

Hon 556 Fall 2017

Instructor:

Gerard Buskes, Hume Hall 105, 915-7425, email: mmbuskes@olemiss.edu.

Time and Location:

MWF 12:00 - 12:50, Hume 201.

Office Hours:

MW 10:00-10:50 AM

Coursework Materials:

Spivak's Calculus book and Calculus II selected topics by Goldberg.

Goals

Much of the course is connecting the skills that you have learned in an introduction to mathematics course like Math 305 towards a solid foundation under your calculus knowledge. This process started with Math 555 and will continue in Math 556. Important for this class is not only that you understand all the material but also that you become independent in writing calculus proofs. The three main goals of the class: understand the inner workings of calculus, be able to write proofs in calculus, and start to become an independent thinker so that you can apply this new knowledge to calculus applications and more complicated calculations as well. Thus an essential component will also be a project to be completed with a group and to be presented to the rest of the class

Grading:

The writing assignments will count towards the grade as follows

Two Midterms	50%
Homework, Class participation	10%
Final Exam	25%
Final Paper	15%

90-100 A
80-89 B
70-79 C
60-69 D
<60 F

Important Dates:

March 3, First Midterm (tentative)
April 13 Second Midterm (tentative)

Attendance Policy

Students are entitled to three absences in MWF classes. Any additional absences will lower the grade.

Attendance roll will be taken at each class. Late arrivals will count as absent after the roll has been read.

Tentative schedule:

Chapter 22, 2 to 3 weeks.

Chapter 23, 2 to 3 weeks,

Chapter 24, 2 weeks

Metric spaces, 3 weeks

Preparation for paper: Fourier Series, Laplace transform and such, 2 weeks.