MATH 108

Introductory Calculus with Business Applications

Summer 2022

Instructor: Duy Nguyen (**Email**: dnguyet@gmu.edu)

Class Location: |Music/Theater Building | Room 1007

Meeting Days and Times: MTWR - 10:30 am - 12:35 pm

Office-Hour: Mondays and Thursdays: 1:00 pm - 2:00 pm

Office Location: Exploratory Hall 4309

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
Memorial Day (University Closed)	Monday, May 30
Last Day to Add (Census) / Last Day to Drop with No Tuition Liability	Wednesday, May 25
Last Day to Drop 50% Liability	Tuesday, May 31
Juneteenth Observance (University Closed)	Monday, Jun 20
Unrestricted Withdrawal Period	Wednesday, Jun 1 – Tuesday, Jun 7
Selective Withdrawal Period	Wednesday, Jun 8 – Wednesday, Jun 15
Last Day of Class	Wednesday, Jun 22
Final Exam	Thursday, 06/23:**10:30 am - 1:15 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: Calculus *for* Business, Economics, Life Sciences, and Social Sciences:**ISBN 13**: 9781323921272

Assignments: I will specify assignments frequently: All assignments are combined to weight 25% of the course grade.

Exams: There are two regular exams and the final exam: Each exam is weighted 25% of the course grade; all exams are in-class exams.

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: This is a five-week course: A fast-paced course. In a fast-paced course, it is important not to miss classes and/or assignments frequently. If you miss assignments and/or classes frequently due to jobs and/or personal reasons and you would like to speak to me, please let me know as soon as you can.

In order for this course to be useful and exciting to you, I need your help: Ask questions, many questions while I lecture. The questions which you ask during class are often on your exams. One more note: I have given many extra credits for interesting questions.

Schedule is tentative and can be changed if needed:

Week	Dates	Topic	Assignments	Due Dates
1	05/23 - 05/27	Functions and Graphs 1.1, 1.3 Finite/Infinite Limits 1.3, 2.1 Polynomial/Rational Functions 1.4, 2.2	TBD	TBD
2	05/30 - 06/03	Exponential/Logarithmic Functions 1.5, 1.6, 3.1 Rates of Change and the Derivatives 2.4, 2.5 Review & Exam I		**06/02**: Exam I
3	06/06 - 06/10	Exponential and Log Derivatives 2.7, 3.2 Product, Quotient, and Chain Rules 3.3, 3.4 Implicit Differentiation & Applications 2.7, 3.5, 3.7	TBD	TBD
4	06/13 - 06/17	Extrema & Concavity 4.1, 4.2 Derivatives & Graphs 4.4 Optimization/Absolute Max/Min 4.5, 4.6 Review & Exam II		**06/16**: Exam II
5	06/20 - 06/24	Integration 5.1, 5.2, 5.4, 5.5, 6.2		**06/23**: Final Exam