

MATH 1634
Calculus I
Summer Session II 2018

Instructor: Dr Scott Gordon

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Office Hours: M 10:00–12:00, TR 10:00–11:00, or by appointment

Time and Location: M 12:00–1:40 (Boyd 307), TR 11:00–1:30 (Boyd 302)

Textbook: *Calculus, Early Transcendentals, 7th Ed.*, by James Stewart. We will cover Chapters 2–5.

Course Description: Limits and continuity, rates of change, the derivative, techniques of differentiation, max-min problems, integration, the Fundamental Theorem of Calculus.

Homework Exercises: Problems assigned after each lesson will be divided into two categories: exercises and turn-in problems. Exercises will not be graded and are designed to help you understand the important concepts and prepare for the tests.

Turn-in problems: There will be approximately 200 points worth of turn-in problems assigned during the semester. Your work should include a clear and complete explanation of how you solved the problem and (in accordance with university's honor code) cite any outside sources. If a problem is turned in late, 50% of its point value will be deducted from your grade for each day past the due date.

Math Tutoring Center: The Math Tutoring Center (205 Boyd) is an excellent resource for help with this class. The tutoring center hours can be found on the Math Department's website under the "Students" tab.

Tests: There will be four 1-hour tests worth 80 points each.

Rescheduling Tests: If you have a valid reason for missing a test, you may be allowed to reschedule, but you must make arrangements with me *in advance*.

Final: There will be a *cumulative* final exam worth 180 points on 7/23, 12:30–2:30.

Grading: Your numerical grade will be your total points (on tests, turn-in problems, and the final) as a percentage of the total number of possible points. Your letter grade will be determined according the following grading scale: A: 88–100, B: 76–87, C: 64–75, D: 52–63, F: 0–51.

Withdrawal: 6/25 is the last day to withdraw from the course with a grade of W.

Important policies: Please carefully review the following information at the link below. It contains important material pertaining to your rights and responsibilities in this class.

http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf

Learning Outcomes: The student will be able to

1. Compute limits
2. Use the limit definition of the derivative to compute a derivative
3. Compute derivatives of polynomial, rational, exponential, logarithmic, and trigonometric functions
4. Apply rules of differentiation to compute derivatives
5. Apply calculus to related-rate problems and max-min problems
6. Interpret definite integrals in terms of areas bounded by functions
7. Compute definite and indefinite integrals using the Fundamental Theorem of Calculus