

Syllabus Details



Department/School Name:
Mathematical, Information
and Computer Sciences

Course Number and Name:
MTH1073 Business
Calculus

Number of Units: 3

Mini-Term Spring 2021 | January 11- February 12

Instructor: Michelle Freed

Phone: 619.849.2219

Email:
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**Office hours: By
Appointment in Zoom**

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 is an expression of faith. Being of Wesleyan heritage, we strive 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.

COURSE DESCRIPTION

MTH 1073 - Business Calculus (GE) (3)

A calculus course intended for those studying business economics, or other related business majors. This course covers differential and integral calculus of elementary functions with an emphasis on business applications. This is a brief calculus course and not appropriate for students majoring in science, computer science or mathematics.

Prerequisite(s): MTH 1013 or equivalent.

FOUNDATIONAL EXPLORATION

This is a PLNU Foundational Explorations course (a general education course).

PLNU provides a foundational course of study in the liberal arts informed by the life, death, and resurrection of Jesus Christ. In keeping with the Wesleyan tradition, the curriculum equips students with a broad range of knowledge and skills within and across disciplines to enrich major study, lifelong learning, and vocational service as Christ-like participants in the world's diverse societies and cultures.

This course is one of the components of the Foundational Education Program at Point Loma Nazarene University, in support of the general education learning outcome: *Quantitative Reasoning: Students will be able to solve problems that are quantitative in nature.* The purpose of general education is to provide a common educational experience, to develop essential skills, and to provide a broad cultural background for personal and professional growth.

COURSE LEARNING OUTCOMES

1. Students will be able to formulate a mathematical model from a verbal description of a problem.
2. Students will be able to solve non-routine problems using logic and quantitative techniques.
3. Students will be able to construct solutions to problems using computational techniques

REQUIRED TEXTS AND RECOMMENDED STUDY RESOURCES

Calculus and its Applications 12th Edition by Bittinger/Ellenbogen/Surgent

ISBN: 9780135225066

COURSE CREDIT HOUR INFORMATION

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 five weeks. Specific details

about how the class meets the credit hour requirement can be provided upon request. (Based on 37.5 hours of student engagement per credit hour.)

Distribution of Student Learning Hours

Category	Time Expectation in Hours
Online Participation in Discussions, Groups, etc.	12
Videos and Video Notes	32.5
Homework Assignments	39
Preparation for Exams	27
Exams	2
Total Hours	112.5

ASSESSMENT AND GRADING

Graded Components

- **Homework:** Homework will be completed online through MyMathLab, it will generally be due on Sunday at 11:59PM except for the last week when it is due before the exam.
- **Notes and Videos:** Each section will have videos to watch and you should take notes. Your notes will be submitted before each class meeting (please note that the submissions are due at 8:00AM the day of class).
- **Examination and the Final Examination.** Examination and the Final Examination 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 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 final exam date and time is set by the university at the beginning of the semester and may not be changed by the instructor. This schedule can be found on the university website and in the course calendar. No requests for early examinations will be approved. 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 consider changing the exam date and time for that particular student.
- **Late work will not be accepted** without prior consent or a well-documented emergency. Up to a maximum of one homework assignment will be accepted up to 3 days late provided that consent is received from the professor before it is due. Homework assignments that are submitted late without prior consent will be recorded with a score of zero. If more than half of the homework assignments are submitted on time, then the lowest homework score will be dropped from the calculations of the homework grade.

- The examination schedule is included in the daily schedule. This instructor does not intend to accept excuses such as poor communication with parents, benefactors, surf team sponsors and/or travel agents.

Grading Distribution	Percent
Video Notes and Worksheets	15
Homework	25
Exam	25
Final Exam	30
Attendance	5
Total	100

Grading Scale

Grades are based on the number of points accumulated throughout the course with the following exception. A student must pass at least one of the Exam or the Final Exam in order to pass the class. That is, a score of 60% must be achieved on one of the Exams, or else the final grade will be an F regardless of all other point totals. Approximate minimal percentages required to obtain a given grade are:

Standard Grade Scale Based on Percentages					
	A	B	C	D	F
+		87.5- 90	77.5-80	67.5-70	
	92.5 -100	82.5-87.5	72.5-77.5	62.5 -67.5	0-60
-	90-92.5	80-82.5	70-72.5	60-62.5	

STATE AUTHORIZATION

State authorization is a formal determination by a state that Point Loma Nazarene University is approved to conduct activities regulated by that state. In certain states outside California, Point Loma Nazarene University is not authorized to enroll online (distance education) students. If a student moves to another state after admission to the program and/or enrollment in an online course, continuation within the program and/or course will depend on whether Point Loma Nazarene University is authorized to offer distance education courses in that state. It is the student's responsibility to notify the institution of any change in his or her physical location. Refer to the map on [State Authorization \(https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures\)](https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures) to view which states allow online (distance education) outside of California.

