

MTH 113-1 Intermediate Algebra
Class Time T&TH 3:00-4:15
Location RS 236

Instructor Dr. Catherine Crockett
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Office Hours MWF 11-12, MW 1:30- 3:00, T & TH 1:30- 2:30 or by appointment

Textbook: Intermediate Algebra 5th Edition, by Larson
Prerequisite: Math 099 or equivalent

Important Dates

Exam 1 October 14

Exam 2 November 25 (Tuesday before Thanksgiving)

Final exam December 16 4:30-7:00

Course Description:

A review and extension of elementary algebra, solution of linear and quadratic equations, radicals, inequalities, linear and quadratic functions, polynomial functions, exponential and logarithms functions and graphing.

Course Learning Outcomes:

Students will be able to solve complicated polynomial equations.
Students will be able to use graphing to solve equations.

Attendance:

Attendance is expected at each class session. In the event of an absence you are responsible for the material covered in class and the assignments given that day.

Regular and punctual attendance at all classes in which a student is registered is considered essential to optimum academic achievement. Therefore, regular attendance and participation in each course are minimal requirements to be met. There are no allowed or excused absences except as approved in writing by the Provost for specific students participating in certain university-sanctioned activities. Excused absences still count toward the 10%-20% limits, but allow students to make up work, quizzes, or tests missed as a result of a university-sanctioned activity. Activities of a unique nature, such as labs or other activities identified clearly on the syllabus, cannot be made up except in rare instances when instructors have given advanced, written approval for doing so. Whenever the number of accumulated absences in a class, for any cause, exceeds ten (10) percent of the total number of class meetings, the faculty member should send an e-mail to the student and the Vice Provost for Academic Administration (VPAA) warning of attendance jeopardy. If more than twenty (20) percent of the total number of class meetings is reported as missed, the faculty member or VPAA may initiate the student's de-enrollment from the course without further advanced notice to the student. If the date of de-enrollment is past the last date to withdraw from a class, the student will be assigned a grade of W or WF consistent with

university policy in the Grading section of the catalog. There are no refunds for courses where a de-enrollment was processed. For more details see the PLNU catalog:

http://catalog.pointloma.edu/content.php?catoid=14&navoid=1089#Class_Attendance

Class Enrollment:

It is the student's responsibility to maintain his/her class schedule. Should the need arise to drop this course (personal emergencies, poor performance, etc.), the student has the responsibility to follow through (provided the drop date meets the stated calendar deadline established by the university), not the instructor. Simply ceasing to attend this course or failing to follow through to arrange for a change of registration (drop/add) may easily result in a grade of F on the official transcript.

Academic Accommodations:

While all students are expected to meet the minimum academic standards for completion of their courses as established by the instructors, students with special needs may require academic accommodations. At Point Loma Nazarene University, students requesting academic accommodations must file documentation with the Disability Resource Center (DRC), located in the Bond Academic Center. Once the student files documentation, the Disability Resource Center contacts the student's instructors and provides written recommendations for reasonable and appropriate accommodations to meet the individual needs of the student. This policy assists the university in its commitment to full compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities (ADA) Act of 1990, and ADA Amendments Act of 2008, all of which prohibit discrimination against students with special needs and guarantees all qualified students equal access to the benefits of PLNU programs and activities. For more details see the PLNU catalog:

http://catalog.pointloma.edu/content.php?catoid=14&navoid=1089#Academic_Accommodations

Students with learning disabilities who may need accommodations should discuss options with the instructor during the first two weeks of class.

Academic Honesty:

The Point Loma Nazarene University community holds the highest standards of honesty and integrity in all aspects of university life. Any violation of the university's commitment is a serious affront to the very nature of Point Loma's mission and purpose. Violations of academic honesty include cheating, plagiarism, falsification, aiding academic dishonesty, and malicious interference. The details of PLNU's meaning of each of these words can be found in the PLNU catalog at:

http://catalog.pointloma.edu/content.php?catoid=14&navoid=1089#Academic_Honesty

A student remains responsible for the academic honesty of work submitted in PLNU courses and the consequences of academic dishonesty beyond receipt of the final grade in the class and beyond the awarding of the diploma. Ignorance of these catalog policies will not be considered a valid excuse or defense. Students may not withdraw from a course as a response to a consequence.

A student who is caught cheating on any item of work will receive a zero on that item and may receive an "F" for the semester. See the PLNU Catalog for a further explanation of the PLNU procedures for academic dishonesty

(http://catalog.pointloma.edu/content.php?catoid=14&navoid=1089#Academic_Honesty).

