

Schedule: TR 9:30–10:45 AM and W 9:05–9:55 AM in ILB 465

Instructor: Prof. Daniel Silver • Office: ILB 303 • Phone: 460-6264 extension 6757

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Class Web Page: www.southalabama.edu/mathstat/personal_pages/silver/

Office hours: TR 11:00–12:00 or by appointment.

Course description: A continuation of MA 125. The course includes techniques of symbolic and numerical integration; applications of the definite integral to geometry, physics, economics, and probability; improper integrals; parametric equations; sequences and series; Taylor polynomials and Taylor series.

Prerequisite: A grade of C or better in Calculus I (MA 125, or an equivalent course).

Text: *Calculus: Early Transcendentals* by Jon Rogawski, W. H. Freeman, New York, 1st edition (2008). ISBN-13: 978-1-4292-1073-7. The course begins with a brief review of the definition of the integral and the Fundamental Theorem of Calculus, then covers additional material from Chapter 5 and most of Chapters 6, 7, 8, 10 and 11.

Objectives: The course is designed to provide depth of understanding of the underlying concepts and effective use of these ideas in applications. The course will further develop students' skills in mathematical reasoning, problem-solving, and expressing mathematical ideas clearly.

Attendance: It is your responsibility to sign the attendance sheet. **More than two unexcused absences will lower your final grade by a letter.**

Homework: Homework will be assigned but not collected. You are responsible for checking your own work. However, you may ask me to read your work. Complete all assignments promptly and carefully: this is essential to learning the material and doing well on quizzes and exams.

Quizzes: There will be at least eight 20-point quizzes, generally given on Thursdays. Your two lowest quiz grades (including missed quizzes) will be dropped. **There will be no make-up quizzes.** If you have legitimate reasons for missing more than two quizzes, please see me.

Remedial Assignments: If your work on a quiz demonstrates a weakness in some area of precalculus, then I might attach a sheet containing a few relevant problems. **You are required to return complete and carefully written answers to these questions by the next class. Failure to do so will result in a grade of zero for the quiz.**

Exams: There will be two in-class exams, tentatively scheduled for February 18 and April 8. **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. The final exam is on Tuesday, May 6, from 10:30 AM until 12:30 PM.

Grading policy: In determining the final grade, course work will be weighted as follows: Quizzes 28%, in-class exams 40%, final exam 32%. Attendance and class participation will be considered in raising borderline letter grades.

Changes: The policies and requirements may be modified as circumstances dictate. Such changes will be provided to the students in class and in writing.

Tutoring lab: The department offers a tutoring lab to all students taking mathematics and statistics classes. There is no lab fee. Please check the bulletin board outside ILB 325 for the schedule. The lab is in ILB 456.

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