

# Point Loma Nazarene University

Department of Mathematical, Information and Computer Sciences

**MTH164-1** Calculus I  
**Class Time** MWF 8:30 am – 9:25 am F 7:25 am – 8:20 am  
**Location** **RLC 108**  
**Instructor** Jesús Jiménez, Ph.D.  
**Office** RS 218  
**Phone** 619-849-2634  
**Email** jjimenez@pointloma.edu  
**Office Hours** MTW 1:15 pm – 3:15 pm or by appointment

**Textbook** Calculus, 8<sup>th</sup> Edition by James Stewart

**Exam 1** **9-27-2017**

**Exam 2** **10-25-2017**

**Exam 3** **11-29-2017**

**Final Exam** **Monday, Dec 12 @ [7:30 - 10:00 AM]**

**Partial Exams Policy** Make-up tests (or the exam) will be given only by arrangement prior to the test (exam) scheduled date with the instructor for reasons of documented emergency.

**Final Exam Policy** Successful completion of this class requires taking the final examination **on its scheduled day**. The final examination schedule is posted on the [Class Schedules](#) site. No requests for early examinations or alternative days will be approved.

| <b>Grade Distribution</b>             |             |               |  |
|---------------------------------------|-------------|---------------|--|
| Three partial exams @ 150 points each | 450         | points        |  |
| Final Exam                            | 300         | points        |  |
| Homework                              | 150         | points        |  |
| Labs                                  | 100         | points        |  |
| <b>Total</b>                          | <b>1000</b> | <b>points</b> |  |

## Grading Scale

|   | A    | B    | C    | D    | F    |
|---|------|------|------|------|------|
| + |      | >86% | >76% | >66% | <59% |
|   | >90% | >83% | >73% | >63% |      |
| - | >88% | >80% | >70% | ≥59% |      |

## Course Requirements

Prerequisites  
 MTH123 or MTH133, or equivalent.

## Homework

Homework will be assigned during the week and it will be collected the following according to the schedule.

## Late Assignment Policy

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.

## Labs

Labs will be assigned on Fridays and collected the following Friday. There will be two lab exams (a midterm and a final).

## Final Exam

The Final Exam is a **COMPREHENSIVE** examination.

## Resources

Library, Computer Lab, Math Tutoring Center

**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**

Calculus of the elementary functions of one variable. Limits, continuity, derivatives, methods of integration and applications.

**COURSE LEARNING OUTCOMES FOR MTH164**

- Students will be able to demonstrate facility with analytical concepts.
- Students will be able to demonstrate facility with algebraic structures.
- Students will be able to use technology to solve problems.
- 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.
- Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand.
- Students will be able to gather relevant information, examine information and form a conclusion based on that information.
- Students will be able to understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats.

**GENERAL EDUCATION COURSE STATEMENT**

This course is one of the components of the General 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.

**GENERAL EDUCATION LEARNING OUTCOMES**

- 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

**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.

**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.

**ACADEMICS ACOMODATIONS**

If you have a diagnosed disability, please contact PLNU's Disability Resource Center (DRC) within the first two weeks of class to demonstrate need and to register for accommodation by phone at 619-849-2486 or by e-mail at [DRC@pointloma.edu](mailto:DRC@pointloma.edu). See [Disability Resource Center](#) for additional information. For more details see the PLNU catalog: [http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Academic Accommodations](http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Academic_Accommodations)  
Students with learning disabilities who may need accommodations should discuss options with the instructor during the first two weeks of class.

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

**DATE AND TIME FOR THE FINAL EXAM**

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.

**COPYRIGHT PROTECTED MATERIAL**

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 4 unit class delivered over 16 weeks. Specific details about how the class meets the credit hour requirements can be provided upon request.

