School of STEM: Department of Mathematical, Information and Computer Sciences

MTH1044—Calculus with Applications

4 Units

Spring 2025

Section 1: MWF 8:30am – 9:35am
Section 2: MWF 10:55am – 12:05pm

Rohr Science 395

Final Exam:
Section 1: Friday, 5/9, 7:30am – 10:00am
Section 2: Monday, 5/5, 10:30am – 1:00pm

INFORMATION	SPECIFICS FOR THE COURSE
Instructor title and name:	Dr. Carlson Triebold
Phone:	(619) 849-2968
Email:	ctriebol@pointloma.edu
Office location and hours:	Rohr Science 228, times posted in Canvas

PLNU Mission

To Teach ~ To Shape ~ To Send

Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service is an expression of faith. Being of Wesleyan heritage, we strive to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

General Education Mission

PLNU provides a foundational course of study in the liberal arts informed by the life, death, and resurrection of Jesus Christ. In keeping with the Wesleyan tradition, the curriculum equips students with a broad range of knowledge and skills within and across disciplines to enrich major study, lifelong learning, and vocational service as Christ-like participants in the world's diverse societies and culture.

Course Description

Differential and integral calculus of the elementary functions of one variable. Limits, continuity, derivatives, integrals and applications.

Program and Course Learning Outcomes

1. Students will be able to formulate a mathematical model from a verbal description of a problem.
2. Students will be able to solve non-routine problems using logic and quantitative techniques.
3. Students will be able to construct solutions to problems using computational techniques.

General Education Learning Outcomes

1. Students will be able to solve problems that are quantitative in nature. The Signature Assignment for assessing this GELO is: Questions on the Final Exam.

Required Texts and Recommended Study Resources

Students are responsible for having the required course textbooks prior to the first day of class.

All supplemental materials posted on this course site (including articles, book excerpts, or other documents) are provided for your personal academic use. These materials may be protected by copyright law and should not be duplicated or distributed without permission of the copyright owner.

1. Graphing calculator (TI-84+ recommended, CAS calculators are not allowed)
2. *Calculus & Its Applications*, 15th edition by Goldstein, Lay, Schneider & Asmar
3. Access to MyLab Math, available through the online access key

Assessment and Grading

Grading Distribution	Percent
Three Exams (at 13.33% each)	40
Final Exam	30
Online Homework	12.5
Written Homework	12.5
Attendance and Participation	5
Total	100

Grades will be based on the following:

- **Online Homework:** This homework is completed in MyLab Math, available through the online access key. You will have multiple attempts to complete each problem. Each section covered in class will have associated problems assigned online. Late homework will not be accepted. Your lowest two online homework scores will be dropped.
- **Written Homework:** Homework problems will be assigned regularly and posted on Canvas. Please check regularly to ensure that you are keeping up with the homework. Late homework will not be accepted. Your lowest two written homework scores will be dropped.
- **Exams and the Final Exam:** Exams and the Final Exam will include problems and questions over material assigned in the text, readings and handouts, as well as material presented in class. No exam shall be missed without a well-documented emergency beyond your control. A score of zero will be assigned for an exam that is missed without a well-documented emergency beyond your control.
- **Late work will not be accepted.** Homework assignments that are submitted late will be recorded with a score of zero. During the course, you may find that you are unable to submit homework on time due to a personal situation (for example, a personal or family illness, accident, business trip, etc.). For this reason, your lowest two online and written homework scores will be dropped. There are no exceptions to this policy, so please use your dropped assignments wisely.

Grades are based on the number of points accumulated throughout the course with the following exception. A student must pass at least one of Exam 1, Exam 2, Exam 3, or the Final Exam to pass the class. That is, a score of 60% must be achieve on one of the Exams, or else the final grade will be an F regardless of all other point totals.

