# Point Loma Nazarene University Math 153 Mathematical Analysis for Business and Economics Spring 2016 (3 units)

MWF 8:30-9:25 a.m. RLC106		
Maria Zack, Ph.D	).	
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mzack@pointlom	na.edu	
S222		
Monday Tuesday Wednesday Thursday Friday	7:30-8:30 a.m. & 11:00 a.mnoon By appointment 1:30-2:30 p.m. 7:00-8:00 a.m. 3:30-4:30 p.m.	
	MWF 8:30-9:25 a Maria Zack, Ph.D 849-2458 mzack@pointlom S222 Monday Tuesday Wednesday Thursday Friday	

These are the hours that I will definitely be available. You can come by my office any time and if I am free I will help you. I keep a sign-up sheet on my office door and you can sign up for any empty time slot (there are slots other than my office hours) if you want to be sure that the time is reserved for you. If you have a question or just want to hang out, come by my office.

**Text:** Introductory Mathematical Analysis for Business, Economics, and the Life and Social Sciences (13th Edition); by Ernest F. Haeussler, Richard S. Paul, Richard J. Wood

Other materials for the course: A scientific calculator is recommended.

# **Catalog Description:**

MTH 153 - Mathematical Analysis for Business and Economics (3)

This course focuses on learning and using basic mathematical tools that are fundamental to business applications. Applications of these tools include: supply and demand, optimization, cost-benefit analysis, equilibrium (systems of equations), interest, and loan amortization. Prerequisite(s): MTH113 or equivalent

# Learning Outcomes:

- Students will develop an ability to use mathematics to analyze supply and demand.
- Students will be able to use mathematics to solve a variety of interest problems.
- Students will develop an ability to use mathematics to solve equilibrium, optimization and costbenefit problems.

# Grading:

The components of the grades:

Homework	240
Projects and Activities (2-3)	60
Exam 1	200
Exam 2	200
Final	300
Total Points	1000

Approximate minimal points required to obtain a given grade are:

	Α	В	С	D
+		(875, 900)	(775, 800)	(675, 700)
	[925, 1000]	[825, 875]	[725, 775]	[625, 675]
-	[900, 925)	[800, 825)	[700, 725)	[600, 625)

Note that scores of 599 or lower will result in an F.

#### Homework:

Homework will be assigned each day at the end of class. All homework assigned in a week will be **due at the start of class the next Wednesday**. No late homework will be accepted except by prior arrangement or with a documented emergency. Homework assignments are posted in Canvas. The object of the homework is to learn how to do the problems so I expect to see calculations on your homework using the terminology and methods of the class and not just the answer. A random selection (the same for all people) of the problems will be graded on any homework assignment.

### **Projects and Activities:**

During the semester you will be assigned 2-3 activities or projects that may require group work outside of class.

### Exams:

There is two in-class exams. If you do not take an exam you will receive a zero for it. Late exams may be taken only by <u>prior arrangement</u> or with a documented emergency. I must participate in the decision for you to miss an exam; this means that you need to phone me <u>before</u> missing an exam.

#### Final:

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 for MTH242 is cumulative and is given at the assigned final time on **FRIDAY MAY 6, FROM 7:30-10:00 AM.** 

#### **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: <a href="http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278#Class\_Attendance">http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278#Class\_Attendance</a>

# **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 <u>DRC@pointloma.edu</u>. 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 <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: <a href="http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278#Academic\_Honesty">http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278#Academic\_Honesty</a>

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 a 3 unit class delivered over 15 weeks. Specific details about how the class meets the credit hour requirements can be provided upon request.

