Math 4250 Syllabus – Fall 2010

THEORY OF CALCULUS

Instructor Information

Instructor: Dr. Wandi Ding  
Office: KOM 203G, Phone: 615-494-8936  
E-mail: wding@mtsu.edu, Web page: http://www.mtsu.edu/~wding  
Office Hours: MWF 9:00-10:00am, 2:00-3:00pm or by appointment

Course Information

Class Schedule: MW 4:10-5:35pm in KOM 221  
Prerequisites: MATH 3110 and 3460.  

Content: Three credits. Theoretical development of limits, continuity, differentiation, and integration in one dimension.  

Objectives: Exposure to Theory of Calculus is to bridge the gap between the intuitive calculus normally offered at the undergraduate level and the sophisticated analysis courses the students encounter at the senior or first year graduate level. After your successful completion of this course, you should be able to develop:  

- a rigorous foundation for the basic topics of analysis;  
- the less tangible acquisition of an accurate intuitive feeling for analysis;  
- the ability to present concise mathematical proofs orally and in writing.  

Requirements: In general, you are expected to  

1. attend class lectures;  
2. come to class prepared (this includes completing homework in a timely manner and bringing your textbook);  
3. read the textbook and the lecture notes thoroughly and solve the assigned problems;
4. ask question in class when you are unsure of any concept or unclear on any assigned problem;

5. come to my office for additional assistance as necessary;

6. take all exams on the day they are scheduled.

**Grading Policy:**

Homework: 30%
Midterm: 30%
Final Exam: 40%

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

**Final Exam:** Monday, December 13, 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 Fall 2010 Registration Guide. The last day to drop this course without a grade is September 10. The last day to drop this course with a "W" is October 15. A grade of “I” will be given only in accordance with University Policy.

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**

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, or I in this class may negatively impact TELS eligibility. Dropping a class after 14 days may also impact eligibility; if you withdraw from 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 a bachelor degree is earned. For additional Lottery rules, please refer to your Lottery Statement of Understanding form, review lottery requirements on the web at
http://scholarships.web.mtsu.edu/telsconteligibility.htm, or contact the Financial Aid Office at 898-2830.

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.