MATH 1413
Survey of Calculus
Fall 2016

Instructor: Dr. Scott Gordon, 3235 TLC (COSM Dean’s Office)
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E-mail: sgordon@westga.edu
Time and Location: MWF 11:15–12:05, Bonner Lecture Hall
Office Hours: MWF 2:00–3:30 or by appointment
Textbook/software: A MyMathLab subscription is required. The textbook, Calculus and Its Applications, 11th Ed. by Bittenger, Ellenbogen, and Surgent, is accessible through MyMathLab. Purchasing a hardcopy is optional.
Course Description: Rates of change, the derivative, techniques of differentiation, max-min problems, integration, the Fundamental Theorem of Calculus.
Homework: I will assign homework exercises after each section. These problems will not be graded, but are selected to help you prepare for the quizzes and tests. I will allow some time during class to discuss the problems and I encourage you to use my office hours if you have any questions about them.
Tests: There will be four one-hour, in-class tests worth 80 points each. See schedule below for dates.
Quizzes: There will be nine 20-minute quizzes (dates below) worth 20 points each. Quizzes will be administered online through MyMathLab.
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.
Math Tutoring Center: The Math Tutoring Center (205 Boyd) is an excellent resource for help with this class. This semester, its hours are 9am–8pm M-W, 9am–7pm Th, 9am–3pm F.
Final: There will be a cumulative, in-class final exam worth 160 points on 12/9 at 11am.
Grading: Your numerical grade will be your total points (on tests, quizzes, 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: September 30 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

Testing Schedule

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<th>Quiz</th>
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Learning Outcomes: The student will be able to
1. Compute and interpret average and instantaneous rates of change, both algebraically and graphically.
2. Use the limit definition of the derivative to compute derivatives
3. Apply rules of differentiation to compute derivatives
4. Use derivatives in graph-sketching
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