

**MATH 108-**  
**Introduction to Calculus with Business Applications**  
**Spring 2019(3 credits)**

**Instructor:** Nacir Hmidouch

**Office :** Exploratory Hall, 4<sup>th</sup> Floor, Room 4309

**OFFICE HOURS:** 8:40pm. – 9:40 pm. on Monday and Wednesday

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**TEXTBOOK:** - “Calculus for Business, Economics, Life Sciences and Social Science” Ed. 13. With ACCESS CODE. Author: Barnett, Zeigler and Byleen;. Purchase of the MyMathLab access code is optional.

**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 perform 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.

**MATERIAL:** The course will cover an assortment of material contained in the following chapters: 1 to 5.

**Grading:** The grade will consist of quizzes, three tests, and a cumulative final exam (see below for date and time). These will count towards your grade as follows: quizzes 50, tests  $100 \times 3$ , cumulative final exam 150. The sum of these grades divided by 5 will determine your grade according to the scale:

Scale: A-:90-92, A:93-96, A+:97-100; B-:80-82, B: 83-87, B+:87-89; C:70-76, C+:77-79; D:60- 69 F:0-59.

**Class tests:** The Class Tests will be scheduled as follows (although the dates may be modified later in the semester) will be held in class on the following days:

Test 1: Wed 06, March

Test 2: Wed 27, March

Test 3: Monday 22, April

**Final exam:** Wednesday, 8, May in the same room where we have our class.

### ***Classroom Conduct***

Students are expected to attend class and participate in a positive manor during class. 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.

### ***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.