

Mathematical, Information and Computer Sciences
Shared Syllabus for Business Calculus

Section and Instructor Information					Office Hours	Table of Contents
1						Required Material Course Description General Education Statement Learning Outcomes Grading Policy Attendance Policy Academic Accommodations Academic Honesty Final Examination
2	Robert Compton RS 278 (619-849-7105) rcompton@pointloma.edu				<i>Robert Compton</i> T/H 10:00 am – 11:00 am 12:30 pm – 1:15 pm	
Section, Meeting Days, Time and Room					Online Text	
1	TR	1:30 pm – 2:45 pm	BAC	155	<i>Calculus and its Applications</i> 11 th Edition Bittinger/Ellenbogen/Surgent PEARSON ISBN: 978-0-321-97939-1	
2	TR	9:30 am – 10:45 am	BAC	155		

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.

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

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.

[Back to top](#)

Course Learning Outcomes

GE Learning Outcome: Students will be able to solve problems that are quantitative in nature:

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

[Back to top](#)

General Education Statement

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 General Education Program at Point Loma Nazarene University, under the category of *Developing Cognitive Abilities*. By including this course in a common educational experience for undergraduates, the faculty supports the pursuit of personal awareness and skill development, focusing on the analytical, communicative, and quantitative skills necessary for successful living in society.

[Back to top](#)

Grading Distribution

Grade Distribution	
Two Tests at 23% each	46%
Final Exam	30%
Quizzes	8%
Online Homework	8%
Written Homework	8%
Total	100%

[Back to top](#)

Grading Scale

A passing grade requires getting at least 60% in one of the two tests or on the final exam. Grades are based on the number of points accumulated throughout the course. Approximate minimal percentages required to obtain a given grade are:

Grading Scale in Percentages				
	A	B	C	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]

[Back to top](#)

Grade components

The grade components are written homework, written tests, online homework, online quizzes, and the final examination.

[Back to top](#)

Other factors that affect grades

Late work: All assignments are to be submitted/turned in by the beginning of the class session when they are due—including assignments posted in Canvas. Late work need not be accepted. Work accepted late may be assessed a penalty. Make-up tests will be given only by prior arrangement with the instructor for reasons of documented emergency.

Incomplete grade: Incompletes will only be assigned in extremely unusual circumstances. You may request a grade of I (incomplete) only if you are having a passing grade and at least 70% of the course work is completed.

Questions on written assignments, tests, and exams: Written assignments and test/exam questions and problems must be formulated carefully in terms of words and symbols used in the course. Credit is determined

by the degree to which answers and solutions respond to the specific question or problem stated. Maximize your credit by learning the language and symbols of the course.

Written Assignments: Assignments collected must be prepared in a style suitable for grading. The following guidelines are used to determine credit:

- the organization must be easy to follow
- the work must be legible
- complete solutions must be written for problems (not just answers);
- answers must be clearly marked use complete sentences to answer questions

Tests and Final Examination: 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 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 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. 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 student must contact each professor in order to work out an alternate time for one of those examinations. Department chairs/school deans and college deans need not be involved in the process of making this accommodation. Such accommodations and the negotiations necessary to arrange them must be completed at least four weeks prior to the official time of the final examination.

[Back to top](#)

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.

[Back to top](#)

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 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 [http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Class Attendance](http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Class_Attendance) in the Undergraduate Academic Catalog.

[Back to top](#)

You will receive a warning if you miss 10% of the class (combination of face-to-face and online). You will be automatically de-enrolled if you miss 20% of the class (combination of face-to-face and online).

[Back to top](#)

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.

[Back to top](#)

Academic Accommodations

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 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.

[Back to top](#)

Academic Honesty

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

http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Academic_Honesty for definitions of kinds of academic dishonesty and for further policy information.

[Back to top](#)

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.

[Back to top](#)

THE FINAL EXAM IS A COMPREHENSIVE EXAMINATION.

