



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

MTH1073—Business Calculus

3 Units

Summer 2025, Session 2

W 6:00pm – 7:45pm

Online

Final Exam: Wednesday, 7/16

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

A calculus course intended for those studying business, economics, or other related business majors. This course covers differential and integral calculus of elementary functions with an emphasis on business applications. This is a brief course and not appropriate for students majoring in science, computer science or mathematics.

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 – Brief Version*, 12th edition by Bittinger, Ellenbogen, Surgent & Kramer
3. Access to MyLab Math, available through the online access key

Assessment and Grading

Grading Distribution	Percent
Midterm Exam	30
Final Exam	40
Homework	25
Reading and Video Notes	5
Total	100

Grades will be based on the following:

- **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 homework scores will be dropped.
- **Midterm Exam and Final Exam:** The Midterm Exam 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 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 the Midterm Exam or the Final Exam to pass the class. That is, a score of 60% must be achieved 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&oid=116164865489739533893&rtpof=true&sd=true>

Summer 2025							MTH 1073 Calendar
Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
June	1	16 Assigned Reading & Videos: Sections 1.1, 1.2, and 1.3 Homework: 1.1, 1.2, and 1.3	17 Assigned Reading & Videos: Sections 1.1, 1.2, and 1.3 Homework: 1.1, 1.2, and 1.3 Assigned Reading & Videos: Sections 1.4 and 1.5 Homework: 1.4 and 1.5	18 Class on Zoom Due Reading & video notes for 1.1, 1.2, and 1.3 Assigned Reading & Videos: Sections 1.4 and 1.5 Homework: 1.4 and 1.5	19 Due Reading & video notes for 1.4 and 1.5 Homework: 1.1, 1.2, and 1.3	20 Assigned Reading & Videos: Sections 1.6 and 1.7 Homework: 1.6 and 1.7	21 Due Reading & video notes for 1.6 and 1.7 Homework: 1.4 and 1.5
	2	23 Assigned Reading & Videos: Sections 1.8 and 2.1 Homework: 1.8 and 2.1	24 Due Reading & video notes for 1.8 and 2.1 Homework: Ch. 1.6 and 1.7	25 Class on Zoom Assigned Reading & Videos: Sections 2.2 and 2.3 Homework: 2.2 and 2.3	26 Due Reading & video notes for 2.2 and 2.3 Homework: 1.8 and 2.1	27 Assigned Reading & Videos: Sections 2.4, 2.5, and 2.6 Homework: 2.4, 2.5, and 2.6	28 Due Reading & video notes for 2.4, 2.5, and 2.6 Homework: 2.2 and 2.3
	3	30	1 Due Homework: 2.4, 2.5, and 2.6	2 Class on Zoom Midterm Exam Assigned Reading & Videos: Sections 3.1 and 3.2 Homework: 3.1 and 3.2	3 Due Reading & video notes for 3.1 and 3.2	4 Independence Day	5 Assigned Reading & Videos: Sections 3.4 and 3.5 Homework: 3.4 and 3.5 Due Reading & video notes for 3.4 and 3.5 Homework: 3.1 and 3.2
July	4	7 Assigned Reading & Videos: Sections 3.6 and 3.8 Homework 3.6 and 3.8	8 Due Reading & video notes for 3.6 and 3.8 Homework: 3.4 and 3.5	9 Class on Zoom Assigned Reading & Videos: Sections 4.1 and 4.2 Homework: 4.1 and 4.2	10 Due Reading & video notes for 4.1 and 4.2 Homework 3.6 and 3.8	11 Assigned Reading & Videos: Sections 4.3 and 4.4 Homework: 4.3 and 4.4	12 Due Reading & video notes for 4.3 and 4.4 Homework: 4.1 and 4.2
	5	14	15 Due Homework: 4.3 and 4.4	16 Class on Zoom Final Exam	17	18	19