

# Point Loma Nazarene University

Department of Mathematical, Information and Computer Science

**MTH233-1** Linear Algebra  
**Class Time** MWF 11:00 – 11:50 am  
**Location** RS 15

**Instructor** Jesús Jimenéz, Ph.D.  
**Office** RS 218  
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**Email** [jesusjimenez@pointloma.edu](mailto:jesusjimenez@pointloma.edu)  
**Office Hours** T 9:30-10:45 am, 1:00-2:45 pm or by appointment  
 W 1:00- 2:00 pm  
**Textbook** Linear algebra and its applications. 4<sup>th</sup> edition.  
**Author** David C. Lay

## Important Dates

**Exam 1** Feb 6  
**Exam 2** Mar 15  
**Exam 3** Apr 17  
**Final Exam** Apr 29 (10:30 am – 12:30 pm)

## Course Description

A computational introduction to linear algebra with applications. A study of linear equations, matrix algebra, Euclidean spaces and subspaces, vector spaces, linear transformations, eigenvalues, eigenvectors, and inner products.

## Grade Distribution

Three partial exams @ 150 each	450
Final Exam	300
Homework	250
Total	1000

## Grading Scale

	A	B	C	D	F
+	>87.5%	>77.5%	>67.5%	<60%	
	>92.5%	>82.5%	>72.5%	>62.5%	
--	>90%	>80%	>70%	>60%	

## Course Requirements

### Prerequisites

MTH144 or MTH164. (Calculus I)

## Course Learning Outcomes

Students will be able to apply their mathematical knowledge to solve problems.  
 Students will be able to demonstrate facility with algebraic structures.  
 Students will be able to speak about their work with precision, clarity and organization.  
 Students will be able to write about their work with precision, clarity and organization.  
 Students will collaborate effectively in teams.

## Academic Honesty PLNU catalog

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.

**Attendance  
PLNU catalog**

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.

**Homework**

Homework will be assigned during the week and it will be collected the following Wednesday. No late homework will be accepted. However, the two lowest scored assignments will be dropped from the computation of the course grade.

**Final Exam  
Date and Time**

The Final Exam is a COMPREHENSIVE examination.  
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.

**Resources**

**Library**

**Tutorial Center**

The tutorial center (located in the Bond Academic Center) may have tutors that can help you clarify questions you may have regarding material covered in class or about the homework.

**Mathematics  
Learning Center**

The Mathematics Learning Center (located on the second floor of Rohr Science) may have tutors that can help you clarify questions you may have regarding material covered in class or about the homework. Check with department assistant for the schedule.

**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 first two weeks of class.

	Week	Section		Week	Section
Jan 8	1	Introduction and 1.1	Mar 4	9	<b>Spring Break</b>
Jan 9		1.1	Mar 6		<b>Spring Break</b>
Jan 11		1.2	Mar 8		<b>Spring Break</b>
Jan 14	2	1.3	Mar 11	10	4.5
Jan 16		1.4	Mar 13		4.6
Jan 18		1.5	Mar 15		<b>Exam 2</b>
Jan 21	3	<b>MLK day (no Classes)</b>	Mar 18	11	4.7
Jan 23		1.6	Mar 20		5.1
Jan 25		1.7	Mar 22		5.2
Jan 28	4	1.8	Mar 25	12	5.3
Jan 30		1.9	Mar 27		5.4
Feb 1		1.10	Mar 29		<b>Easter Recess</b>
Feb 4	5	2.1	Apr 1	13	<b>Easter Recess</b>
Feb 6		<b>Exam 1</b>	Apr 3		5.5
Feb 8		2.2	Apr 5		6.1
Feb 11	6	2.3	Apr 8	14	6.2
Feb 13		2.4	Apr 10		6.3
Feb 15		2.8	Apr 12		6.4
Feb 18	7	3.1	Apr 15	15	6.5
Feb 20		3.2	Apr 17		<b>Exam 3</b>
Feb 22		4.1	Apr 19		7.1
Feb 25	8	4.2	Apr 22	16	7.2
Feb 27		4.3	Apr 24		7.4
Mar 1		4.4	Apr 26		7.4
			April 29		<b>Final Exam (10:30 am – 12:30 pm)</b>