

Math 126: Precalculus I

Mathematics and Statistics Department, University of Nevada, Reno

Section 1003, TuTh 11-12:15, MIKC 124

Fall 2016

INSTRUCTOR INFORMATION

Instructor: Adrienne Petersen
Email: arpetersen@unr.edu
Website: www.arpetersen.com
Office: DMS 233
Office Hours: MW 12pm-2pm

REQUIRED MATERIALS

Textbook: "Precalculus" 10th Edition by Sullivan (Also available online at www.MyMathLab.com)
Calculator: Scientific calculator and knowledge of operating calculator

COURSE DESCRIPTION

Fundamentals of algebra; polynomial, rational, exponential, and logarithmic functions, their graphs and applications; systems of equations. Credit may not be received for Math 126 if credit has already been awarded for Math 128 or higher. Math 128 is a one semester alternative to Math 126-127.

LEARNING OBJECTIVES

This course satisfies the university core mathematics requirement and meets the Core Objective CO2 Quantitative Reasoning: Students will be able to apply quantitative reasoning and mathematical analysis methodologies to understand and solve problems.

STUDENT LEARNING OUTCOMES

Upon completion of this course, a student will be able to graph rational functions, solve equations involving exponential and logarithmic functions, and solve inequalities involving rational functions.

TOPICS COVERED

Function notation, domain and range of a function. Properties of functions: increasing/decreasing, relative max/min, symmetry. Graphing functions: polynomial, rational, exponential, logarithm. Applications of functions: max/min of quadratic functions. Solving polynomial and rational inequalities. Roots/zeros of polynomials. Composition of functions. Inverse Functions. Finance/Biology applications. Solving systems of equations. Circles.

PREREQUISITE

One of the following: ACT 22, SAT 500, Math 096 C/S, Accuplacer EA 80 and CLM 55

GRADING

Your course grade will be determined by the following:

Homework	15%
Recitation Activities	10%
Exams	45%
Final Exam	30%

The grading scale will be as follows:

A	92.0 – 100%	C	70.0 – 77.9%
A-	90.0 – 91.9%	D+	68.0 – 69.9%
B+	88.0 – 89.9%	D	62.0 – 67.9%
B	82.0 – 87.9%	D-	60.0 – 61.9%
B-	80.0 – 81.9%	F	0 – 59.9%
C+	78.0 – 79.9%		

No rounding up will be done, no exceptions. You need at least a D to pass this class and earn core math credit. You need at least a C to move on to the next math class.

HOMEWORK

All homework assignments are to be completed on www.MyMathLab.com. Due dates will be posted online. It is your responsibility to keep up with the homework and due dates. You may work on your homework after the due date with a 50% penalty until midnight of the day before the next exam. You are allowed to work on homework with your classmates, a tutor, or in the math center. Getting help on homework is encouraged and is not considered cheating.

All students must register for this course online by going to www.MyMathLab.com and following the instructions. You will need a valid email address, course ID (**The course ID for this class is [petersen09782](#)**) and student access code (comes with textbook or is purchased online) to register. All students must register by Friday, September 2. If you need assistance registering, please call tech support at 1-800-677-6337.

RECITATIONS

Every Friday you will have a recitation section led by our TA. There will be graded quizzes, group work, and other activities in recitations that will make up 10% of your overall grade. There will also be time for you to ask questions from lecture or homework, so you are encouraged to review the week's homework **before** recitation. Your two lowest recitation scores will be dropped at the end of the semester. Absolutely no early or late quizzes/activities will be given. Your TA will give you a syllabus with their policies and contact information at the first recitation. It is your responsibility to make sure that your recitation grades are entered correctly on the MyMathLab gradebook. Any grading error must be reported to the instructor or TA in writing within 1 week of posting.

EXAMS

There will be 4 exams and a comprehensive final exam. Please see the class schedule below for exam dates. Exams will be a combination of multiple choice and free response. Free response may or may not be graded with partial credit. A scientific calculator will be allowed on the final exam. Formula sheets or notes will not be allowed on exams. You must have your UNR student ID with you for all tests. If you are late to an exam 10% will be deducted from your exam score. Any student participating in official school activities that will interfere with tests must make arrangements with me two weeks prior to the test that will be missed. Any student requiring accommodations through the DRC must schedule their exams on the same day as the in class exam. Your lowest exam score (excluding the final) will be dropped at the end of the course. If you have a documented medical emergency, family emergency, travel plans, etc on the day of an exam, you must take the missed exam as your drop. It is your responsibility to make sure that your exam grades are entered correctly on the MyMathLab gradebook. Any grading error must be reported to the instructor or TA in writing within 1 week of posting.

