Point Loma Nazarene University, Spring 2025

College Algebra

Department of Mathematical, Information, and Computer Science – School of STEM

Professor: Kyle Havens	**Course:** Math 1013	**Section:** 1	**Units:** 3
Office: Rohr Science 210	**Days:** Tuesday and Thursday	**Class Time:** 11:00am-12:15pm	
Phone: (619) 849-2200	**Email:** kylehavens@pointloma.edu	**Location:** Rohr Science 295	

PLNU Mission – Teach, Shape, 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.

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.

Course Description: A review and extension of elementary algebra, solutions of linear and quadratic equations, radicals, inequalities, linear and quadratic functions, polynomial functions, exponential and logarithmic functions, conic sections, sequences and series and graphing.

Required Materials:

1. Textbook – *Intermediate Algebra*, 13th Edition by Lial, Margaret L. (ISBN: 9780134896717)
2. Graphing Calculator (TI-84+ recommended)

Office Hours: Located in Rohr Science 210. Professor Havens has open office hours at the following times:
• Mondays: 10:00-11:55am • Tuesdays & Thursdays: 12:30-2:30pm • Wednesdays & Fridays: 10:55-11:55am.

Student Learning Outcomes:

1. Students will be able to solve problems using linear equations, inequalities, graphs, and functions.
2. Students will be able to solve systems of linear equations.
3. Students will be able to solve problems using polynomials and factoring.
4. Students will be able to solve problems using logarithms.

Class Performance: Your final grade in this course is calculated by the following system. Details on next page.

30%	Final Exam	Cumulative. You must get a "D" on the final exam to pass.
35%	Exam Average	The average score of your two in-class exams
20%	Written Homework	Traditional written homework from the textbook.
15%	Class Activities	Based on completion of group activities and attendance.

Good Attendance: A student with no more than one unexcused absence is defined to have "good attendance."

Letter Grade: The letter grade you receive in this course is based on the final percentage score you earned in the previously described weighted grading system. Requests for an opportunity to improve your grade due to personal circumstances will be denied. Borderline grades may be rounded up if student has good attendance.

[92%,100%]: A	[82%,88%): B	[70%,78%): C
[90%,92%): A-	[80%,82%): B-	[68%,70%): C-
[88%,90%): B+	[78%,80%): C+	[60%,68%): D

Final Exam: The final exam is cumulative and will be held at the following time in our classroom:

Tuesday, May 6th from 10:30am to 1:00pm

Final Exam: 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.

Exams: There will be two midterm exams during the semester covering roughly four weeks of content each. See the course schedule for more information. Graphing calculators are allowed on the exam. No other notes are allowed. Contact me **before** missing an exam if you have a critical emergency. No make-up exams are allowed without prior consent. If you do not inform me that you will be missing an exam beforehand, you will get a zero on that exam. Exams are weighted equally at 35% of your total grade. If you have good attendance, I will adjust the weighted scale of the exams in your favor, 22.5% for the highest exam and 12.5% for the lowest. Practice questions will be posted on Canvas in advance of the exam designed to help you identify topics that you need to study further.

Written Homework: Written homework problems are assigned from the textbook and will be submitted to Canvas. The problems are to be done by hand and are assigned from your textbook. The due dates will be posted in Canvas, but typically you will have at least one week to complete the assignments from a chapter after it is covered in class. Each written problem set will consist of anywhere from ten to thirty questions. A random sample 5-10 questions will be graded for correctness by a student grader, and the rest will be graded for completion. Late homework is not accepted without a well-documented emergency. Please be sure that written assignments are legible and organized. You are responsible for ensuring your submissions can be viewed by the grader. If your submission is illegible or causes an error it will receive a zero. I encourage you to work together on your homework, but directly copying an online source or another student's homework is considered plagiarism and will not be tolerated. A maximum of two written homework assignments can be turned in late subject to a 10% penalty as long as they are submitted before the corresponding exam.

Class Activities: Mathematics requires active participation. Participation means asking questions, taking notes, making conjectures and checking them, providing solutions to problems, and sharing ideas with classmates. I will act as the expert facilitator during class time, with a mixture of lecture, group problem solving, use of technology, and integrated discussion. You will receive activity credit for your attendance by using the sign-in sheet. Each class we will work on a class activity directly related to the chapters of study. You are to work on them in your groups and submit them to Canvas by the last day of lecture on the subject. These may be fully graded or you may get credit for completion, depending on the activity.

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 3-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 115 estimated total hours meeting the course learning outcomes.

Artificial Intelligence 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 (math, 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.