INCOMPLETES AND LATE ASSIGNMENTS

All assignments are to be submitted/turned in by the beginning of the class session when they are due—including assignments posted in Canvas. Incompletes will only be assigned in extremely unusual circumstances.

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.

PLNU COPYRIGHT POLICY

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.

PLNU ACADEMIC HONESTY POLICY

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. 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. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See [Academic Policies \(http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278\)](http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278) for definitions of kinds of academic dishonesty and for further policy information.

PLNU ACADEMIC ACCOMMODATIONS POLICY

While all students are expected to meet the minimum standards for completion of this course as established by the instructor, students with disabilities may require academic adjustments, modifications or auxiliary aids/services. At Point Loma Nazarene University (PLNU), these students are requested to register with the Disability Resource Center (DRC), located in the Bond Academic Center. ([DRC@pointloma.edu \(mailto:DRC@pointloma.edu\)](mailto:DRC@pointloma.edu) or 619-849-2486). The DRC's policies and procedures for assisting such students in the development of an appropriate academic adjustment plan (AP) allows PLNU to comply with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Section 504 (a) prohibits discrimination against students with special needs and guarantees all qualified students equal access to and benefits of PLNU programs and activities. After the student files the required documentation, the DRC, in conjunction with the student, will develop an AP to meet that student's specific learning needs. The DRC will thereafter email the student's AP to all faculty who teach courses in which the student is enrolled each semester. The AP must be implemented in all such courses.

If students do not wish to avail themselves of some or all of the elements of their AP in a particular course, it is the responsibility of those students to notify their professor in that course. PLNU highly recommends that DRC students speak with their professors during the first two weeks of each semester about the applicability of their AP in that particular course and/or if they do not desire to take advantage of some or all of the elements of their AP in that course.

PLNU ATTENDANCE AND PARTICIPATION POLICY



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 is considered essential to optimum academic achievement. If the student is absent from more than 10 percent of class meetings, the faculty member can file a written report which may result in de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation. See [Academic Policies \(http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278\)](http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278) for further information about class attendance.

SPIRITUAL CARE

Please be aware PLNU strives to be a place where you grow as whole persons. To this end, we provide resources for our students to encounter God and grow in their Christian faith. If students have questions, a desire to meet with the chaplain or have prayer requests you can contact the [Office of Spiritual Development \(https://www.pointloma.edu/offices/spiritual-development\)](https://www.pointloma.edu/offices/spiritual-development)

Recent Announcements


	<p><u>Class Today</u> (https://canvas.pointloma.edu/courses/54360/discussion_topics/323967) Good Morning Class! I just wanted to send out a reminder email about class t...</p>	<p>Posted on: Jan 11, 2021 at 9:39am</p>
	<p><u>Welcome to MTH1073!</u> (https://canvas.pointloma.edu/courses/54360/discussion_topics/322429) Hello All!!! I just wanted to welcome to MTH1073! Monday January 11th will be...</p>	<p>Posted on: Jan 6, 2021 at 8:36am</p>

MTH1073-1SM SP21 - Business Calculus

[Jump to Today](#)

 [Edit](#)

Welcome to MTH1073! Below are a few useful course resources.

The full course syllabus may be found here [Syllabus](#) 

You may sign up for Professor Freed's virtual office hours here: [Office Hours](#)

(<https://calendar.google.com/calendar/selfsched?>

[sstoken=UUNjcW1XYnZTWExKfGRIZmF1bHR8NDBmYjQ3ODdiYWQxMDM5Yzc1YjEzOGQ4YWI1NWRiY2I](https://calendar.google.com/calendar/selfsched?sstoken=UUNjcW1XYnZTWExKfGRIZmF1bHR8NDBmYjQ3ODdiYWQxMDM5Yzc1YjEzOGQ4YWI1NWRiY2I))

You will be using the Pearson textbook:

Calculus and its Applications 12th Edition by Bittinger/Ellenbogen/Surgent

ISBN: 9780135225066

Make sure that you purchase with the access code with MyMathLab. If you go to the first assignment you will be prompted to purchase or input your code if you only wish to have the online access. Additionally, guest access is available for a few weeks, if you wish to pay, however I will not have access to your grades until you pay.

