Course Information
Math 5319–001
Spring 2010

January 19, 2010

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, 2:00pm–3:00pm. 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.


Learning Outcomes: Upon completion of this two-semester series, students should master concepts and theories of single and multi variable calculus, including: sets, real number system, formal definition of limits of sequences, Cauchy sequences, epsilon-delta definition of limits of functions, continuous functions, differentiation, mean value theorems, Taylor’s theorem, Riemann integrals, fundamental theorems of calculus, infinite series, sequences and series of functions, linear transformation and differentiation of multi-variable functions, inverse and implicit function theorems, vector calculus, and Green’s, Stokes’, and divergence theorems.

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. Homework. Counts for 50%. Students will have an opportunity to rewrite homework answers. Students can work together on homework, but each student should write-up their own answers. There will be a heavy emphasis on learning to write correct proofs.

2. Take-home exam. Counts for 20%. Must be done individually, no rewrites.
3. Two exams in class during the semester and the final. All equally weighted. Exams count for 30%.

Exams will be announced well in advance.

**Final Exam**: The final exam is on Saturday, May 8, from 7:30 a.m. to 10:00 a.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 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. You must notify me at the beginning of the session of any scheduled class days on which you will be absent for a religious holy day. See [http://www.depts.ttu.edu/officialpublications/catalog/_AcademicsRegulations.php](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](http://www.depts.ttu.edu/officialpublications/catalog/_AcademicsRegulations).
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.

For more information, see http://www.depts.ttu.edu/officialpublications/catalog/AcademicsRegulations.php