PLNU

FALL 2014

MTH 121-1	Calculus and modeling
Class Time	F 7:25 am — 8:20 am
Location	LE
Instructor	Jesús Jiménez PhD, Professor of Mathematics
Office	RS 218
Phone	619-849-2634
Email	jjimenez@pointloma.edu
Office Hours	M 1 — 4 pm, TH 11 am — 12 pm and 3 — 4 pm
Prerequisites	A score of 3 or more on AP 114 or AP 115 or credit for a calculus
	course from another institution
Textbook	No textbook is required

PLNU Mission: To Teach ~ To Shape ~ To Send

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.

Course Description

An introduction to mathematical modeling using mathematical concepts from Calculus I. Graded Credit/No Credit.

Learning Outcomes for this Course

- 1. Students will be able to develop mathematical models for simple problems.
- 2. Students will be able to solve these problems using calculus.

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.

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=14&navoid=1089#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. 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=14&navoid=1089#Academic Accommodations

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. 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=14&navoid=1089#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 (<u>http://catalog.pointloma.edu/content.php?catoid=14&navoid=1089#Academic_Honesty</u>).

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.

Grading Lab (10 %) The lab grade consists of weekly labs (30%), one midterm exam (30%) and a final exam (40%).

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

Grading Scale in Percentages

	Α	В	С	D
+		(87.5 <i>,</i> 90]	(77.5 <i>,</i> 80]	(67.5, 70]
	(92.5, 100]	(82.5 <i>,</i> 87.5]	(72.5, 77.5]	(62.5, 67.5]
—	(90 <i>,</i> 92.5]	(80, 82.5]	(70, 72.5]	[60, 62.5]

Cell Phones

Turn off any cell phone, pager or things that are distracting while you are in class. Also, you should not 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.

Sources of Help:

- 1. Me. If you have questions, ask me. See my office hour's schedule.
- 2. Other classmates. Form study groups! Work together!

Lab Calendar								
Week	Date	Activity		Week	Date	Activity		
1	5-Sep	Coke		8	31-Oct	Work 1		
2	12-Sep	Aids 1		9	7-Nov	Work 2		
3	19-Sep	Aids 2		10	14-Nov	Population		
4	26-Sep	Aids 3		11	21-Nov	Finance 1		
5	3-Oct	Aids 4		12	28-Nov	Finance 2		
6	10-Oct	Review		13	5-Dec	Finance 3		
7	17-Oct	Exam 1		14	12-Dec	Final Exam		