Fall 2013- Math 123: Pre-Calculus Mathematics

MWF 8:30-9:25 in RLC 108

Instructor: Dr. Catherine Crockett email:catherinecrockett@pointloma.edu

Office : RS 226 office phone: 619-849-2723

Office hours: MWF 11-12, MW 1-2:30 and TTH 3-4 or by appointment

Textbook: Precalculus with Calculus Previews, 5th Ed. By Dennis G. Zill and Jacqueline M. Dewar

Prerequisite: Mathematics 113 (or equivalent).

Course Description: This course is designed to give a basic introduction to functions and skills necessary for the study of calculus. We will study polynomial, rational, exponential, logarithmic, and trigonometric functions, coordinate geometry, and graphing.

Class Learning Outcomes:

Students will develop an ability to graph functions including polynomial and trigonometric functions. Students will develop an ability to solve functions including polynomial and trigonometric functions.

Class time will be used to:

Discuss some topics in the text Lecture on topics <u>not</u> in the text. Respond to questions on subject material Take quizzes and exams

Course Philosophy

Mathematics is learned primarily by **doing** Mathematics—not simply listening to it; that is, the effective learning of mathematics is an active process, involving participation. Thus, the course aims to maximize student involvement, hence student achievement. Individual concepts in mathematics are **learned** (mastered as opposed to memorized) by thinking and working through numerous examples and exercises which involve these concepts; by this process mathematical concepts become familiar, and less abstract.

The instructor is responsible for overall planning, for directing instructional activities, and for evaluation of student achievement. You are ultimately responsible for your own achievement. For example, you are responsible for meeting all scheduled activities of the course, such as class meetings, problem assignments, exams, and the final examination; you are also responsible for regular work outside of class in preparation for class lectures and discussions.

Grading: Grades for the course will be based on homework (20%), quizzes (10%), two exams (20% each; total of 40 %), and a final exam (30%).

Homework (20%): Please see the attached homework schedule. 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 except by prior arrangement or with a documented emergency. 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. The three lowest homework scores will be dropped.

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 two quiz scores will be dropped.

Tests and Final Exam (20% each 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 <u>prior consent by me</u> 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.

Please note: I do not intend to accept excuses such as miscommunication with parents, benefactors, sport team sponsors and/or travel agents.

Please note: The Final Exam is COMPREHENSIVE.

December 16: 7:30- 10:00 a.m.

Grading Scale: Course grades will be assigned according to the following scale:

	Grading Scale in percentages							
	Α	В	С	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)				

This semester we are using the LMS (learning management system) called Canvas.
 In this system, you will find handouts from class and your grades.

TO access go to: https://canvas.pointloma.edu/login

From there you can login using your PLNU user name and password.

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 <u>first two weeks</u> 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.

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!

Schedule:

Week	Monday	Wednesday	Friday
1	9/2	9/4	9/6
-	No Class	Introduction, 1.1	1.2
	Tro class	miroduction, 1.1	1.2
2	9/9	9/11	9/13
	1.3	1.4	Part of 1.5
			Quiz 1 (1.2, 1.3)
3	9/16	9/18	9/20
	2.1	2.2	2.3
			Quiz 2 (1.4,1.5, 2.1)
4	9/23	9/25	9/27
	2.4	2.5	2.6
			Quiz 3 (2.2, 2.3,2.4)
5	9/30	10/1	10/3
	2.7	2.8	3.1
			Quiz 4 (2.5, 2.6, 2.7)
6	10/7	10/9	10/11
	3.2	3.3	Review
7	10/14	10/16	10/18
	Exam #1	3.4	3.5
8	10/21	10/23	10/25
	3.6	4.1	No class
			Fall Break
9	10/28	10/30	11/1
	4.2	4.3	4.3
			Quiz 5 (4.1, 4.2)
10	11/4	11/6	11/8
	4.4	4.5	4.6
			Quiz 6(4.3, 4.4)
11	11/11	11/13	11/15
	Applications	5.1	5.2
			Quiz 7 (4.6,
			applications)
12	11/18	11/20	11/22
	5.2	5.3/5.4	Review
13	11/25	11/27	11/29
	Exam #2	No class	No Class
		Thanksgiving	Thanksgiving
14	12/2	12/4	12/6
	6.1	6.2	6.3
			Quiz 8 (6.1, review)
15	12/9	12/11	12/13
	6.4	9.1	Review
Final	12/16	12/18	12/20
Exams	Final Exam		
Week	7:30- 10:00 am.		