

Math 133 – Pre-Calculus

(3 Semester Hours)

Point Loma Nazarene University – Spring 2016

Time and Place: TR 9:30-10:45am RLC 108

Instructor: Professor Kevin Stovall

Office Number: S210

Office Hours (in S210): Tuesday 8:30-9:30 a.m.

Thursday 8:30-9:30 a.m.

My email is kevinstovall@gmail.com. I will be checking this on a regular basis and this is the most reliable way to reach me other than office hours.

Textbook: *Pre-calculus with Calculus Previews* by Zill and Dewar, (5th Edition)

Needed Supplies: Scientific calculator

Course Description:

An introduction to the functions necessary for the study of calculus with an emphasis on numerical and graphical notions of continuity, limits and derivatives. The following function types are used as examples for the study of the concepts: polynomial, rational, exponential, logarithmic, and trigonometric functions.

Prerequisite(s): MTH 113 or equivalent.

Learning Outcomes for this Course:

1. Students will develop an ability to graph functions including polynomial and trigonometric functions.
2. Students will develop an ability to solve problems using polynomial, exponential and trigonometric functions.

Course Philosophy:

Mathematics requires active participation. Participation means: asking questions, making conjectures and checking them, providing solutions to problems, sharing ideas with classmates. During class time I will participate in the same way. My advantage is that I have seen the material several times.

Grading: Grades for the course will be based on:

Homework	300 points
Exams (2 at 200 points each)	400 points
Final Exam	<u>300 points</u>
Total:	1,000 points

Homework (30%): Homework will be assigned every week in class. A homework assignment is late if it is not received at the start of class on the due date. Late homework will be deducted 20% and may not be accepted after 1 week late. 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 (20% each) and Final Exam (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.

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.

**The Final Exam is COMPREHENSIVE
Tuesday, May 3rd, 2016, 10:30am-1:00 p.m.**

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, electrical devices or things that are distracting 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) and it is not the best use of class time.

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.

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 becomes an expression of faith. Being of Wesleyan heritage, we aspire 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 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=18&navoid=1278#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. Students can also reach the Disability Resource Center by phone at 619-849-2486 or by e-mail at DRC@pointloma.edu. 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=18&navoid=1278#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=18&navoid=1278#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=18&navoid=1278#Academic_Honesty).

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.

Learning Outcomes:

Be sure to include the learning outcomes for your specific class from the list below:

Sources of Help:

1. Me. If you have questions, ask me. See office hours.
2. Other classmates. Form study groups! Work together!

Class Schedule, subject to change

Week	Day	Tuesday	Thursday
1	January 12, 14	No Class (Monday Schedule)	Introduction to the Class Sections 1.1 and 1.2
2	January 19, 21	Sections 1.3 and 1.4	Sections 1.4 and 1.5
3	January 26, 28	Sections 2.1 and 2.2	Sections 2.2 and 2.3
4	February 2, 4	Sections 2.4 and 2.5	Sections 2.5 and 2.6
5	February 9, 11	Sections 2.7 and 2.8	Sections 2.8 and 2.9
6	February 16, 18	Sections 3.1 and 3.2	Sections 3.3 and 3.4
7	February 23, 25	Sections 3.5 and 3.6	Exam #1 Review
8	March 1, 3	Exam #1	Sections 4.1 and 4.2
	March 8, 10	Spring Break	Spring Break
9	March 15, 17	Sections 4.3 and 4.4	Sections 4.4 and 4.5
10	March 22, 23	Sections 4.6 and 4.7	Easter Recess
11	March 29, 31	Sections 4.7 and 4.8	Sections 5.1 and 5.2
12	April 5, 7	Sections 5.3 and 5.4	Exam #2 Review
13	April 12, 14	Exam #2	Sections 6.1 and 6.2
14	April 19, 21	Sections 6.3 and 6.4	Sections 8.1 and 8.2
15	April 26, 28	Sections 10.1 and 10.2	Review for Final Exam
Finals	May 3	Comprehensive Final Exam Tuesday May 3rd, from 10:30am – 1:00pm	

Homework Assignments

All Homework is due on Tuesday on the listed date

Section	Problems	Due
1.1	2,4,9,12,27,28,37,42,50,62	January 19
1.2	3,6,8,10,15,22,23,30,55,57(b)	
1.3	2,10,13,22,23,28,29,40,47,55	January 26
1.4	5,6,11,12,19,24,29,43,51,63,69,70	
1.5	1,2,8,9,13,17,21,27	
2.1	3,5,14,17,27,28,39,40,47,56,59,61,63	February 2
2.2	5,6,12,13, 23-32, 37	
2.3	3,4,7,27,29,33,39,53,55,56	
2.4	11,13,15,25,28,34,35,46,50	February 9
2.5	2,3,7,10,13,14,19,27,34,37,43	
2.6	5,7,9,11,12,31,34,47,48	
2.7	3,4,5,7,9,17,21,24,43,44,45,57	February 16
2.8	5,7,11,12,21,26	
2.9	1,3,5,8	
3.1	23,27,29	February 23
3.2	2,3,12,13	
3.3	2,3,9,10,19,20,41,42	
3.4	4,5,11,17,31,32,48	
3.5	4,6	March 1
3.6	3,7,8,27,29,37,38	
4.1	2,3,5,10,14,15,17,18,28,31,39,59,60,82	March 15
4.2	2,3,12,13,27,28,37,41,42,29,50	
4.3	3,5,8,9,20,21,26,27,34,35,53	March 22
4.4	1,2,5,6,7,23,27,33,36,38,43	
4.5	23,24,45,62,75	
4.6	4,5,14,15,24,25,35,40	March 29
4.7	3,5,6,15,18,21,26,33,36	
4.8	2,3,4,5,6,16,17,33,35,42,43	April 5
5.1	2,3,4,11,12,23,24	
5.2	1,2,11,18,21	
5.3	3,4,18	April 12
5.4	3,4,24	
6.1	2,3,4,7,14,15,23,24,35,40	April 19
6.2	1,4,5,14,15,19,20,21,26,31,39,45,59	
6.3	2,3,7,13,22,23,27	April 26
6.4	1,9,10,29,30	
8.1	1,2,3,4,15,18,46,47,51,56,57	
8.2	1,7,8,13,26,33,34,35,38,51,52	
10.1	3,4,5,6,7,19,20,23,26,31,32	May 3
10.2	3,4,5,6,9,10,15,16,29,32,45,51	