MATH 108 SECTION 002
Calculus with Business Applications
Fall 2022 (3 credits)

Instructor: Mike Coleson
Class Time/Location: 3:00 - 4:15PM Mondays and Wednesday; Innovation Hall, room 103
Office: Exploratory Hall, Math Office 4453
Office Hours: 11:00AM-1:00PM *Mondays (online) and Wednesdays or By Appointment.*
Email: MColeson@gmu.edu
Final Exam: (Wednesday Dec. 12th 1:30am- 4:15am)

Course Description: Math 108 is a calculus course focusing on the mathematical ideas underlying, business economics, life and social sciences. This course utilizes basic math and calculus to model and represent situations found in business, in sciences and every day. This course is also designed to give support with basic math skill and comprehension. Basic math skills will be integrated alongside the lesson plan and during in-class work-sessions. Mathematical language will also be a primary focus introducing collegiate mathematical vocabulary and usage in the world. Introduce and develop arithmetic foundation needed to grasp mathematical concepts and ideas within various industries.

Course Objectives:
By the end of this course, students should be able to…

- Comprehend mathematics needed to manipulate and solve equations, interpret charts and graphs, and preform basic math and calculus operations.
- Gain knowledge and familiarity in the mathematics used in business, economic and social sciences and its application and interpretation to related problems.
- Achieve confidence and fluency of mathematical language and vernacular, calculation abilities and correct application.
- Strengthen basic math skill and logical abilities to solve problems in general science fields.
- Use mathematical language and terms to describe and solve business-related mathematical problems.

Required Texts: *You must have any readings or work from these texts ready by the first date*

- "Calculus for Business, Economics, Life Sciences and Social Science" Ed. 14.
With ACCESS CODE. Author: Barnett, Zeigler and Byleen; ISBN#: 9780134668574

*-Be sure to purchase a student access code for **MyMathLab.com** in order to complete class assignments.-*

Registration Instructions:
1. *Log-on to www.MyMathLab.com and register as a student.*
2. *Sign-up for Math 108 Business Calculus Fall 2022. You will need the Course ID: **Coleson40019***
3. *Complete first assignment for online homework*

For Help with MyMathLab Access issues please contact Pearson support
https://support.pearson.com/getsupport/s/

Grading
Students Grades will be based on personal performance during course meetings and submitted material. All work submitted should be the student's genuine work. Students have *Homework assessment* and a *Quiz* every week to be submitted online through ***MyMathLab.com*** due on ***Mondays***. At the beginning of

each class is a question on recent topics for you to solve. Students must attend each class in person and participate in the class activities. Students will be required to answer questions, work on the whiteboard and submit work done in-class. The lowest quiz scores and lowest 2 homework scores will be dropped at the end of the semester. There will be a 2 **Exam** during the semester and a **Final Exam**, in-person and work to be shown on paper.

This Math course is will have in-person meetings twice a week. This alone is not enough to be successful in the course. Please be prepared to put in effort outside the class meetings, preferably 1-2 every day. Twice a week is not enough time to grasp all the topics and practice the skills needed to pass this course. I encourage students to identify study groups and support each other in their studies. The Online book offers an interactive textbook, homework and quizzes with instant grading, videos to view on specific topics and supplemental problems and practice assignments.

Grades will be averaged and hold the following weight:

Homework (MyMathLab): 20% | Quizzes: 20% | Exam 1: 20% | Exam 2: 20% | Final Exam: 20%

Grade Ranges: **A**- 100-90 **B**- 89-80 **C**- 79-70 **D**- 69-55 **F**- 54-below
(+/- for top/bottom grade range)

Classroom Conduct

Students are expected to attend class and participate in a positive manor during class. Discussions on topics other than course related material are discouraged during class and lectures. Cell phones, laptops and other entertainment technology are not permitted during class or test times. Cell phones are not to be used as a calculator, which is university wide policy.

Students with Disabilities

It is university policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities. Students are encouraged to contact Student Disability Services to discuss their individualized needs for accommodation. If you have a documented learning disability or other condition that may affect academic performance in this course you should: 1. Make sure this documentation is on file with the Office of Disability Services (SUB I, Room 2500; 993-2474, ods.gmu.edu) to determine the accommodations you will need; and 2) talk with me to discuss your accommodation needs.

Technology Requirements

This course requires the use of computer technologies in and out of class. Students must check their email and access Blackboard regularly – throughout the day. Access to online class meeting, videos, power point presentation and recordings are an important part of participation in this class. Students will not be excused from assignments due to technology issues that are not reported before the assignment deadline. Students must use their Mason email accounts to receive important University information, including messages related to this class. The instructor will only send emails to a Mason email account. See http://masonlive.gmu.edu for more information. Recording this class is not allowed without permission.

Honor Code and Academic Honesty

By choosing to take this course, you agree to uphold the George Mason University Honor Code, which is discussed at length in your other coursework. All George Mason University students have agreed to abide by the letter and the spirit of the Honor Code. All violations of the Honor Code will be reported to the Honor Committee for review. Should a student *cheat, lie, steal, or plagiarize* after this discussion of academic honesty, in keeping with the University's Honor Code, any work considered being in violation of the Code due to integrity issues will be reported to the University Honor Committee. A failing grade on any assignment resulting from an Honor Committee process will result in a failing grade for the course.