

The University of Texas - Pan American  
**MATH 6353.03 Analysis II- Spring 2011**

Name of Instructor:--- **Dr. Kenichi Maruno**  
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**Office Hours:**

MTW 10:20am-10:30am, 11:40am-12:00pm TR 5:50pm-7:00pm (at Office)  
M 12:00pm-1:00pm (at MathLab2) or by appointments

Course#: **MATH 6353.03 Analysis II** (TR 7:10pm-8:25pm) *MAGC1.208*

**Book Title:** An Introduction to Lebesgue Integration and Fourier Series (Dover)  
by Haward J. Wilcox and David L. Myers (ISBN: 9780486682938)

**Prerequisite:** MATH 6352 Analysis I

**COURSE DISCRIPTION:**

The purpose of this course is to present advanced topics in analysis. Topics may be chosen from (but not restricted to) normed linear spaces, Hilbert spaces, elementary spectral theory, complex analysis, measure and integration theory.

**STUDENT LEARNING OUTCOMES:**

After successfully completing this course you will be able to:

1. Carefully state and be able to apply the major definitions and theorems of modern analysis.
2. Understand the definitions, axioms, and major theorems underlying the terms infinite series of functions, measurable sets, Lebesgue measure, measurable functions, the Lebesgue integral, normed linear spaces, inner product spaces, and  $L_p$  function spaces.
3. Be able to apply the concepts of infinite series of functions, Lebesgue integral, and  $L_p$  spaces to solve problems in which their use is fundamental to obtaining and understanding the solution.
4. Understand what constitutes a valid proof of results in analysis and create such proofs.
5. Be able to write mathematics in a precise, effective, and understandable way.

• **Attendance is required**

• Any student who accumulates the equivalent of **four (4) hours** of absences, **excused or unexcused**, will be withdrawn from the class with the grade "F"

• **Three (3) tardies** will count as **one (1) absence**. A tardy is defined as entering class after the starting time OR leaving the class early. Time lost from a **TEST** due to tardiness will not be made up.

- There will be **NO MAKE-UP EXAMS** given except emergency.
- **Students** are responsible for all reading material.
- **Students** are expected to attend all classes regularly. If you miss any meeting, it is the **Student's** responsibility to get class notes and class information from another student.

### **ATTENDANCE:**

It is your responsibility to sign the attendance sheet at each class meeting. This is the official record of your attendance. Attendance is mandatory and is taken daily; arriving 30 minutes late is considered

an absence. If four or more absences have accumulated, the instructor has the right to drop the student from class in accordance with policies set by the University of Texas-Pan American.

### **CODE OF CONDUCT:**

Since every student is entitled to full participation in class without interruption, all students are expected to be in class and prepared to begin on time. All pagers, wireless phones or other devices that make noise must be turned off when you enter the classroom. Disruption of class, whether by latecomers, noisy devices, eating in class or other inconsiderate behavior, will not be tolerated. Students who violate these rules will be asked to leave the classroom and will not be allowed to return until they have spoken privately with the instructor.

### **HOMEWORK ASSIGNMENTS:**

Exercises will be assigned after each class meeting. It is your responsibility to ask questions on those problems that you do not understand. This should be done during the first 10 minutes of class or during my office hours.

### **TESTS:**

You will be expected to take all 2 in-class tests. Only in the event of an unavoidable emergency will a make-up test be considered. Make-up exams will be different from the original.

**FINAL EXAM:** All students must take a comprehensive final exam. The final exam date and time will be announced later.

### **GRADING POLICY:**

In-class test 1:	25 %
In-class test 2:	25%
Project:	15%
Homework:	10%
Final exam:	25%
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Total:	100%

### **APPROXIMATE SCALE:**

[85%--100%] A    [70%-84%) B    [55%--69%) C    Under 55% F

## **Disabilities:**

If you have a documented disability which will make it difficult for you to carry out the work as I have outlined and/or if you need special accommodations/assistance due to a disability, please contact the Office of Services for Persons with Disabilities (OSPD), Emilia Ramirez-Schunior Hall, Room 1.101 immediately, or the Associate Director at MAUREEN@UTPA.EDU. 665-7005. *Appropriate arrangements/accommodations can be arranged.*

## **Important Dates**

Tuesday, January 18: First day of classes.

Wednesday, February 2: Twelfth class day, Census date. Courses dropped by this date do not count toward six course drop limit.

Wednesday, February 16: Last day to change course to non-credit.

**Tuesday, February 22: In-class test 1 (Tentative)**

Monday-Saturday, March 14-19: Spring Break (no classes)

**Tuesday, April 5: In-class test 2 (Tentative)**

Friday, April 8: Last day to drop courses or withdraw from the University with a grade of "DR" or "W" recorded. After this date student remains enrolled in course(s) and receives whatever letter grade(s) he/she earns.

Friday-Saturday, April 22-23: Easter Holiday (no classes)

**Tuesday, April 26 & Thursday, April 28: Project presentation (Tentative)**

Tuesday, May 3: Last day of class

Thursday-Friday, May 05-06: Study Days, no classes or final examinations permitted.