

# Analysis I – Math 3345

## Syllabus for Fall 2009

### *Course Information*

**Class Meets:** *TuTh 2:00-3:15 in RBN 4024*

**Instructor:** *Sheldon Davis*  
4002 RBN  
903-565-5839  
*sdavis@uttyler.edu*

**Office Hours:** 9:00-9:50 daily or by appointment.

**Course Description:** We will begin the study of Analysis. That is, we will begin the study of the large subfield of mathematics that develops from calculus.

**Text:** *The Elements of Real Analysis, 2<sup>nd</sup> Edition*, by R. G. Bartle ISBN 0-471-05464-X

**Credit hours:** 3 hours

**Course Prerequisites:** Math 3425 and Math 2414

**Student Learning Outcomes:** Upon completion of this course, students should be able to do the following:

- Write complete, correct and coherent proofs (critical thinking & communication)
- Understand and use abstract mathematical concepts (critical thinking)
- Discuss properties of functions including continuity, differentiation, integration
- Discuss properties of subspaces of Euclidean space including completeness, countability, compactness, and connectedness

### *Course Timeline*

**Important Dates:**

September 7: Labor Day – no class  
October 30: Last day to drop a course with a W  
November 25-28: Thanksgiving Break – no class  
Tuesday, December 15, 2:00 pm – 4:00 pm: Final Exam

### *Course Evaluation*

Weekly homework will count one-third, the midterm (around the end of October) will count one-third, and the final exam will count one-third.

The scale will be no more harsh than 85%=A, 70%=B, 55%=C, 40%=D.

## ***University Policies***

### **ADA Compliance:**

If you have a disability, including a learning disability, for which you request disability support services/accommodation(s), please contact Ida MacDonald in the Disability Support Services office so that the appropriate arrangements may be made. In accordance with federal law, a student requesting disability support services/accommodation(s) must provide documentation of his/her disability to the Disability Support Services counselor. For more information, call or visit the Student Services Center located in the University Center, Room 282. The telephone number is 566-7079 (TDD 565-5579). Additional information may also be obtained at the following UT Tyler Web address: <http://www.uttyler.edu/disabilityservices>.

### **Social Security Statement:**

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number.

### **Note Regarding Student Absence Due to Religious Observance:**

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor by the second class meeting of such absences.

### **Grade Replacement:**

If you are repeating this course for a grade replacement, you must file an intent to receive grade forgiveness with the registrar by the 12<sup>th</sup> day of class. Failure to file an intent to use grade forgiveness will result in both the original and repeated grade being used to calculate your overall grade point average. A student will receive grade forgiveness (grade replacement) for only three (undergraduate student) or two (graduate student) course repeats during his/her career at UT Tyler. (2008-2010 Catalog, p. 26)