Monday	Tuesday	Wednesday	Thursday	Friday
11-Jan	12-Jan	13-Jan	14-Jan	15-Jan
NO CLASSES	Introduction	1.1 Applications of Equations		1.1 Applications of Equations
	Chapter 0	1 2 Linear Inequalities		More Practice
19 Jan			21 Jan	32 Jan
1.2 Applications of	19-1911	20-Jan	21-Jaii	22-Jdll
		1.4 Absoluto Valuo		1.6 Soquences
mequanties		1.4 Absolute value		1.0 Sequences
		1.5 Summation Notation		
25-Jan	26-Jan	27-Jan	28-Jan	29-Jan
MLK DAY		2.1 Functions		2.2 Special Functions
1-Feb	2-Feb	3-Feb	4-Feb	5-Feb
2.3 Combinations of				
Functions		2.4 Inverse Functions		2.5 Graphs
8-Feb	9-Feb	10-Feb	11-Feb	12-Feb
2.8 Functions of Several		3.1 Lines		3.3 Quadratic Functions
Variables		3.2 Linear Functions		
15-Feb	16-Eeb	17-Eeb	18-Eeh	19-Eeb
3.4 Systems of Linear	10105	17100	10105	19100
Faultions		3 5 Non-Linear Systems	STUDY	FXAM #1
Equations		Evam Review	SESSION	
22.5-6	22 F-1			
22-Feb	23-Feb	24-Еер	25-Feb	26-Feb
3.6 Applications of Systems				4.1 Europential Europtiana
		PROJECT - NO CLASS		4.1 Exponential Functions
Equations				
29-Feb	1-Mar	2-Mar	3-Mar	4-Mar
4.2 Logarithmic Functions		4.3 Properties of Logarithms		4.4 Log and Exponential
				Equations
7-Mar	8-Mar	9-Mar	10-Mar	11-Mar
7-Mar SPRING	8-Mar BREAK	9-Mar SPRING	10-Mar BREAK	11-Mar SPRING
7-Mar SPRING	8-Mar BREAK	9-Mar SPRING	10-Mar BREAK	11-Mar SPRING
7-Mar SPRING 14-Mar	8-Mar BREAK 15-Mar	9-Mar SPRING 16-Mar	10-Mar BREAK 17-Mar	11-Mar SPRING 18-Mar
7-Mar SPRING 14-Mar	BREAK 15-Mar	9-Mar SPRING 16-Mar	10-Mar BREAK 17-Mar	11-Mar SPRING 18-Mar 5.3 Continuous
7-Mar SPRING 14-Mar 5.1 Compound Interest	8-Mar BREAK 15-Mar	9-Mar SPRING 16-Mar 5.2 Present Value	10-Mar BREAK 17-Mar	11-Mar SPRING 18-Mar 5.3 Continuous Compounding
7-Mar SPRING 14-Mar 5.1 Compound Interest	8-Mar BREAK 15-Mar	9-Mar SPRING 16-Mar 5.2 Present Value	10-Mar BREAK 17-Mar	11-Mar SPRING 18-Mar 5.3 Continuous Compounding
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7-Mar SPRING 14-Mar 5.1 Compound Interest 21-Mar	8-Mar BREAK 15-Mar 22-Mar	9-Mar SPRING 16-Mar 5.2 Present Value 23-Mar	10-Mar BREAK 17-Mar 24-Mar	11-Mar SPRING 18-Mar 5.3 Continuous Compounding 25-Mar
7-Mar SPRING 14-Mar 5.1 Compound Interest 21-Mar 5.4 Annuities	8-Mar BREAK 15-Mar 22-Mar	9-Mar SPRING 16-Mar 5.2 Present Value 23-Mar 5.5 Amortization of Loans	10-Mar BREAK 17-Mar 24-Mar EASTER	SPRING11-MarS.3 Continuous Compounding18-Mar25-Mar EASTER25-Mar
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7-Mar SPRING 14-Mar 5.1 Compound Interest 21-Mar 5.4 Annuities 28-Mar EASTER	8-Mar BREAK 15-Mar 22-Mar 29-Mar	9-Mar SPRING 16-Mar 5.2 Present Value 23-Mar 5.5 Amortization of Loans 30-Mar 6.1 Matrices 6.2 Matrix Addition	10-Mar BREAK 17-Mar 24-Mar EASTER 31-Mar	SPRING 11-Mar SPRING 18-Mar 5.3 Continuous Compounding 25-Mar EASTER 1-Apr 6.2 Scalar Multiplication Exam Review
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7-Mar SPRING 14-Mar 5.1 Compound Interest 21-Mar 5.4 Annuities 28-Mar EASTER 4-Apr EXAM #2 11-Apr 6.4 Solving Systems Reducing Matrices (part 1)	8-Mar BREAK 15-Mar 22-Mar 29-Mar 5-Apr 12-Apr	9-Mar SPRING 16-Mar 5.2 Present Value 5.2 Present Value 23-Mar 5.5 Amortization of Loans 30-Mar 6.1 Matrices 6.2 Matrix Addition 6-Apr Go Over Exam 6.3 Matrix Multiplication 13-Apr 6.5 Solving Systems Reducing Matrices (part II)	10-Mar BREAK 17-Mar 24-Mar EASTER 31-Mar 7-Apr 14-Apr	11-Mar     SPRING     18-Mar     5.3 Continuous     Compounding     25-Mar     EASTER     1-Apr     6.2 Scalar Multiplication     Exam Review     8-Apr     6.3 Matrix Multiplication     15-Apr     GROUP PROJECT
