

MTH 113-1 Intermediate Algebra
Class Time MWF 3:00-3:50
Location RS 236

Instructor Dr. Catherine Crockett
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Office Hours MWF 11-12, T & Th 10:45-11:45, MW 1-2 or by appointment

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

Important Dates

Exam 1	September 21	(Friday)
Exam 2	October 22	(Monday after Fall break)
Exam 3	November 19	(Monday before Thanksgiving)
Final exam	December 10	(Monday 1-3)

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 when absences are necessitated by certain university-sponsored activities and are approved in writing by the Provost. Whenever the number of accumulated absences in a class, for any cause, exceeds ten percent of the total number of class meetings, the faculty member has the option of filing a written report to the Vice Provost for Academic Administration which may result in de-enrollment, pending any resolution of the excessive absences between the faculty member and 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 (no grade). There are no refunds for courses where a de-enrollment was processed." (see catalog for full text)

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 this course as established by the instructor, students with disabilities 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 will contact the student's instructors and provide 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 disabilities and guarantees all qualified students equal access to and benefits of PLNU programs and activities. 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. Academic honesty and integrity are strong values among faculty and students alike. Any violation of the university's commitment is a serious affront to the very nature of Point Loma's mission and purpose.

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. Such acts include plagiarism, copying of class assignments, and copying or other fraudulent behavior on examinations. For more details on PLNU's policy go to: <http://www.pointloma.edu/experience/academics/catalogs/undergraduate-catalog/point-loma-education/academic-policies>

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.

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.

Grading: Grades for the course will be based on homework (30%), three exams (15% each; total of 45%), and a final exam (25%).

Homework (30%): 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.

Tests and Final Exam (15% each and 25%): 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 10, (Monday) at 1:00 to 3:00

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. Other classmates. Form study groups! Work together!

Week	Monday	Wednesday	Friday
1	8/27 First class is on Tuesday 8/28 Introduction 1.1 The real number system	8/29 1.2 – 1.3 Real numbers with operations and properties	8/31 1.4-1.5 Algebraic expressions and their construction
2	9/3 No Class	9/5 2.1 – 2.2 Linear equations and problem solving	9/7 2.3 Business and scientific problems
3	9/10 2.4 Linear Inequalities	9/12 2.5 Absolute Value equations and inequalities	9/14 3.1 -3.2 The rectangular coordinate system and graphs of equations
4	9/17 3.3 Slopes and graphs of linear equations	9/19 Review	9/21 Exam #1
5	9/24 3.4 Equations of lines	9/26 3.5 Graphs of linear inequalities	9/28 3.6 Relations and functions, graphs of functions
6	10/1 4.1 – 4.2 Systems of equations and linear systems in two variables	10/3 4.3-4.4 Linear systems in three variables and matrices and linear systems	10/5 4.5 Determinants and linear systems

7	10/8 5.1 – 5.2 Integer exponents, adding and subtracting polynomials	10/10 5.3 Multiplying polynomials	10/12 5.4-5.5 Factoring polynomials
8	10/15 5.6 Solving polynomial equations by factoring	10/17 Review	10/19 No Class Fall Break Day
9	10/22 Exam #2	10/24 6.5: Dividing polynomials and synthetic division	10/26 7.1-7.2 Radicals, rational exponent and simplifying radical expressions
10	10/29 7.3-7.4 Operations with radical expressions	10/31 7.5 Radical equations	11/2 7.6 Complex numbers
11	11/5 8.1 Solving quadratic equations by factoring	11/7 8.2 Completing the square	11/9 8.3 The quadratic formula
12	11/12 8.4 Graphs of quadratic equations	11/14 8.5 Applications of quadratic equations	11/16 Review
13	11/19 Exam #3	11/21 No Class	11/23 No Class
14	11/26 8.6 Quadratic and rational inequalities	11/28 9.1-9.2: Exponential function and composite & inverse functions	11/30 9.3-9.4 Properties of logarithms & solving exponential and logarithm equations
15	12/3 9.5 Solving exponential and logarithmic equations	12/5 9.6 Applications	12/7 Review Last day of classes
Final Exams Week	12/10 Final Exam 1-3	12/12	12/14