Course Information
Math 4350–201
Summer II, 2012

July 16, 2012

Instructor: Prof. Lance D. Drager. Office: Math 236. Office Phone: 742–2580, Ext. 242.. If you let the office phone ring long enough, you'll get me or a voice mail system you can leave a message on. My e-mail address is `lance.drager@ttu.edu`.

Course materials will sometimes be posted on my web page, which is `http://www.math.ttu.edu/~drager`.

Office Hours: M–F 2:00–4:00. You can come by outside of formal office hours; I'll usually have time to talk to you. Please feel free to come by if you need help.

Other Sources of Help: The Mathematics Department Office has a list of people who offer tutoring for pay. Forming informal study groups with other students can be very helpful.

Text: The text is Bartle and Sherbert, **Introduction to Real Analysis, 3rd Edition**, published by Wilery. The 4th edition will be okay, but check to be sure that any problems assigned from the book are the same as in the third edition. We will cover chapters 1–5, and sections 6.1 and 6.2.

Student Learning Outcomes: Students learn how to think and reason abstractly in the context of analysis of the real line, and learn how to write correct and clear mathematical arguments in this context. There will be a heavy emphasis on proofs, especially epsilon-delta proofs. Concepts and skills to be mastered by the students include but are not limited to: suprema, infima, limits of sequences, limits of functions, continuous functions, derivatives of functions on the line. This is a writing intensive course.

Assessment of Learning Outcomes: The assessment of student's mastery of the skills and concepts as specified in the expected learning outcomes will occur, with appropriate course grades assigned, as follows:

1. 2 in-class exams.

2. The final exam.

3. Homework.

The in-class exams and the final will be equally weighted. The exams together will count for 40% of the grade.

Students will have a chance to receive feedback on the homework before rewriting it for a final grade. The homework will count for 60% of the final grade.

The final letter grade will be assigned by applying a curve to the numerical score. A numerical grade of 90% will be sufficent for an A, but the cutoff may go lower; similarily for the other letter grades.

Final Exam: The final exam is on Thursday, August 9, from 11:30 a.m. to 1:30 p.m. It will be given in our usual classroom.

Makeups: If you are absent from an exam and convince me that your reason was legitimate, I will give a makeup exam. Late homework will only be accepted with a serious, legitimate excuse.

Class Schedule: The tentative schedule for the class is as follows:

July 10–July 11 Chapter 1, Preliminaries

July 12–July 16 Chapter 2, The Real Numbers

July 17–July 24 Chapter 3, Sequences and Series

July 19 Time for Review Questions

July 20 Exam 1

July 25–July 27 Chapter 4, Limits

July 27 Time for Review Questions

July 30 Exam 2

July 31–August 3 Chapter 5, Continuous Functions

August 6–August 8 Chapter 6, Differentiation. (6.1–6.2).

August 8 Time for Review (last day of class).

August 9 Final exam, 11:00am–1:30pm.

If these dates are changed, the changes will be discussed in class and will appear on the calendar on my website. However, **this document will not be changed**.

Class Attendance: To begin with, I will not count attendance towards the grade, although I may pass out a sign up sheet to check the class roll. Many studies show that class attendance is important in getting a good grade. I will institute an attendance system if it seems necessary!

Remember, you are responsible for all material covered in class and all announcements made in class. If you have to miss a class, you should check with me or a classmate to see what happened.

Formative Assessment: Continuous formative assessment of the progress of the course will occur via ongoing communication between the instructor and the students. To this end, all students are encouraged to ask questions during class and to seek the instructor's help out of class when needed. Other activities in support of student-instructor communication will include: practice exams and quizzes, review of homework, and personal interviews with students doing poorly on work assigned at the beginning of the course.

Identification: You should be prepared to show your Texas Tech picture ID at any quiz or exam.

Accommodations for Disabilities: Any student who, because of a disability, may require special arrangements in order to meet course requirements should contact the instructor as soon as possible to make necessary accommodations. Students should present appropriate verification from Disabled Student Services, Dean of Students Office (AccessTECH). No requirement exists that accommodations be made prior to completion of this approved University process.

Religious Holy Days: A student may be absent from class for a religious holy day, as legally defined, and will be allowed to make up any missed examination or assignment within a reasonable time after the absence. See `http://www.depts.ttu.edu/officialpublications/catalog/_AcademicsRegulations.php`

Academic Misconduct: It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and a high standard of integrity. The attempt of students to present as their own work any work that they have not honestly preformed is regarded by the faculty and administration as a serious offense and renders the offenders liable to serious consequences, possibly suspension.

For more information, and a description of what is considered to be misconduct, see `http://www.depts.ttu.edu/officialpublications/catalog/_AcademicsRegulations.php`

Civility in the Classroom: Students are expected to assist in maintaining a classroom environment that is conducive to learning. In order to assure that all students have the opportunity to gain from time spent in class, unless otherwise approved by the instructor, students are prohibited from engaging in any other form of distraction. Inappropriate behavior in the classroom shall result, minimally, in a request to leave class.

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