Sources of Help: If you find yourself struggling, consider asking for help using any of the following:

1. Your Professor. If you have questions, email me, ask in class, or come to my office hours.
2. Other classmates. Form study groups and work together both in and out of class.
3. Tutoring. Available in Rohr Science through the Tutoring Center whose hours will be posted on Canvas.
4. Online resources. Accessible on Canvas, or find them yourself via YouTube, Khan Academy, etc.
5. Practice exam questions. Look at them ahead of time and use them to assess your understanding.

Additional Course Information: Additional PLNU policies and practices that apply to this course can be found at the link below. The link includes PLNU's statement on spiritual care, state authorization, copyright policy, recording notification, academic honesty policy, language and belonging, sexual misconduct and discrimination, attendance and participation policy, course modality definitions, LomaBooks, use of technology, and the Loma Writing Center.

https://docs.google.com/document/d/18i1pUoY0iCfB8w7JKxVvACQW309X-JRB/edit?usp=sharing&ouid=116164865489739533893&rtpof=true&sd=true

Course Schedule: This course syllabus and schedule are subject to change due to unforeseen circumstances.

Week of	*Tuesday*	*Thursday*	*Due Soon*	✓
1/13/2025	**Course Introduction & Ch.1:** Linear Equations and Percent	**Ch.1.3-4:** Linear Applications *Begin Class Activity Ch.1*	Obtain Course Materials Intro Quiz	
1/20/2025	**Ch1.5-6:** Inequalities, Operators *Continue Class Activity Ch.1*	**Ch1.7:** Absolute Value Ineqs *Finish Class Activity Ch.1*	Class Activity Ch.1 Written Homework Ch1.1-4	
1/27/2025	**Ch2.1-3:** 2-Var Linears and Slope *Begin Class Activity Ch.2*	**Ch2.3-5:** Inequalities & Relations *Continue Class Activity Ch.2*	Written Homework Ch1.5-7	
2/3/2025	**Ch2.5-6:** Relations and Functions *Finish Class Activity Ch.2*	**Ch3.1-2:** Systems of Equations *Begin Class Activity Ch.3*	Class Activity Ch.2 Written Homework Ch2.1-4	
2/10/2025	**Ch3.2-3:** Applications of Systems *Continue Class Activity Ch.3*	**Ch1-3:** Review *Finish Class Activity Ch.3*	Class Activity Ch.3 Written Homework Ch2.5-3.1	
2/17/2025	**Exam #1**	**Ch4.1-3:** Exponents, Polynomials *Begin Class Activity Ch.4*	Written Homework Ch3.2-3	
2/24/2025	**Ch4.4-5:** Multiplying, Graphing *Continue Class Activity Ch.4*	**Ch4.6-5.1:** Dividing and GCF *Finish Class Activity Ch.4*	Class Activity Ch.4 Written Homework Ch4.1-3	
3/3/2025	**Ch5.2-3:** Special Factoring *Continue Class Activity Ch.5*	**Ch5.4-5:** Polynomial Equations *Finish Class Activity Ch.5*	Class Activity Ch.5 Written Homework Ch4.4-5.1	
3/10/2025	*No Class* *Spring Break*			
3/17/2025	**Ch6.1-2:** Rational Functions *Start Class Activity Ch.6*	**Ch6.2-3:** Rational Operations *Continue Class Activity Ch.6*	Written Homework Ch5.2-5	
3/24/2025	**Ch6.3-4:** Rational Equations *Finish Class Activity Ch.6*	**Ch7.1-2:** Radical Expressions *Begin Class Activity Ch.7*	Class Activity Ch.6 Written Homework Ch6.1-3	
3/31/2025	**Ch7.3-4:** Circles and Distance *Continue Class Activity Ch.7*	**Ch7.5:** Multiply Rads & Review *Finish Class Activity Ch.7*	Class Activity Ch.7 Written Homework 6.4-7.2	
4/7/2025	**Exam #2**	**Ch8.1-2:** Quadratic Formula *Begin Class Activity Ch.8*	Written Homework Ch7.3-5	
4/14/2025	**Ch8.3-5:** Applications & Graphs *Continue Class Activity Ch.8*	*No Class* *Easter Break*	Written Homework Ch8.1-2	
4/21/2025	**Ch9.1-2:** Inverse & Exponentials *Begin Class Activity Ch.9*	**Ch9.3-5:** Logarithmic Functions *Continue Class Activity Ch.9*	Class Activity Ch.8 Written Homework Ch8.3-5	
4/28/2025	**Ch9.5-6:** Logarithmic Equations *Finish Class Activity Ch.9*	**Ch1-9:** Review *Emphasis on Ch8-9*	Class Activity Ch.9 Written Homework Ch9.1-4	
5/5/2025	**Final Exam** 10:30am-1:00pm	*Finals Week*	Written Homework Ch9.5-6	