## Homework and Daily Schedule

| Week | Day | Date     | Section | Homework   | Due      |
|------|-----|----------|---------|--|----------|
| 1    | Tue | 8/29/17  | 1.1     | 3, 8, 10, 13, 21, 23, 25, 32, 34, 43, 56, 64, 72, 75, 79                       | 9/1/17   |
|      | Wed | 8/30/17  | 1.2     | 2, 4, 5, 8, 11, 15, 20, 21, 27, 30, 31   | 9/1/17   |
|      | Fri | 9/1/17   | 1.3     | 2, 3, 4, 7, 15, 26, 29, 31, 41, 52, 56, 62, 66                                 | 9/6/17   |
| 2    | Mon | 9/4/17   |         | <b>No Class Labor Day</b>  |          |
|      | Wed | 9/6/17   | 1.4     | 1, 2, 5, 7   | 9/8/17   |
|      | Fri | 9/8/17   | 1.5     | 1, 3, 5, 7, 8, 11, 16, 17, 19, 33, 42, 50, 53                                  | 9/11/17  |
| 3    | Mon | 9/11/17  | 1.6     | 1, 2, 3, 5, 17, 24, 25, 34, 36, 41, 50, 66                                     | 9/13/17  |
|      | Wed | 9/13/17  | 1.7     | 1, 3, 7, 11, 19, 27, 32, 37, 44  | 9/15/17  |
|      | Fri | 9/15/17  | 1.8     | 2, 6, 8, 9, 10, 11, 21, 23, 34, 43, 44, 53, 67                                 | 9/18/17  |
| 4    | Mon | 9/18/17  | 2.1     | 3, 5, 9, 11, 14, 17, 22, 23, 33, 40, 48, 53, 59                                | 9/20/17  |
|      | Wed | 9/20/17  | 2.2     | 1, 3, 5, 7, 8, 11, 16, 17, 19, 33, 42, 50, 53                                  | 9/22/17  |
|      | Fri | 9/22/17  | 2.3     | 2, 5, 12, 18, 24, 26, 32, 32, 35, 47, 50, 51, 60, 61, 68, 73, 90, 94, 101, 105 | 9/25/17  |
| 5    | Mon | 9/25/17  |         | <b>Review for Exam 1</b>   |          |
|      | Wed | 9/27/17  |         | <b>Exam 1</b>  |          |
|      | Fri | 9/29/17  | 2.4     | 3, 7, 21, 28, 33, 37, 41, 42, 44   | 10/2/17  |
| 6    | Mon | 10/2/17  | 2.5     | 4, 7, 10, 12, 19, 24, 44, 53, 63, 65, 67, 68, 73, 80, 84                       | 10/4/17  |
|      | Wed | 10/4/17  | 2.6     | 3, 10, 18, 22, 25, 32, 44, 48, 49, 51, 56, 59                                  | 10/6/17  |
|      | Fri | 10/6/17  | 2.7     | 3, 5, 14, 20, 28, 29, 42, 49   | 10/9/17  |
| 7    | Mon | 10/9/17  | 2.8     | 1, 4, 7, 13, 17, 19, 23, 31, 39, 41, 42, 49                                    | 10/11/17 |
|      | Wed | 10/11/17 | 2.8     |  | 10/13/17 |
|      | Fri | 10/13/17 | 2.9     | 3, 5, 10, 13, 17, 25, 33, 38, 39, 41   | 10/16/17 |
| 8    | Mon | 10/16/17 | 3.1     | 3, 5, 9, 13, 17, 22, 31, 37, 47, 55, 65, 66, 70, 72                            | 10/18/17 |
|      | Wed | 10/18/17 | 3.2     | 1, 4, 5, 10, 11, 18, 19, 23, 28, 31, 35  | 10/23/17 |
|      | Fri | 10/20/17 |         | <b>No Class Fall Break</b>   |          |
| 9    | Mon | 10/23/17 |         | <b>Review for Exam 2</b>   |          |
|      | Wed | 10/25/17 |         | <b>Exam 2</b>  |          |
|      | Fri | 10/27/17 | 3.3     | 1, 5, 7, 8, 11, 20, 26, 30, 31, 58, 74   | 10/30/17 |
| 10   | Mon | 10/30/17 | 3.4     | 4, 5, 7, 13, 20, 24, 31, 33, 43, 44, 57, 61                                    | 11/1/17  |