Standard Grade Scale Based on Percentages

A	B	C	D	F
A [92.5-100]	B+ [87.5-90)	C+ [77.5-80)	D+ [67.5-70)	F [0-60)
A- [90-92.5)	B [82.5-87.5)	C [72.5-77.5)	D [62.5-67.5)	
	B- [80-82.5)	C- [70-72.5)	D- [60-62.5)	

Final Examination Policy

Successful completion of this class requires taking the final examination on its scheduled day. The final examination schedule is posted on the Traditional Undergraduate Records: Final Exam Schedules site. If you find yourself scheduled for three (3) or more final examinations on the same day, you are authorized to contact each professor to arrange a different time for one of those exams. However,

unless you have three (3) or more exams on the same day, no requests for alternative final examinations will be granted.

Incompletes and Late Assignments

All assignments are to be submitted/turned in by the beginning of the class session when they are due—including assignments posted in Canvas. Incompletes will only be assigned in extremely unusual circumstances.

Artificial Intelligence (AI) Policy

You are allowed to use Artificial Intelligence (AI) tools (e.g., ChatGPT, Gemini Pro 1.5, GrammarlyGo, Perplexity, etc) to generate ideas, but you are not allowed to use AI tools to generate content (text, video, audio, images) that will end up in any work submitted to be graded for this course. If you have any doubts about using AI, please gain permission from the instructor.

PLNU Academic Accommodations Policy

PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities in accordance with the Americans with Disabilities Act (ADA). Students with disabilities may request course-related accommodations by contacting the Educational Access Center (EAC), located in the Bond Academic Center (EAC@pointloma.edu or 619-849-2486). Once a student's eligibility for an accommodation has been determined, the EAC will work with the student to create an Accommodation Plan (AP) that outlines allowed accommodations. The EAC makes accommodations available to professors at the student's request.

PLNU highly recommends that students speak with their professors during the first two weeks of each semester/term about the implementation of their AP in that particular course. Accommodations are not retroactive so clarifying with the professor at the outset is one of the best ways to promote positive academic outcomes.

Students who need accommodations for a disability should contact the EAC as early as possible (i.e., ideally before the beginning of the semester) to assure appropriate accommodations can be provided. It is the student's responsibility to make the first contact with the EAC. Students cannot assume that because they had accommodations in the past, their eligibility at PLNU is automatic. All determinations at PLNU must go through the EAC process. This is to protect the privacy of students with disabilities who may not want to disclose this information and are not asking for any special accommodations.

Additional Course Information:

Additional PLNU policies and practices that apply to this course can be found at the following link: https://docs.google.com/document/d/18i1pUoY0iCfB8w7JKxVvACQW309X-JRB/edit?usp=sharing&ouid=116164865489739533893&rtpof=true&sd=true

Spring 2025　　　　　　　　　　　　　　　　　　　　　　　　　　**MTH 1044 Calendar**

	Week	Monday	Wednesday	Friday
January	1	13 Algebra Review	15 Sections 1.1 & 1.2	17 Sections 1.3 & 1.4
January	2	20 Martin Luther King Jr. Day	22 Sections 1.5 & 1.6	24 Sections 1.7 & 1.8
January	3	27 Sections 2.1 & 2.2	29 Section 2.3	31 Section 2.5
February	4	3 Section 3.1	5 Section 3.1 continued	7 Section 3.1 continued
February	5	10 Section 3.2	12 Review for Exam I	14 Exam I
February	6	17 Section 3.3	19 Sections 3.3 continued	21 Section 4.1 & 4.2
February	7	24 Sections 4.3	26 Section 4.4 & 4.5	28 Section 5.1
March	8	3 Section 5.2	5 Section 6.1	7 Section 6.2
March	9	10 Spring Break	12	14
March	10	17 Section 6.2 continued	19 Review for Exam II	21 Exam II
March	11	24 Section 6.3	26 Section 6.4	28 Section 8.1 & 8.2
March	12	31 Section 8.3	2 Section 8.4	4 Section 8.4 continued
April	13	7 Section 9.1	9 Section 9.2	11 Section 9.2 continued
April	14	14 Review for Exam III	16 Exam III	18 Easter Break
April	15	21	23 Section 11.1	25 Section 11.2
April	16	28 Financial Math	30 Review for Final Exam	2 Review for Final Exam
May	17	5 Final Exam Section 2 (MWF 10:55am): 10:30am-1:00pm	7	9 Final Exam Section 1 (MWF 8:30am): 7:30am-10:00am