Successful completion of this class requires taking the final examination on **Tuesday December 17th 1:30-4:00**. The final exam date, time and place 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.

[Back to top](#)

Daily Schedule

Week	Date	Section	Written Homework	Due Date	Online HW	Due Date	Online Quiz	Due Date
1	9/5/19	1.1	73, 81, 82	The due date of the written Homework will be at the start of class the following week.				
2	9/10/19	1.2	73					
2	9/10/19	1.3	28, 29, 30, 33, 44, 45					
2	9/12/19	1.4	35, 36		1	9/13/19		
2	9/12/19	1.5	94					
3	9/17/19	1.6	35, 56, 60					
3	9/17/19	1.7	71, 72, 73, 75, 76		2	9/20/19	1	9/20/19
3	9/19/19	2.1	87, 88					
3	9/19/19	2.2	57, 59, 60					
4	9/24/19	2.4	97, 101, 102, 103, 104					
4	9/24/19	2.5	29, 32, 37, 42, 43		3	9/27/19		
4	9/26/19	2.6	5, 17, 18, 25					
4	9/26/19	2.6						
5	10/1/19	2.7	11, 12					
5	10/1/19	2.7						
5	10/3/19	2.8	33, 34, 37					
5	10/3/19	2.8			4	10/11/19	2	10/11/19
6	10/8/19		Review					
6	10/8/19							
6	10/10/19		Exam 1 (1.1 - 1.7, 2.1 - 2.5)					
6	10/10/19							
7	10/15/19	3.1	81, 82, 85, 86					
7	10/15/19	3.1						
7	10/17/19	3.2	92, 96					
7	10/17/19	3.2						
8	10/22/19	3.3	9, 12, 21, 24, 31					
8	10/22/19	3.3			5	10/28/19		
8	10/24/19	3.4	26, 27, 30, 31, 33					
8	10/24/19	3.4			6	11/1/19		
9	10/29/19	3.5	37, 42, 43					
9	10/29/19	3.6						
9	10/31/19	3.6	23, 24, 27, 29, 35					
9	10/31/19	3.6			7	11/8/19	3	11/8/19
10	11/5/19	4.1	61, 62, 63, 65, 66					
10	11/5/19	4.1						
10	11/7/19	4.2	2, 3, 19, 20					
10	11/7/19	4.2						
11	11/12/19	4.3	59, 60, 61, 63, 64					
11	11/12/19	4.3			8	11/15/19		
11	11/14/19	4.4	45, 48					
11	11/14/19	4.4						
12	11/19/19		Review					
12	11/19/19							
12	11/21/19		Exam 2 (2.6 - 2.8, 3.1 - 3.6, 4.1 - 4.3)					
12	11/21/19							
13	11/26/19	4.5	87, 88					
13	11/26/19	4.5			9	11/29/19		
13	11/28/19	No Class	Thanksgiving					
13	11/28/19							
14	12/3/19	4.6	39, 40					
14	12/3/19	4.6			10	12/6/19	4	12/6/19
14	12/5/19	5.1	15, 16					
14	12/5/19	5.1						
15	12/10/19	5.2	22, 23, 27, 34					
15	12/10/19	5.2			11	12/13/19	5	12/13/19
15	12/12/19	Finance						
15	12/12/19	Finance						
16	12/16/19							
16	12/17/19		Final Exam at 10:30 am					
16	12/18/19							
16	12/19/19							
16	12/20/19							

[Back to top](#)

Written Homework Problems

These assignments are to be written up on paper and handed in at the beginning of class on (or before) the due date.

Homework Policy:

1. A written 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.
2. Please be sure that your homework is stapled together and the problems are in order.
3. Written homework will be scored on a combination of completeness and correctness. All work necessary to complete a problem must be shown to earn credit.
4. Start working on all assignments early. These problems are difficult and are meant to be done a little at a time over the course of a few days.
5. When doing homework, please note it is normal to not be able to do every problem correctly on the first attempt. Do not be discouraged, instead seek help.