, or anything involving taking someone else's thoughts or ideas without proper attribution is **academic misconduct**. If you work together on an assignment when it is not allowed, it is **academic misconduct**. If you have a question about an assignment, please come see me to clarify. Any cases of academic misconduct will be reported to the Office of Academic Affairs for violating the academic honesty requirements in the student handbook.

Disability Assistance

If you have a disability that may require assistance or accommodation, or you have questions related to any accommodations for testing, note takers, readers, etc., speak with me as soon as possible. Students must also contact the Office of Disabled Students Services (898-2783) with questions about scheduling such services.