

MTH113 College Algebra (3 Credit Hours) TTh 2:55-4:10 RLC108

Instructor: John Cochrane, Ph.D.

Office: Science Trailer 2

Office Hours: Weekly Hours Posted in Canvas

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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. Offered every semester.

Learning Outcomes

- Students will be able to solve complicated polynomial equations.
- Students will be able to use graphing to solve equations.
- Students will be able to solve problems using polynomial, rational, exponential and logarithmic functions

Required Materials

Lial, Hornsby, and McGinnis. Intermediate Algebra. ISBN: 9780321969354

Math Placement Test: After looking at the topics for this class, if you feel you should have tested out of this test you are allowed to retake the math placement test a single time (you can take the math placement test two times in total). If you have already taken it twice, you cannot retake it again. Please see the secretary of the MICS department, *Stephanie Krahenbuhl*, if you would like to retake the test. It is recommended you schedule a time to retake the math placement test by emailing her at skrahenb@pointloma.edu rather than just walk in.

Course Format

This course will consist of regular lectures consisting of worked out examples, along with activities for you to practice the skills you are learning. Additionally there will be regular homework. This material is best learned by doing, so your active participation is necessary for your success. There will also be regular quizzes at the beginning of class to help you assess your preparation for the exams. They are based very closely on the homework, so you should be prepared if you can successfully complete the homework. **The lowest homework and quiz will be dropped.**

You must show your work on all assignments to receive credit.

Grading Policies

Grades will be computed based on your scores on the following grade components using the weights below:

Homework	25%
Exams (20% each)	40%
Final	35%

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)

Note that grades are based on the number of points accumulated throughout the course with the following exception. A student must pass at least one of Exam 1, Exam 2, or the Final Exam in order to pass the class. That is, a score of 60% must be achieved on one of the Examinations, or else the final grade will be an F regardless of all other point totals

- **Late work and missing exams.** A written assignment or computer assignment is late if it is not received at the beginning of class on the due date. Late work will not be accepted. Make-up tests (or the exam) or quizzes will be given only by arrangement with the instructor for reasons of documented emergency.

University Mission:

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.

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 is considered essential to optimum academic achievement. If the student is absent from more than 10 percent of class meetings, the faculty member can file a written report which may result in de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation. See [Attendance Policy](#) in the Undergraduate Academic Catalog.

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 standards for completion of this course as established by the instructor, students with disabilities may require academic adjustments, modifications or auxiliary aids/services. At Point Loma Nazarene University (PLNU), these students are requested to register with the Disability Resource Center (DRC), located in the Bond Academic Center. (DRC@pointloma.edu or 619-849-2486). The DRC's policies and procedures for assisting such students in the development of an appropriate academic adjustment plan (AP) allows PLNU to comply with

Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Section 504 (a) prohibits discrimination against students with special needs and guarantees all qualified students equal access to and benefits of PLNU programs and activities. After the student files the required documentation, the DRC, in conjunction with the student, will develop an AP to meet that student's specific learning needs. The DRC will thereafter email the student's AP to all faculty who teach courses in which the student is enrolled each semester. The AP must be implemented in all such courses.

If students do not wish to avail themselves of some or all of the elements of their AP in a particular course, it is the responsibility of those students to notify their professor in that course. PLNU highly recommends that DRC students speak with their professors during the first two weeks of each semester about the applicability of their AP in that particular course and/or if they do not desire to take advantage of some or all of the elements of their AP in that course.

Academic Honesty:

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. Faculty should follow and students may appeal using the procedure in the university Catalog. See [the catalog](#) for definitions of kinds of academic dishonesty and for further policy information.

Final Exam: Tuesday December 11, 2018 4:30-7:00

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. This schedule can be found on the university website and in the course calendar. No requests for early examinations will be approved. 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 consider changing 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.

Credit Hour:

In the interest of providing sufficient time to accomplish the stated course learning outcomes, this class meets the PLNU credit hour policy for an 3 unit class delivered over 15 weeks. Specific details about how the class meets the credit hour requirements can be provided upon request.

Schedule

M	T	W	Th	F
8/27/18	8/28/18	8/29/18	8/30/18 1.1 & 1.2	8/31/18
9/3/18 Labor Day	9/4/18 1.3 & 1.4	9/5/18	9/6/18 1.5 & 1.6 (HW 1 Due)	9/7/18
9/10/18	9/11/18 1.7 & 2.1	9/12/18	9/13/18 2.2 & 2.3 (HW 2 Due)	9/14/18
9/17/18	9/18/18 2.4 & 2.5	9/19/18	9/20/18 2.6 & 3.1 (HW 3 Due)	9/21/18
9/24/18	9/25/18 4.1 & 4.2	9/26/18	9/27/18 4.3 & 4.4 (HW 4 Due)	9/28/18
10/1/18	10/2/18 4.5 & Review	10/3/18	10/4/18 Exam 1	10/5/18
10/8/18	10/9/18 5.1 & 5.2	10/10/18	10/11/18 5.3 & 5.4 (HW 5 Due)	10/12/18
10/15/18	10/16/18 5.5	10/17/18	10/18/18 6.1 (HW 6 Due)	10/19/18 Fall Break
10/22/18	10/23/18 6.2 & 6.3	10/24/18	10/25/18 6.4 (HW 7 Due)	10/26/18
10/29/18	10/30/18 7.1 & 7.2	10/31/18	11/1/18 7.3 & 7.4 (HW 8 Due)	11/2/18
11/5/18	11/6/18 7.5	11/7/18	11/8/18 7.6 (HW 9 Due)	11/9/18
11/12/18	11/13/18 8.1 & Review	11/14/18	11/15/18 Exam 2	11/16/18
11/19/18	11/20/18 8.2 & 8.3	11/21/18	11/22/18 Thanksgiving Break	11/23/18
11/26/18	11/27/18 8.4 & 8.5	11/28/18	11/29/18 8.6 (HW 10 Due)	11/30/18
12/3/18	12/4/18 8.7	12/5/18	12/6/18 Review (HW 11 Due)	12/7/18
12/10/18	12/11/18 Final 4:30-7:00 pm	12/12/18	12/13/18	12/14/18