We will meet on zoom during our class scheduled meeting time, MWF 2-2:50pm. You can find the zoom link by going into [modules](#).

If you desire to see your work organized by week, you are able to access the weekly [modules](#).







The table below lists our assignments and their due dates, below it are the actual assignments:















Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1/10	1/11 Introductory Zoom Meeting	1/12 1.1,1.2, 1.3	1/13 Class meeting (1.1-1.3)	1/14 1.4, 1.5,1.6	1/15 Class meeting (1.4-1.6)	1/16 1.7
1/17 HW Due: 1.1- 1.6	1/18 MLK Holiday	1/19 1.8 and 2.1	1/20 Class meeting (1.7-1.8, 2.1)	1/21 2.2, 2.3, 2.4	1/22 Class meeting (2.2-2.4)	1/23 Prep for exam
1/24 HW Due:1.7- 1.8, 2.1-2.4	1/25 Exam in Class	1/26 2.6, 3.1, 3.2	1/27 Class meeting (2.6, 3.1-3.2)	1/28 3.4 and 3.5	1/29 Class meeting (3.4-3.5)	1/30 3.6 and 3.7
1/31 HW Due: 2.6, 3.1, 3.2, 3.4, 3.5	2/1 Class meeting (3.6-3.7)	2/2 4.1 and 4.2	2/3 Class meeting (4.1-4.2)	2/4 4.3 and 4.4	2/5 Class meeting (4.3-4.4)	2/6 4.5 and 4.6
2/9 HW Due: 3.6- 7,4.1-4	2/8 Class meeting (4.5-4.6)	2/9 Finance	2/10 Class meeting (Finance)	2/11 Exam Prep	2/12 HW Due: 4.5- 4.6, Finance due at exam Final Exam	2/13
















PDF of the schedule: [Mini-term Schedule 2021.pdf](#) 



[Netiquette Guidelines](#) | [Help & Technical Support](#) | [Technology & System Requirements](#) | [Canvas Student Guides \(https://community.canvaslms.com/community/answers/guides/content?filterID=contentstatus%5Bpublished%5D~category%5Bcanvas-student-guide%5D\)](#)






Course Summary:

Date	Details	
Mon Jan 11, 2021	 WK 1 Class Meeting 1 Zoom	to do: 2pm
Wed Jan 13, 2021	 WK1 Video Notes 1.1, 1.2 and 1.3 (https://canvas.pointloma.edu/courses/54360/assignments/590294)	due by 8am
	 WK 1 Class Meeting 2 Zoom	to do: 2pm
Fri Jan 15, 2021	 WK 1 Video Notes 1.4, 1.5 and 1.6 (https://canvas.pointloma.edu/courses/54360/assignments/590296)	due by 8am
	 WK1 Class Meeting 3 Zoom	to do: 2pm
Sat Jan 16, 2021	 WK1 Video Notes 1.7 (https://canvas.pointloma.edu/courses/54360/assignments/596321)	due by 11:59pm

Date	Details	
Sun Jan 17, 2021	 Section 1.6 Homework https://canvas.pointloma.edu/courses/54360/assignments/597071	due by 11:59pm
	 Section 1.1 Homework https://canvas.pointloma.edu/courses/54360/assignments/590264	due by 11:59pm
	 Section 1.2 Homework https://canvas.pointloma.edu/courses/54360/assignments/590265	due by 11:59pm
	 Section 1.3 Homework https://canvas.pointloma.edu/courses/54360/assignments/590266	due by 11:59pm
	 Section 1.4 Homework https://canvas.pointloma.edu/courses/54360/assignments/590267	due by 11:59pm
	 Section 1.5 Homework https://canvas.pointloma.edu/courses/54360/assignments/590268	due by 11:59pm
Wed Jan 20, 2021	 WK2 Video Notes 1.8 and 2.1 https://canvas.pointloma.edu/courses/54360/assignments/590297	due by 8am
	 WK 2 Class Meeting 4 Zoom	to do: 2:59pm
Fri Jan 22, 2021	 WK2 Video Notes 2.2, 2.3 and 2.4 https://canvas.pointloma.edu/courses/54360/assignments/590298	due by 8am
	 WK 2 Class Meeting 5 Zoom	to do: 2pm
Sun Jan 24, 2021	 Section 1.8 Homework https://canvas.pointloma.edu/courses/54360/assignments/597072	due by 11:59pm
	 Section 1.7 Homework https://canvas.pointloma.edu/courses/54360/assignments/590270	due by 11:59pm
	 Section 2.1 Homework https://canvas.pointloma.edu/courses/54360/assignments/590272	due by 11:59pm
	 Section 2.2 Homework https://canvas.pointloma.edu/courses/54360/assignments/590273	due by 11:59pm