Final Exam: Date and Time

The final exam date and time is set by the university at the beginning of the semester and may not be changed by the instructor. Only in the case that a student is required to take three exams during the same day of finals week is an instructor authorized to change the exam date and time for that particular student.

Copyright Protected Materials

Point Loma Nazarene University, as a non-profit educational institution, is entitled by law to use materials protected by the US Copyright Act for classroom education. Any use of those materials outside the class may violate the law.

Grading: Grades for the course will be based on homework (25%), quizzes (10%), two exams (total of 35%), and a final exam (30%).

Homework (25%): Homework will be assigned every class meeting. A homework assignment is late if it is not received at the start of class on the due date. No late homework will be accepted; however the two lowest homework scores will be dropped. Please be sure that your homework is stapled together and the problems are in order. Homework will be scored on a combination of completeness and correctness. A random selection (the same for all people) of the problems will be graded on any homework assignment.

Quizzes (10%): Quizzes will be given in class throughout the semester (please see the calendar for dates). There are no make-up quizzes; however your lowest quiz score will be dropped.

Tests and Final Exam (35% and 30%): Tests 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 examination shall be missed without prior consent by me 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. I do not intend to accept excuses such as poor communication with parents, benefactors, sport team sponsors and/or travel agents.

Please note:	The Final Exam is COMPREHENSIVE. December 16, (Tuesday) at 4:30 to 7:00
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Grading Scale: Course grades will be assigned according to the following scale:

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)

Cell Phones: Turn off any cell phone, pager or things that make noise while you are in class. Also, do not text or work on other classes while in class -to do so is disrespectful to me and your classmates.

General Advice: The key to success in this class is to attend lectures regularly and do your homework. You learn mathematics by doing it yourself. You should expect to spend approximately two hours outside of class for every one hour in class working on homework and going over concepts. 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.

Sources of Help:

1. Me. If you have questions, ask me. See office hours.
2. FREE TUTORING- Math Learning Center, RS-230. Hours are posted on the door.
3. Tutoring Center in Bond.
4. Other classmates. Form study groups! Work together!

Tentative Topic Schedule. Exam dates will not change.

Week	Tuesday	Thursday
1	9/2 No Class	9/4 Introduction 1.1 The real number system 1.2 Operations with real numbers. 1.3 Properties of real numbers 1.4 Algebraic expressions
2	9/9 1.5 Constructing algebraic expressions 2.1 Linear equations Homework #1 due	9/11 2.2 Linear equations and problem solving 2.3 Business and scientific problems Quiz #1
3	9/16 2.4 Linear inequalities Homework #2 due	9/18 2.5 Absolute value equations and inequalities Quiz #2

4	9/23 3.1 The rectangular coordinate system 3.2 Graphs of Equations Homework #3 due	9/25 3.3 Slopes and graphs of linear equations 3.4 Equations of lines Quiz #3
5	9/30 3.5 Graphs of linear inequalities 3.6 Relations and functions. Homework #4 due	10/2 4.1 Systems of Equations 4.2 Linear systems in two variables Quiz #4
6	10/7 4.3 Linear Systems in three variable Homework #5 due	10/9 Review for Exam #1
7	10/14 Exam #1	10/16 5.1 Integer exponents and scientific notation 5.2 Adding and subtracting polynomials
8	10/21 5.3 Multiplying polynomials 5.4 Factoring by grouping and special forms Homework #6 due	10/23 5.4 Factoring by grouping and special forms 5.5 Factoring trinomials Quiz #5
9	10/28 5.6 Solving polynomial equations by factoring Homework #7 due	10/30 6.5 Dividing polynomials and synthetic division Quiz #6
10	11/4 7.1 Radicals and rational exponents 7.2 Simplifying radical expressions Homework #8 due	11/6 7.3 Adding and subtracting radical expressions 7.4 Multiplying and dividing radical expressions Quiz #7
11	11/11 7.5 Radical equations and applications 7.6 Complex numbers Homework #9 due	11/13 8.1 Solving quadratic equations by factoring 8.2 Completing the square Quiz #8
12	11/18 8.3 The quadratic formula 8.4 Graphs of quadratic functions Homework # 10 due	11/20 8.5 Applications of quadratic equation Review for Exam #2
13	11/25 Exam #2	11/27 No Class Thanksgiving!

14	12/2 9.1 Exponential functions 9.2 Composite and inverse functions Homework # 11 due	12/4 9.3 Logarithmic functions 9.4 Properties of logarithms Quiz #9
15	12/9 9.5 Solving exponential and logarithmic functions 9.6 Applications Homework #12 due	12/11 Review for final exam
Final Exams Week	12/16 Final Exam 4:30-7:00	12/18