**Syllabus of Math3320: Intro Real Analysis I**

4 credit hours, Fall 2013

Instructor: Dr. Taixi Xu, Office D-122, email: [txu@spsu.edu](mailto:txu@spsu.edu)

Meetings: 10:00am – 10:50am MTRF in D-220

Office Hours: 2:00pm – 3:15pm MTRF.  
 If you would like to meet me other times, we can make an appointment by   
 email.

Text Book: Analysis with an Introduction to Proof by Steven R. Lay, 5th edition,   
 Pearson, Jan. 2013. ISBN-10: 032174747X   
 ISBN-13: 978-0321747471

Learning Upon completing this course students should be able to:  
Outcomes: 1. Understand the axiomatic description of the field of real numbers   
 and prove theorems from the given set of axioms.  
 2. Apply the topological structure of the real line in constructing   
 mathematically rigorous proofs.  
 3. Use a rigorous approach in applying limits to problems on limits of   
 sequences and functions.

Evaluation: There will be three tests worth 100 points each, and a comprehensive final  
exam worth 150 points. Homework will be worth a total of 100 points. The lowest test score will be dropped. 50 points will be reserved for class participation. The grades may be curved to a normal distribution if necessary at the end of the semester.

Grading: Tests: 200 points 90% - 100% Grade A  
Homework: 100 points 80% - 89% Grade B  
Class Participation: 50 points 70% - 79% Grade C  
Final Exam: 150 points 60% - 99% Grade D  
Total: 500 points Below 60% Grade F

Schedule: Exam 1 – Tue. Sep. 17  
Exam 2 – Tue. Oct. 22  
Exam 3 – Mon. Nov. 25  
Final Exam: TBA

Makeups: Make-up exams will only be given at the discretion of the instructor, and   
with a valid excuse for the absence. You must contact the instructor by email before the exam or quiz if you need to arrange a make-up.

Homework: Homework will be assigned regularly and should be done on time. Some of them will be discussed during the next class. Remember that you cannot learn this subject without doing the homework.

Attendance: Regular attendance is essential. You are strongly recommended to attend every class. A signup sheet will be passing around to keep track of attendance.

Cell Phones: Please turn off all cell phones before class begins. Except in the case of an emergency, cell phone use, including texting, is not permitted in this class.

Honor Code: SPSU has an Honor Code and a new procedure relating to when academic misconduct is alleged. All students should be aware of them. Information about the Honor Code and the misconduct procedure may be found at <http://spsu.edu/honorcode/>

Disability Students with disabilities who believe that they may need   
Statement: accommodations in this class are encouraged to contact the counselor   
 working with disabilities at (678)915-7226 as soon as possible to better   
 insure that such accommodations are implemented in a timely fashion.

Important Wed. Aug. 14 First Day of Class  
Dates: Mon. Aug. 19 End of Drop/Add  
 Mon. Sep. 2 Labor Day Holiday  
 Thur. Oct. 3 Withdrawal Day  
 Wed. Nov. 27 – Fri. Nov. 29 Thanksgiving Holiday  
 Mon. Dec. 2 Last Day of Class  
 Wed. Dec. 4 - Tue. Dec. 10 Final Exams