

Course Syllabus Math 3335-001, Analysis I Spring 2015

Time: TuTh 5:30 - 6:50 PM, Room PKH 109

Instructor: Dr. Liao, 447 PKH, 817 272 2647; liao@uta.edu

Office Hours: Mon 4:30 - 5:20pm, Tu Th: 4:30 - 5:20pm

Textbook: *Understanding Analysis*, by Abbott (Springer)

Grading Scale: 90-100 A; 80-89 B; 70-79 C; 60-69 D; 0-59 F

Grade Components: There will be three tests and a comprehensive final exam.

A test of the lowest score is dropped. Each remaining test is 25%; the final is 30%. Homework is 20%.

Examination Dates:

Test 1: Th., 02/12, 2015; Test 2: Th., 03/26, 2015;

Test 3: Th., 04/23, 2015

Final Exam: Tu., May 12, 2015, 5:30 - 8 pm

Course Description: In this course we will be studying Real numbers, the Completeness Property, the Supremum Property, Sequences and series, Limits of functions, Continuous functions, and uniform continuity, etc.

Expectations: You are expected to thoroughly read the appropriate sections in the textbook, understand all definitions, theorems, and relevant examples in the book and in the lectures. You are expected to work out all homework problems assigned. You will be expected to continue your development of rigorous proof skills. I expect that you spend at least 9 hours each week on Math 3335 outside the classroom.

Homework: Discussing about homework problems is permitted. Writing up solutions separately is demanded and required.

Americans with Disabilities Act: The University of Texas at Arlington is committed to both the spirit and letter of federal equal opportunity legislation. Students in need should **inform faculty by the census date, and provide authorized documentation one week prior to tests, quizzes and the final exam.**

Academic Dishonesty:

Academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with the university's regulations and procedures.

Important Dates:

Drop date: Last day to drop classes is Apr. 03

Last date of classes: May 08

HW Assignments:

Section 1.2: 1, 2, 4, 6, 8; 1.3: 1, 3, 5, 6; 1.4: 2, 3, 5, 8, 11.

Section 2.2: 1, 2, 4, 5, 7; 2.3: 2, 4, 5, 7, 10; 2.4: 1, 2, 4, 5; 2.5: 3, 5; 2.6: 1, 3, 4, 5; 2.7: 1, 3, 4, 6, 9.

Section 3.2: 2, 3, 5, 7; 3.3: 1, 4, 5, 6; 3.4: 1, 3, 4, 5, 7.

Section 4.2: 1, 3, 5, 7; 4.3: 1, 3, 5, 7; 4.4: 1, 2, 4, 6.