|      | Wed | 11/1/17  | 3.5     | 1, 13, 22, 25, 29, 35, 42, 42, 55, 58  | 11/3/17  |
|      | Fri | 11/3/17  | 3.7     | 1, 3, 6, 9, 11, 21, 43, 47, 51, 78, 79   | 11/6/17  |
| 11   | Mon | 11/6/17  | 3.8     | 1, 4, 9, 11, 17, 24, 28, 32, 38, 40  | 11/8/17  |
|      | Wed | 11/8/17  | 3.9     | 1, 10, 13, 18, 21, 29, 37, 51, 58, 70  | 1/0/00   |
|      |     |          | 4.1     | 2, 5, 7, 13, 18, 19, 21, 24, 27  | 11/10/17 |
|      | Fri | 11/10/17 | 4.2     | 2, 4, 5, 8, 9, 15, 19, 27, 34, 38, 47, 52, 53, 60, 70                          | 11/13/17 |
| 12   | Mon | 11/13/17 | 4.3     | 2, 7, 11, 17, 19, 26, 27, 36, 42, 47, 52, 60, 66, 77                           | 11/15/17 |
|      | Wed | 11/15/17 | 4.4     | 1, 4, 7, 13, 24, 42, 45, 47, 52, 55, 57, 61, 65                                | 11/17/17 |
|      | Fri | 11/17/17 | 4.5     | 2, 6, 8, 17, 21, 28, 31, 38, 41, 44, 51, 58, 59, 66                            | 11/20/17 |
| 13   | Mon | 11/20/17 | 5.1     | 1, 6, 14, 23, 27, 29, 31, 33, 35, 40, 42, 47, 50, 53                           | 11/27/17 |
|      | Wed | 11/22/17 |         | <b>No Class Thanksgiving Day</b>   |          |
|      | Fri | 11/24/17 |         | <b>No Class Thanksgiving Day</b>   |          |
| 14   | Mon | 11/27/17 |         | <b>Review for Exam 3</b>   |          |
|      | Wed | 11/29/17 |         | <b>Exam 3</b>  |          |
|      | Fri | 12/1/17  | 5.2     | 1, 4, 11, 15, 32, 40, 44, 45, 48, 49, 55, 62, 63, 71                           | 12/4/17  |
| 15   | Mon | 12/4/17  | 5.3     | 3, 7, 13, 18, 23, 29, 30, 33, 34, 38, 45, 48                                   | 12/6/17  |
|      | Wed | 12/6/17  | 5.5     | 1, 5, 7, 9, 15, 17, 20, 23   | 12/8/17  |
|      | Fri | 12/8/17  | 6.2     | 33, 41, 46, 86, 87, 90   | 12/13/17 |
|      |     | 12/8/17  | 6.4     | 4, 5, 6, 71, 72, 77, 78  | 12/13/17 |
| 16   | Fri | 12/13/17 |         | <b>Final Exam 7:30 am - 10:00 am (COMPREHENSIVE)</b>                           |          |

**Lab Calendar**

| <b>Week</b> | <b>Date</b> | <b>Activity</b> |  | <b>Week</b> | <b>Date</b> | <b>Activity</b>   |
|-------------|-------------|-----------------|--|-------------|-------------|-------------------|
| 1           | 1-Sep       | Coke            |  | 8           | 27-Oct      | Work 1            |
| 2           | 8-Sep       | Aids 1          |  | 9           | 3-Nov       | Work 2            |
| 3           | 15-Sep      | Aids 2          |  | 10          | 10-Nov      | Population        |
| 4           | 22-Sep      | Aids 3          |  | 11          | 17-Nov      | Finance 1         |
| 5           | 29-Sep      | Aids 4          |  | 12          | 24-Nov      | Finance 2         |
| 6           | 6-Oct       | Review          |  | 13          | 1-Dec       | Finance 3         |
| 7           | 13-Oct      | <b>Exam 1</b>   |  | 14          | 8-Dec       | <b>Final Exam</b> |