MATH 108

Introductory Calculus with Business Applications

Fall 2021

Instructor: Duy Nguyen Email: dnguyet@gmu.edu

Class Location: Planetary Hall 129

Meeting Days and Time: TR - 4:30 pm - 5:45 pm

Office-Hour: TR - 6:00 pm - 7:00 pm

Office Location: Exploratory 4311

Course home: https://mymasonportal.gmu.edu

Disability Services: https://ds.gmu.edu/

Math Tutoring Center: https://science.gmu.edu/academics/departments-units/mathematical-sciences/math-tutoring/tutoring-center-hours-and

Important Dates:

Description	Dates
Last Day to drop with 100% tuition refund	Sept 7
Last Day to drop with 50% tuition refund	Sept 14
Unrestricted Withdrawal Period: 100% Tuition Liability	Sept 15 - Sept 27
Thanksgiving Recess (no classes)	Nov 24 - Nov 28
Last Day of Class	Dec 4
Reading Days	Dec 6 - Dec 7
Final Exam	**Dec 14:** 4:30 pm - 7:15 pm

See https://registrar.gmu.edu/calendars for GMU Academic Calendar.

Course Description: This course is to introduce techniques solving real-world problems. No prior experience is required.

Textbook: You need an **access code** to access the etext and MyMathLab for **Calculus *for* Business, Economics, Life Sciences, and Social Sciences** (fourteenth edition). You can either purchase the access code at the bookstore or through MyMathLab directly. You will also need **instructor's access code** (nguyen37650) to access homework, quizzes, and exams on MyMathLab.

Assignments: You will find **homeworks/quizzes** (with the due dates) on MyMathLab (www.pearsonmylabs.com). If you miss a quiz or homework by the due date, you get zero for the missed homework or the missed quiz. Though, two quizzes with lowest scores are dropped, and two homeworks with lowest scores are dropped.

Exams: There are two regular exams and the final exam. You are going to be given a study guide for each of the exam. All exams are taken in class.

Grading Scale: All of homeworks and quizzes are combined to weight 40 percent, each exam (either regular or final) is weighted 20 percent.

Computation for Letter Grades:

A	B	C	D	F
$\geq 90\%$	80% - 89%	70% - 79 %	60% - 69%	$< 60\%$

University Honor Code: See https://oai.gmu.edu/ for Academic Integrity.

One final note: I encourage you to ask questions while I lecture. If you do not understand a topic during lecture, or you think that I run over a topic too quick, please let me know. **I often give extra credits for questions which I consider important questions**.

Schedule is tentative and can be changed if needed:

Week	Dates	Topic	Assignments	Due Dates
1	08/23 - 08/27	Functions and Graphs 1.1, 1.3	Homework + Quiz (MML)	08/29
2	08/30 - 09/03	Finite/Infinite Limits 1.3, 2.1	Homework + Quiz (MML)	09/05
3	09/06 - 09/10	Polynomial/Rational Functions 1.4, 2.2	Homework + Quiz (MML)	09/12
4	09/13 - 09/17	Exponential/Logarithmic Functions 1.5, 1.6, 3.1	Homework + Quiz (MML)	09/19
5	09/20 - 09/24	Review & Exam I		**09/21**: Review **09/23**: Exam I
6	09/27 - 10/01	Rates of Change and the Derivatives 2.4, 2.5	Homework + Quiz (MML)	09/26
7	10/04 - 10/08	Exponential and Log Derivatives 2.7, 3.2	Homework + Quiz (MML)	10/10
8	10/11 - 10/15	Product, Quotient, and Chain Rules 3.3, 3.4	Homework + Quiz (MML)	10/17

Week	Dates	Topic	Assignments	Due Date
9	10/18 - 10/22	Implicit Differentiation & Applications 2.7, 3.5, 3.7	Homework + Quiz (MML)	10/24
10	10/25 - 10/29	Review & Exam II		**10/26**: Review **10/28**: Exam II
11	11/01 - 11/05	Extrema & Concavity 4.1, 4.2	Homework + Quiz (MML)	11/07
12	11/08 - 11/12	Derivatives & Graphs 4.4	Homework + Quiz (MML)	11/14
13	11/15 - 11/19	Optimization/Absolute Max/Min 4.5, 4.6	Homework + Quiz (MML)	11/21
14	11/22 - 11/26	Integration 5.1, 5.2, 5.4, 5.5, 6.2	Homework + Quiz	11/28
15	11/29 - 12/03	Final Exam Review		

Final Exam is scheduled on 12/14: 4:30 pm - 7:15 pm in class.