

**University of West Georgia**  
**DEPARTMENT OF MATHEMATICS**  
**CALCULUS 1**  
**MATH 1634 – Sec 91 – 4 Credit Hours**

Instructor: Mr. Robert Burnham  
Email: rburnham@westga.edu      Classroom: 131 Newnan Center  
Office: 113 Boyd Building, in Carrollton      Class time: MW 11 am – 12:15 pm, F 11 – 11:50am  
116 Newnan Center, in Newnan  
Phone:      Office Hours: MW : 9 – 10:30am, Newnan Office  
TR : 11am – 12:30pm, Carrollton Office  
Other Times by Appointment

**Prerequisite:** Math 1113 or the equivalent (with a grade of 'C' or better.)

**Required Text:** Calculus Early Transcendentals, Seventh Edition, by James Stewart, Brooks/Cole Cengage Learning, 2012.

**Additional Required Materials:** A graphing calculator.

**Optional Materials:** Student Solutions Manual, Study Guide, and CD-Rom for the above text

**Course Description:** This is the first of a three-course sequence in calculus. Topics include limits, applications of derivatives to problems in geometry and the sciences, and problems which lead to antiderivatives.

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**COURSE OUTLINE**

**Topics:**

- Limits and Derivatives (Sections 2.1 - 2.8): tangent lines, velocity, limits, continuity, asymptotes, rates of change, derivative at a point, derivative of a function, differentiability.
- Methods of Differentiation (Sections 3.1 - 3.6): constant multiples, sums and differences, powers, polynomials, exponential functions, products and quotients, trigonometric functions, composite functions, implicit differentiation, higher order derivatives, logarithms.
- Applications of Differentiation (Sections 3.7 - 3.10, 4.1 - 4.7): related rates, linear approximation, exponential growth/decay, critical points, curve sketching, maxima and minima, concavity, L'Hospital's rule, optimization problems, Newton's method.
- Integration (Sections 4.9, 5.1 - 5.5): antiderivatives, differential equations, displacement, area, the definite integral, Fundamental Theorem of Calculus, indefinite integrals, substitution method.

**EXPECTATIONS / REQUIREMENTS**

**Grade :**

Your grade will consist of four tests (12.5% each), Homework/Quizzes (25%), and a cumulative Final Exam (25%).

## **ASSESSMENT GRADING:**

**Course Grade = .25\*(Hw/Quizzes)+.125\*Test1 + .125\*Test 2 +.125\*Test 3 +.125\* Test 4+0.25\*(Final Exam)**

**When computing your Final Course Grade I will replace your lowest test grade with your Final Exam Grade, if the Final Exam Grade is higher than your lowest test grade.**

**In the event of academic dishonesty the student forfeits these benefits.**

### **Grading Scale :**

Letter Grade	A	B	C	D	F
Grading Scale	90% to 100%	80% to 89%	70% to 79%	60% to 69%	0% to 59%

**Calculator Policy:** Graphing calculators equivalent to the TI 83, 84, 85, and 86, as well as scientific calculators are allowed for use in this course. The TI-89 and other equivalent calculators will not be allowed. **The instructor reserves the right to when you are allowed to use Calculators on in class graded assignments.**

### **Homework :**

Paper Homework will be given on a regular basis but will not be taken for a grade. There will be 4 Study Guide Assignments that will be taken for a grade. Homework plays an intricate role in succeeding in any math course and acts as a means of studying mathematics. Students who do not complete homework, do not perform well on quizzes, discussions, and exams.

### **Quizzes :**

Quizzes will be based on homework assignments as well as information discussed during class. I will announce (in class) the exact date of quizzes at least one class period in advance. Expect a quiz every week or two.

### **Tests/Final:**

There will be 4 tests and a comprehensive final exam. I will announce (in class) the exact dates for each test at least one week prior to said test.

**Final Exam:** The Final Exam will be given on **Wednesday, Dec 12<sup>th</sup>, from 11am-1pm**

### **Make-up Policy:**

In the event of a student missing a Test for any reason, I will allow the final exam grade to replace that missing test grade.

**Withdrawal Policy:** The last day you can withdraw from this course is Monday **Oct 8th, 2018.**

**Attendance:** There is no attendance policy in this class. But you must come to class to success. Please do not arrive late or leave early.