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7-Mar SPRING 14-Mar 5.1 Compound Interest 21-Mar 5.4 Annuities 28-Mar EASTER 4-Apr EXAM #2 11-Apr 6.4 Solving Systems Reducing Matrices (part I) 18-Apr 7.1 Linear Inequalities in Two Variables 25-Apr 7.4 Simplex Method	8-Mar       BREAK       15-Mar       22-Mar       29-Mar       15-Apr       12-Apr       19-Apr       26-Apr       3-May	9-Mar SPRING 16-Mar 5.2 Present Value 5.2 Present Value 23-Mar 5.5 Amortization of Loans 30-Mar 6.1 Matrices 6.2 Matrix Addition 6-Apr 6.2 Matrix Addition 6-Apr 6.3 Matrix Multiplication 6.3 Matrix Multiplication 13-Apr 6.5 Solving Systems Reducing Matrices (part II) 20-Apr 7.2 Linear Programming 7.7 Minimization 27-Apr 7.7 Minimization	10-Mar BREAK 17-Mar 24-Mar EASTER 31-Mar 7-Apr 14-Apr 21-Apr 28-Apr 28-Apr	11-Mar     SPRING     18-Mar     5.3 Continuous     Compounding     25-Mar     EASTER     1-Apr     6.2 Scalar Multiplication     Exam Review     8-Apr     6.3 Matrix Multiplication     Broup PROJECT     15-Apr     7.3 Multiple Optimum     Solutions     29-Apr     Final Review     6-May
7-Mar SPRING 14-Mar 5.1 Compound Interest 21-Mar 5.4 Annuities 28-Mar EASTER 4-Apr EXAM #2 11-Apr 6.4 Solving Systems Reducing Matrices (part I) 18-Apr 7.1 Linear Inequalities in Two Variables 25-Apr 7.4 Simplex Method	8-Mar       BREAK       15-Mar       22-Mar       29-Mar       15-Apr       12-Apr       19-Apr       26-Apr       3-May	9-Mar SPRING 16-Mar 16-Mar 5.2 Present Value 5.2 Present Value 23-Mar 23-Mar 30-Mar 30-Mar 30-Mar 30-Mar 6.3 Matrization of Loans 30-Mar 6.5 Amortization of Loans 6.5 Solving Systems Reducing Matrices (part II) 20-Apr 7.2 Linear Programming 27-Apr 7.7 Minimization 27-Apr	10-Mar BREAK 17-Mar 24-Mar EASTER 31-Mar 7-Apr 14-Apr 21-Apr 28-Apr 28-Apr	11-Mar     SPRING     18-Mar     5.3 Continuous Compounding     25-Mar     EASTER     1-Apr     6.2 Scalar Multiplication Exam Review     8-Apr     6.3 Matrix Multiplication     BROUP PROJECT     15-Apr     7.3 Multiple Optimum Solutions     29-Apr     Final Review     6-May
7-Mar SPRING 14-Mar 5.1 Compound Interest 21-Mar 5.4 Annuities 28-Mar EASTER 4-Apr EXAM #2 11-Apr 6.4 Solving Systems Reducing Matrices (part I) 18-Apr 7.1 Linear Inequalities in Two Variables 25-Apr 7.4 Simplex Method	8-Mar       BREAK       15-Mar       22-Mar       29-Mar       15-Apr       12-Apr       19-Apr       26-Apr       3-May	9-Mar SPRING 16-Mar 16-Mar 5.2 Present Value 5.2 Present Value 23-Mar 5.5 Amortization of Loans 30-Mar 30-Mar 30-Mar 6.1 Matrices 6.2 Matrix Addition 6-Apr 6.2 Matrix Addition 6-Apr 6-Apr 6-Apr 6-Apr 6-S Solving Systems Reducing Matrices (part II) 20-Apr 7.2 Linear Programming 7.7 Minimization 27-Apr 7.7 Minimization	10-Mar BREAK 17-Mar 24-Mar EASTER 31-Mar 31-Mar 7-Apr 14-Apr 21-Apr 28-Apr 5-May STUDY SESSION	SPRING 11-Mar SPRING 18-Mar 5.3 Continuous Compounding 25-Mar EASTER 1-Apr 6.2 Scalar Multiplication Exam Review 8-Apr 6.3 Matrix Multiplication 8-Apr 6.3 Matrix Multiplication 22-Apr 7.3 Multiple Optimum Solutions 29-Apr Final Review 6-May FINAL EXAM 7:30-10:00 AM