Prerequisites: Math 3243 or consent of instructor

Instructor: Dr. Kwang Shin

Office Hours: MW: 12pm - 1pm, 1:55pm – 3:25pm, and 4:55pm – 5:25 pm;
               F: 12pm – 3pm, or by appointment

Office: 328 Boyd  Phone: 678-839-4138

E-mail: kshin@westga.edu through your campus e-mail (myUWG).

Course Webpage: http://www.westga.edu/~kshin/4253

Course Description: An introduction to measure theory and integration.


Learning Outcomes:
1. The student will be able to understand the concept of cardinality and to apply it to various subsets of the set of all real numbers.
2. The student will be able to use basic set operations.
3. The student will be able to understand outer and inner measures.
4. The student will be able to understand measurable sets and measurable functions.
5. The student will be able to understand the Lebesgue integration and its properties.
6. The student will be able to understand convergence theorems of Lebesgue integrals.


Final Exam: Monday, Dec 7, 11:00 am - 1:00 pm.

The final exam will be cumulative.

Homework: Homework will be assigned and graded.
**Grade Scale:** 3 midterm exams 300 points (100 points each)  
**Final** 200 points  
**Homework** 200 points  

Total 700 points

A: 630 - 700, B: 560 - 629, C: 490 - 559, D: 385 - 489, F: 0 - 384

**Attendance:** Attendance is expected and required. You are responsible for all material covered in class and all announcements made.

**Make-up:** Make-up hour exams will be granted for official University activities if the student notifies the instructor in advance. There will be no make-up final except when a conflict with other finals occurs. If a conflict occurs to you, please inform the instructor at least two weeks in advance.

**Academic Honesty:** Academic honesty is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards academic dishonesty as an extremely serious matter, with serious consequences.

In this class, when it happens, the corresponding quiz or exam will receive 0 point and the person's final letter grade will be lowered by one level.