Schedule: MW 4:30 – 5:45 p.m. in ILB 465

Instructor: Dr. Dan Silver ● Office: ILB 303 ● Phone: 460-6264 ext. 6757
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Office hours: MW 1 – 4 or by appointment

Course description: This is the second of a two-course sequence designed to provide students with the theoretical context of concepts encountered in MA 125 through MA 227. Topics covered include integration of functions of one variable, pointwise and uniform convergence, integration and differentiation of series, differentiable mappings of several variables, chain rule, product rule and gradients, Mean Value Theorem, Taylor’s Theorem, Inverse Function Theorem, Implicit Function Theorem.

Objectives: Students should finish this course with a deep understanding of the fundamental concepts of analysis and a firm foundation for more advanced work in this field. They should become skilled at understanding definitions and statements of theorems, formulating conjectures and analyzing them critically, writing clear proofs and constructing counterexamples.

General Ed Requirement: The course fulfills the general education competency requirement for quantitative reasoning, defined by some as the ability to systematically analyze quantitative concepts, evidence, processes, and outcomes to reach a rational conclusion (see Undergraduate and Graduate Bulletin).


Attendance: You are expected to attend class regularly and participate in discussions. If you are unable to attend, you must notify me, preferably in advance. You are responsible for finding out what you missed on days when you are unable to attend.

Homework and quizzes: Quizzes and/or graded homework assignments will be given every week. On Monday I will announce which assigned problems are to be turned on Wednesday. You may discuss questions with each other, but you must not work together on solutions or consult outside sources for any answers. If you are having trouble with any problem, I encourage you to talk with me.

Exams: There will be two in-class exams. Dates will be announced at least one week in advance. The final exam is on Monday, May 7, 6 – 8 p.m. If you are unable to attend an exam you should contact me promptly: before the exam if possible, and otherwise, before the next class. A compelling reason for absence will entitle you to a make-up exam.

Final Grade: Course work will be weighted as follows: Quizzes and graded homework make up 40% of the total grade, in-class exams 15% each, and the final exam 30%.

Changes: The above dates and requirements may be modified as circumstances dictate, with adequate written notification to the students.

Academic Conduct and Disruption Policies: The University of South Alabamas policies regarding academic conduct and disruption are published annually in The Lowdown.

Disabilities: If you have a specific disability that qualifies you for academic accommodations, please notify the instructor/professor and provide certification from the Office of Special Student Services. The Office of Special Student Services is located in Room 270 of the Student Center (460-7212).