AVAILABLE RESOURCES

Your student fees cover usage of the Math Center (775-784-4433 or www.unr.edu/mathcenter/), Tutoring Center (775-784-6801 or www.unr.edu/tutoring/), and University Writing Center (775-784-6030 or www.unr.edu/writing_center/). These centers support your classroom learning; it is your responsibility to take advantage of their services. Keep in mind that seeking help outside of class is the sign of a responsible and successful student.

DISABILITY STATEMENT

The Department of Mathematics and Statistics supports providing equal access for students with disabilities. Any student with a disability needing academic adjustments or accommodations is requested to speak with me or the Disability Resource Center (Thompson Building Suite 101) as soon as possible to arrange for appropriate accommodations.

EMAIL

Email is a formal means of communication between you and your professor or TA. Make sure to use correct grammar, capitalization, and punctuation. You should include your full name, class name, and section number on every email. Any email not following these guidelines may be returned to you for revision. You should try to resolve any issues or questions with your TA before emailing your professor. Many questions can be answered by reviewing our syllabus, schedule, and website. Please allow 1-2 business days for a reply.

ACADEMIC CONDUCT

No laptops, cell phones, iPods, or other electronics are allowed in class. If you are being disruptive during class you will be asked to leave. You must come to class on time and stay until the end of lecture. Tardy students will not be admitted to class. Please visit <http://www.unr.edu/student-conduct> for our official student code of conduct.

UNIVERSITY RECORDING POLICY

Surreptitious or covert video-taping of class or unauthorized audio recording of class is prohibited by law and by Board of Regents policy. This class may be videotaped or audio recorded only with the written permission of the instructor. In order to accommodate students with disabilities, some students may have been given permission to record class lectures and discussions. Therefore, students should understand that their comments during class may be recorded.

ACADEMIC DISHONESTY

Cheating, plagiarism or otherwise obtaining grades under false pretenses constitutes academic dishonesty according to the code of this university. Academic dishonesty will not be tolerated and penalties can include canceling a student's enrollment without a grade or giving an F for the course or for the assignment. For more details, see the University of Nevada, Reno general catalog.

Please visit my website www.arpetersen.com for a list of frequently asked questions and their answers.

1	Tuesday	August 30	Class Intro/2.1
	Thursday	September 1	2.1
	Friday	September 2	Recitation
2	Tuesday	September 6	2.2
	Thursday	September 8	2.3
	Friday	September 9	Recitation
3	Tuesday	September 13	2.4
	Thursday	September 15	2.5
	Friday	September 16	Recitation
4	Tuesday	September 20	EXAM 1
	Thursday	September 22	3.1 and 3.2
	Friday	September 23	NO RECITATION
5	Tuesday	September 27	3.3
	Thursday	September 29	3.4
	Friday	September 30	Recitation
6	Tuesday	October 4	3.5
	Thursday	October 6	EXAM 2
	Friday	October 7	NO RECITATION
7	Tuesday	October 11	4.1
	Thursday	October 13	4.1 and 4.2
	Friday	October 14	Recitation
8	Tuesday	October 18	4.2
	Thursday	October 20	4.3

	Friday	October 21	Recitation
9	Tuesday	October 25	4.3 and 4.4
	Thursday	October 27	EXAM 3
	Friday	October 28	Nevada Day-- No Class
10	Tuesday	November 1	5.1
	Thursday	November 3	5.2
	Friday	November 4	Recitation
11	Tuesday	November 8	5.3
	Thursday	November 10	5.4
	Friday	November 11	Veteran's Day--No Class
12	Tuesday	November 15	5.5
	Thursday	November 17	5.6 and 5.8
	Friday	November 18	Recitation
13	Tuesday	November 22	EXAM 4
	Thursday	November 24	Thanksgiving--No Class
	Friday	November 25	Thanksgiving--No Class
14	Tuesday	November 29	A.7
	Thursday	December 1	1.4
	Friday	December 2	Recitation
15	Tuesday	December 6	11.1
	Thursday	December 8	11.1
	Friday	December 9	Recitation
16	Tuesday	December 13	Review for Final
	Thursday	December 15	FINAL EXAM 8am-10am