POINT 1902 LOMA
NAZARENE UNIVERSITY

Mathematics, Information, and Computer Sciences – School of STEM

MTH1064/1064L – Calculus I

4 units

Fall 2025

Rohr Science 395, Friday Lab in Rohr Science 365

Final Exam: RS395 on Monday, December 15th from 7:30 am – 10:00 am

Instructor information:	Dr. Elizabeth Holmen-Crow, Assistant Professor of Mathematics
Phone:	619-849-2634
Email:	ecrow@pointloma.edu
Office hours:	Location: Rohr Science 234 Monday: 10:45 – 11:45am and 1:00 – 2:00pm Tuesday: 9:00 – 10:15am Wednesday: 10:45 – 11:45am and 1:00 – 2:00pm Thursday: 10:30 – 11:45am Friday: 1:30 – 2:30pm on Zoom (please make an appointment!)

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

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.

GENERAL EDUCATION LEARNING OUTCOMES

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

COURSE DESCRIPTION:

MTH 1064- Calculus I

Calculus of the elementary functions of one variable. Limits, continuity, derivatives, methods of integration and applications.

Prerequisite: Mathematics 1033 (or equivalent). Corequisite: Mathematics 1064L

DEPARTMENT MISSION

The Mathematical, Information, and Computer Sciences department at Point Loma Nazarene University is committed to maintaining a curriculum that provides its students with the tools to be productive, the passion to continue learning, and Christian perspectives to provide a basis for making sound value judgments.

PROGRAM AND COURSE LEARNING OUTCOMES 1.

1. Students will be able to demonstrate facility with analytical concepts.
2. Students will be able to demonstrate facility with algebraic structures.
3. Students will be able to use technology to solve problems.
4. Students will be able to speak about their work with precision, clarity, and organization.
5. Students will collaborate effectively in teams.
6. Students will be able to identify, locate, evaluate, and effectively and responsible use and cite information for the task at hand.
7. Students will be able to gather relevant information, examine information and form a conclusion based on that information.
8. Students will be able to understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats.

REQUIRED TEXTS AND RECOMMENDED STUDY RESOURCES

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

Textbook: Calculus, 9th Edition by Stewart (ISBN: 9781337624183 for hardback, but e-Text of the same book is acceptable)

Other materials: A scientific calculator is required for classroom activities.

LomaBooks

This course is part of our course material delivery program, LomaBooks. The bookstore will provide each student with a convenient package containing all required physical materials; all digitally delivered materials will be integrated into Canvas.

You should have received an email from the bookstore confirming the list of materials that will be provided for each of your courses and asking you to select how you would like to receive any printed components (in-store pick up or home delivery). If you have not done so already, please confirm your fulfillment preference so the bookstore can prepare your materials.

For more information about LomaBooks, please go: HERE

COURSE CREDIT HOUR INFORMATION

In the interest of providing sufficient time to accomplish the stated Course Learning Outcomes, this class meets the PLNU credit hour policy for a 4-unit class delivered over 15 weeks. It is anticipated that students will spend a minimum of 37.5 participation hours per credit hour on their coursework. For this course, students will spend an estimated 150 total hours meeting the course learning outcomes.

ASSESMENT AND GRADING

The grade components are written homework, labs, midterm exams, and the final examination. The grading distribution can be found below.

GRADING SCALE

- In order to pass the class, you must receive at least 60% on one of the midterms or on the final exam**.**
- Grades are based on points accumulated throughout the course. Approximate minimal percentages required to obtain a given grade are:

Grading Scale in Percentages				
	A	B	C	D
+		(87.5, 90]	(77.5, 80]	(67.5, 70]
	(92.5, 100]	(82.5, 87.5]	(72.5, 77.5]	(62.5, 67.5]
−	(90, 92.5]	(80, 82.5]	(70, 72.5]	[60, 62.5]

GRADING DISTRIBUTION

Grade Distribution	
Three Midterms Exams (15% each)	45%
Final Exam (Cumulative)	25%
Labs	10%
Homework	20%
Total	**100%**

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.

Graded Components

- **Labs:** Attendance at each class is required. In these sessions (Fridays), we will work on homework, activities and quizzes. Some labs may be graded, and some will receive full credit just for attempting.
- **Homework:** The homework is designed to allow you to grasp the concepts of Calculus; it is not an end in itself. The homework problems will be taken from the Textbook and handwritten on paper. There may also be other activities that are completed as homework. Each homework set will be due at the beginning of class on Wednesdays. Please see the schedule below. Late homework will not be accepted without prior consent or a well-documented emergency beyond your control. Written homework that is submitted late without prior consent will be recorded with a score of zero. The lowest two homework scores will be dropped prior to computing the final course grade.
- **Examinations and the Final Examination:** Examinations and the Final Examination will include problems and questions over material assigned in the text, readings and handouts, as well as material presented in class. No examination shall be missed without prior consent or a well-

documented emergency beyond your control. A score of zero will be assigned for an examination that is missed without prior consent or a well-documented emergency beyond your control. The examination schedule is included in the daily schedule. This instructor does not intend to accept excuses such as poor communication with parents, benefactors, surf team sponsors and/or travel agents.

