Math 315 Real Number System, Fall 2019

Basic Info:
Meeting Times/Locations
- Section 0001: MWF   Roop Hall 129,   11:15-12:05

Instructor: Dr. Joshua Ducey
Email: duceyje@jmu.edu
Website: `http://educ.jmu.edu/~duceyje`
Office Location: Roop 339
Office Hours:

- Monday   9:05-9:55
- Wednesday   10:10–11:00
- Friday   12:20-1:10
- By appointment

Book: Foundations of Analysis by Landau, and other provided materials.

Course Content:
A development of the real number system through a systematic approach to the natural numbers, integers, rationals and irrationals.

Homework:
I will assign homework frequently. Anything else I grade you on that is not a test will be part of your homework grade (quizzes, for example).

Board Problems:
I will sometimes ask a student to solve a problem in front of the class. The student is chosen randomly but the problem is given out ahead of time. These problems are listed in the homework list on our website. Your preparation and performance on these problems can influence your homework grade. I will not be impressed with you figuring out the problems 'on the fly', nor will I be impressed if you put the class to sleep. Your grade is based on both mathematical correctness and the clarity/style with which you present your problem and solution.

Tests:
There will be three exams this semester: two in-class tests and a cumulative final exam.

Project:
There will be a "group project," including presentations to the class

near the end of the semester. Details will be announced in class.

Getting Help:
You are encouraged to work on homework with your classmates. However, anything that you turn in to me must be written up independently and in your own words. My office hours are fixed times when I will be in my office to help you, but you can also make an appointment to see me at a different time (just email me).

Evaluation:
Homework: 20%
Tests: 40%
Project: 10%
Board Problems: 5%
Cumulative Final Exam: 25%

Grade Scale:
$[90 - 100]$ A- to A
$[80 - 90)$ B- to B+
$[70 - 80)$ C- to C+
$[60 - 70)$ D- to D+
$[0 - 60)$ F

Final Exam Time:
- Section 0001: Wednesday 12/11/19 10:30-12:30

General University Policy: www.jmu.edu/syllabus

MATH 315. Real Number System. 3 credits. A development of the real number system through a systematic approach to the natural numbers, integers, rationals and irrationals. *Prerequisite: MATH 245 or consent of the instructor.*