Date	Details	
	 Section 2.3 Homework (https://canvas.pointloma.edu/courses/54360/assignments/590274)	due by 11:59pm
	 Section 2.4 Homework (https://canvas.pointloma.edu/courses/54360/assignments/590275)	due by 11:59pm
Mon Jan 25, 2021	 WK 3 Class Meeting 6 - Exam	to do: 2pm
	 Exam 1 (Submit Work Paper Here) (https://canvas.pointloma.edu/courses/54360/assignments/590247)	due by 3pm
Wed Jan 27, 2021	 WK3 Video Notes 2.6, 3.1 and 3.2 (https://canvas.pointloma.edu/courses/54360/assignments/590299)	due by 8am
	 WK 3 Class Meeting 7 Zoom	to do: 2pm
Fri Jan 29, 2021	 WK3 Video Notes 3.4 and 3.5 (https://canvas.pointloma.edu/courses/54360/assignments/590300)	due by 8am
	 WK 3 Class Meeting 8 Zoom	to do: 2pm
	 Section 2.6 Homework (https://canvas.pointloma.edu/courses/54360/assignments/590276)	due by 11:59pm
	 Section 3.1 Homework (https://canvas.pointloma.edu/courses/54360/assignments/590277)	due by 11:59pm
Sun Jan 31, 2021	 Section 3.2 Homework (https://canvas.pointloma.edu/courses/54360/assignments/590278)	due by 11:59pm
	 Section 3.4 Homework (https://canvas.pointloma.edu/courses/54360/assignments/590279)	due by 11:59pm
	 Section 3.5 Homework (https://canvas.pointloma.edu/courses/54360/assignments/590280)	due by 11:59pm
Mon Feb 1, 2021	 WK3 Video Notes 3.6 and 3.7 (https://canvas.pointloma.edu/courses/54360/assignments/590301)	due by 8am
	 WK 4 Class Meeting 9 Zoom	to do: 2pm

Date	Details	
Wed Feb 3, 2021	 WK 4 Video Notes 4.1 and 4.2 https://canvas.pointloma.edu/courses/54360/assignments/590290	due by 8am
	 WK 4 Class Meeting 10 Zoom	to do: 2pm
Fri Feb 5, 2021	 WK 4 Video Notes 4.3 and 4.4 https://canvas.pointloma.edu/courses/54360/assignments/596923	due by 8am
	 WK 4 Class Meeting 11 Zoom	to do: 2pm
Sun Feb 7, 2021	 Section 3.6 Homework https://canvas.pointloma.edu/courses/54360/assignments/590281	due by 11:59pm
	 Section 3.7 Homework https://canvas.pointloma.edu/courses/54360/assignments/590282	due by 11:59pm
	 Section 4.1 Homework https://canvas.pointloma.edu/courses/54360/assignments/590283	due by 11:59pm
	 Section 4.2 Homework https://canvas.pointloma.edu/courses/54360/assignments/590284	due by 11:59pm
	 Section 4.3 Homework https://canvas.pointloma.edu/courses/54360/assignments/590285	due by 11:59pm
	 Section 4.4 Homework https://canvas.pointloma.edu/courses/54360/assignments/590286	due by 11:59pm
Mon Feb 8, 2021	 WK 4 Video Notes 4.5 and 4.6 https://canvas.pointloma.edu/courses/54360/assignments/590291	due by 8am
	 WK 5 Class Meeting 12 Zoom	to do: 2pm
Wed Feb 10, 2021	 WK5 Video Notes Finance https://canvas.pointloma.edu/courses/54360/assignments/590292	due by 8am
	 WK 5 Class Meeting 13 Zoom	to do: 2pm
Fri Feb 12, 2021	 Finance Worksheet https://canvas.pointloma.edu/courses/54360/assignments/590263	due by 2pm

Date	Details	
	 Section 4.5 Homework (https://canvas.pointloma.edu/courses/54360/assignments/590287)	due by 2pm
	 Section 4.6 Homework (https://canvas.pointloma.edu/courses/54360/assignments/590288)	due by 2pm
	 WK 5 Class Meeting 14 - Exam Copy	to do: 2pm
	 Attendance Points (https://canvas.pointloma.edu/courses/54360/assignments/596969)	due by 3pm
	 Final Exam (Submit Work Paper Here) (https://canvas.pointloma.edu/courses/54360/assignments/590261)	due by 3pm