**Questions about grading:** Questions about grading must be asked within one week of the graded works return.

**University Closures:** If the University is closed due to weather or for any other reason, any test, quiz, or graded assignment that may have been scheduled for that date will be administered on the next available class date. If an assignment is due that day, it will be due the next class.

**UWG EMAIL POLICY:** University of West Georgia students are provided a MyUWG e-mail account. The University considers this account to be an official means of communication between the University and the student. The purpose of the official use of the student e-mail account is to provide an effective means of communicating important university related information to UWG students in a timely manner. It is the student's responsibility to check his or her email.

**CourseDen:** Course materials will be posted on CourseDen. Please check CourseDen often for updates. You may log in to CourseDen at [www.westga.edu](http://www.westga.edu) or <http://webct.westga.edu>. If you are having problems logging into CourseDen, please go to <http://uwgonline.westga.edu/students.php> or call 678-839-6248

**Accessibility Services:**

Students with a documented disability may work with UWG Accessibility Services to receive essential services specific to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards. If you need course adaptations or accommodations because of a disability or chronic illness, or if you need to make special arrangements in case the building must be evacuated, you should notify me in writing and provide a copy of your Student Accommodations Report (SAR), which is available only from Accessibility Services. I cannot offer accommodations without timely receipt of the SAR; further, no retroactive accommodations will be given. For more information, please contact Accessibility Services.

**Math Tutoring Center (MTC):** The Math Tutoring Center is located in 205 Boyd is available for any student who needs help. No appointments are necessary for the MTC. There are computers available in the MTC so students can get help with online assignments as well as homework assignments. The MTC is scheduled to open starting the second week. The hours for the MTC this semester are:

MW: 9am-8pm

TR: 9am-7pm

F: 9am-3pm

**Center for Academic Success:** The Center for Academic Success provides services, programs, and opportunities to help all undergraduate students succeed academically. For more information, contact them: 678-839-6280 or [cas@westga.edu](mailto:cas@westga.edu)

**Student Conduct:**

Students are expected to abide by the guidelines detailed in the university catalog. Respect and courtesy are required of all students while in the classroom.

**Cell Phones/Laptops:**

You are expected to give your full, undivided attention while class is in session. Turn off or do not bring electronics that will distract you and the class. Electronic devices are not to be used during the lecture, unless permitted by the instructor.

## **COURSE POLICIES AND INFORMATION:**

### **University Policies and Academic Support**

Please carefully review the following Common Language for all university course syllabi at the link:

[http://www.westga.edu/assetsDept/vpaa/Common\\_Language\\_for\\_Course\\_Syllabi.pdf](http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf)

It contains important material pertaining to university policies and responsibilities. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support and Online Courses, please review the information found in the Common Language for Course Syllabi documentation at [http://www.westga.edu/assetsDept/vpaa/Common\\_Language\\_for\\_Course\\_Syllabi.pdf](http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf).

### **Academic Dishonesty:**

All students of the University of West Georgia are expected to follow the Honor Code as described in the student handbook (<https://www.westga.edu/administration/vpsa/assets/docs/2016-2017-student-handbook.pdf>). Any student who commits academic dishonesty will receive the following penalties.

1. For a first charge of academic dishonesty the student will receive a grade of "0" for said assignment. In the event of academic dishonesty the final exam grade will not replace your lowest test grade if it is higher. You will also forfeit your opportunity to complete a correction on a test.
2. For a second charge of academic dishonesty the student will receive a grade of "0" for the course.

Note that all incidents of academic dishonesty will be reported to the University.

### **IMPORTANT DATES:**

**First Day of Class:**

Wednesday, August 15th

**Drop Ends:**

Friday, August 17th

**Last Day to Withdrawal with W:**

Monday, October 8th

**Last Day of Class:**

Friday, December 7

**Final Exam Period:**

December 8-15 (see The Scoop for specific times)

**No classes:**

Monday, September 3<sup>rd</sup> (Labor Day)

Thursday, October 4<sup>th</sup> (Fall Break)

Friday, October 5<sup>th</sup> (Fall Break)

November 19<sup>th</sup>-23<sup>rd</sup> (Thanksgiving)

**\*\*Note\*\*** This syllabus provides a general plan for the course; deviations may be necessary