COMMENTS ON HOMEWORK

- This is the minimum amount of homework that is required but you may need to do several odd numbered problems to make sure you get the answer in the textbook.
- Please be sure that your homework is stapled together, legible, and the problems are in order. Start each problem on a new line and do not make multiple columns of problems on the same sheet of paper.
- Homework will be scored on a combination of completeness and correctness. All work necessary to complete a problem must be shown to earn credit.
- Start working on your homework early. These problems are difficult and meant to be done a little at a time over the course of a few days.
- When doing homework, please note it is normal to not be able to do every problem correct on the first attempt. Do not be discouraged, instead seek help.

INCOMPLETE AND LATE ASSIGNMENTS

- All assignments are to be submitted/turned in by the due date and time, including assignments posted in Canvas. **Late work need not be accepted.**
- Make-up tests will be given only by prior arrangement with the instructor for reasons of documented emergency.
- **Incomplete grade:** Incompletes will only be assigned in extremely unusual circumstances. You may request a grade of I (incomplete) only if you have a passing grade and at least 70% of the course work is completed.

ARTIFICIAL INTELLIGENCE POLICY

You are allowed to use Artificial Intelligence (AI) tools (e.g., ChatGPT, Gemini Pro 1.5, Grammarly Go, 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 HONESTY POLICY

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. For all student appeals, faculty and students should follow the procedures outlined in the University Catalog. See Academic Policies for definitions of kinds of academic dishonesty and for further policy information.

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 619-849-2533). 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. Professors are able to view a student's approved accommodations through Accommodate.

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 accommodations.

PLNU ATTENDANCE AND PARTICIPATION POLICY

Regular and punctual attendance at all class sessions is considered essential to optimum academic achievement. If the student is absent for more than 10 percent of class sessions, the faculty member will issue a written warning of de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university withdrawal date or, after that date, receive an "F" grade.

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/11BgAANLOJ9tjt837d24EZ181ukM2qzHF/edit?usp=sharing&ouid=109910715651511117850&rtpof=true&sd=true

DAILY SCHEDULE

Week	Monday	Wednesday	Friday	Friday Lab	Due Soon	✓
1 9/1-5	No Class— Labor Day	Class Intro 1.1-1.2	1.2-1.3	Lab #1	HW 1	
2 9/8-12	1.4-1.5	1.5-1.6 Due: HW1	1.7 Last day to Drop	Lab #2	HW 2	
3 9/15-19	1.8	2.1-2.2 Due: HW2	2.3 Department Chapel	Lab #3	Study & HW3	
4 9/22-26	Review for Exam #1	Exam #1 Due: HW3	2.4	Lab #4		
5 9/29-10/3	2.5	2.6	2.7-2.8	Lab #5	HW4	
6 10/6-10	2.9	3.1 Due: HW4	3.2-3.3	Lab #6	HW5	
7 10/13-17	3.3-3.4	3.4-3.5 Due: HW5	3.5-3.6 Advising Chapel	Lab #7	Study & HW6	
8 10/20-24	Review for Exam #2	Exam #2 Due: HW6	No Class—Fall Break	No Lab—Fall Break		
9 10/27-31	3.7	3.8	3.9	Lab #8	HW7	
10 11/3-11/7	4.1 --------- Spiritual ---------	4.2-4.3 Due: HW7 --------- Renewal ---------	4.3-4.4 Last Day to Withdraw --------- Week ---------	Lab # 9	HW8	
11 11/10-14	4.4	4.5 Due: HW8	4.5	Lab #10	HW9	
12 11/17-21	5.1	5.2-5.3 Due: HW9	5.4-5.5	Lab #11	Study & HW10	
13 11/24-28	Exam #3 Due: HW10	No Class-- Thanksgiving	No Class-- Thanksgiving	No Lab-- Thanksgiving		
14 12/1-5	6.1-6.2	6.2-6.3	6.4-6.5	Lab #12	HW11	
15 12/8-12	6.6-6.7	6.8 Due: HW11	Review for Final	Optional Lab #13	Study & HW12	
Finals Week 12/15-19	Final Exam 7:30-10am Due: HW#12					