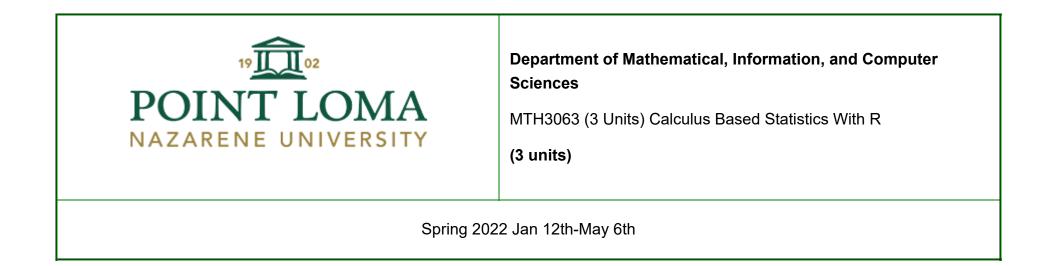


To-Do Date: Feb 7 at 11:59pm



	Instructor:	Email:	Phone:	Office Hours:
Section 1: MWF 8:30-9:25 Ryan LC 108	Dr. Robert Compton, Ph.D.	rcompton@pointloma.edu	619.849.2341	Posted in Canvas

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 3063 (3 Units) Calculus Based Statistics With R

A first course in descriptive and inferential statistics for general students who have taken calculus. Topics include experimental design, sampling and sampling distributions, estimation and hypothesis testing. This course also provides a basic introduction to statistical analysis in the statistical software package R. Not applicable toward a major in Mathematics.

Prerequisite(s): MTH 1044 or MTH 1064 or equivalent.

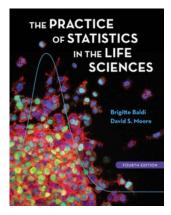
COURSE LEARNING OUTCOMES

1. Learning Outcomes

- 2. Students will be able to compute measures of central tendency for data.
- 3. Students will be able to compute measures of dispersion for data.
- 4. Students will be able to use statistical methods to make inferences from data.
- 5. Students will be able to apply their technical knowledge to solve problems.

REQUIRED TEXTS AND RECOMMENDED STUDY RESOURCES

Baldi and Moore: The Practice of Statistics in the Life Sciences, 4th Edition with Sapling Plus



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 fifteen 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.)

Category	Time Expectation in Hours
Reading Assignments	23.75
Videos and Notes	15
Online Homework	10
Weekly Class Participation	15
Written Assignments	39.25
Lab Participation	8.5
Exam	2.5
Final Exam	2.5

Distribution of Student Learning Hours

Category	Time Expectation in Hours	
Total Hours	116.5	

ASSESSMENT AND GRADING

Graded Components

- Notes and Videos: Every week there are some notes recorded from our online classes last year. Feel free to look at them to help understand any concepts you are having trouble with.
- Weekly Classwork: Attendance at the Monday and Wednesday in person class is required. In these class meetings, we will work on to work on activities and problems. Some classwork may be graded, and some you will get full credit just for attempting.
- **Online Homework**: This homework will be completed in Achieve, available through the online access key. You will have multiple attempts to complete each problem. I suggest you start before Friday and use our homework class day for any problems you are having trouble solving.
- Written Homework The homework is designed to allow you to grasp the concepts of Statistics; it is not an end in itself. The homework problems will be taken from the Textbook and hand written on paper. There may also be other activities that are completed as homework. Each homework set will usually be due one week from when it is assigned. Please see the schedule below. Late homework will not be accepted without prior consent or a well-documented emergency beyond your control. 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. Written homework that is submitted late without prior consent will be recorded with a score of zero. The lowest homework score will be dropped prior to computing the final course grade.

In the event that our in person class is prohibited from meeting in person in a given week, please scan or photograph the pages, and upload the file to Canvas as a .pdf, .jpg, .jpeg, .png, or .docx (but not Google Docs). If you take a photograph with your phone, then please turn off the setting for *Live Photos* or *Motion Photo* prior to taking the picture. If you use Google Docs, please export to a .pdf and upload that file.

Collected assignments 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
- Labs The labs will be posted in Canvas and are due in Canvas at the scheduled times (by 11:59 pm on Saturday). Up to a
 maximum of one Lab assignment will be accepted up to 3 days late provided that consent is received from the professor before it is
 due. Lab assignments that are submitted late without prior consent will be recorded with a score of zero.
- Examinations and the Final Examination There will be two Mid-Semester Examinations and a comprehensive Final
 Examination. Both Mid-Semester Examinations 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. The examination schedule is included in the
 daily schedule. The instructor will not accept excuses such as poor communication with parents, benefactors, surf team sponsors
 and/or travel agents. No examination shall be missed without prior consent or a well-documented emergency beyond your control.
 In such cases, all make-up exams will occur at 8:30 am on the Saturday between classes and Final Exam week. A score of zero
 will be assigned for an examination that is missed without prior consent or a well-documented emergency beyond your control.

Final Exam: Scheduled on Friday May 6, 2022 from 7:30 am -10:00 am. 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.

Grading Distribution	Percent
Weekly Participation	3
Online Homework	5
Written Homework	12
Labs	16
Exams (2 at 17% each)	34

Final Exam	30
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 Examination 1, Examination 2, or the Final Examination in order to pass the class. That is, a score of 60% must be achieved on one of the Examinations, 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					
	Α	В	С	D	F
+		[87.5-90.0)	[77.5- 80.0)	[67.5- 70.0)	
	[92.5 -100]	[82.5-87.5)	[72.5- 77.5)	[62.5 -67.5)	[0.0-60.0)
_	[90.0- 92.5)	[80.0-82.5)	[70.0- 72.5)	[60.0- 62.5)	

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 <u>Academic Policies</u> (<u>http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278)</u> for definitions of kinds of academic dishonesty and for further policy information.

PLNU ACADEMIC ACCOMMODATIONS POLICY

PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities. Students with disabilities may request course-related accommodations by contacting the Educational Access Center (EAC), located in the Bond Academic Center (EAC@pointloma.edu (mailto:EAC@pointloma.edu) or 619-849-2486). Once a student's eligibility for an accommodation has been determined, the EAC will issue an academic accommodation plan ("AP") to all faculty who teach courses in which the student is enrolled each semester.

PLNU highly recommends that students speak with their professors during the first two weeks of each semester/term about the implementation of their AP in that particular course and/or if they do not wish to utilize some or all of the elements of their AP in that

course.

Students who need accommodations for a disability should contact the EAC as early as possible (i.e., ideally before the beginning of the semester) to assure appropriate accommodations can be provided. It is the student's responsibility to make the first contact with the EAC.

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 <u>Academic Policies</u> <u>(http://catalog.pointloma.edu/content.php?</u> <u>catoid=18&navoid=1278)</u> 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 <u>Office of Spiritual Development</u> (https://www.pointloma.edu/offices/spiritual-development)

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 <u>State Authorization (https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures)</u> to view which states allow online (distance education) outside of California.

Spring 2022 Tentative Class Schedule - Subject to Change

Week	Monday	Wednesday	Friday/Saturday
1	1/11 (Tuesday meeting)	1/12	1/14-get achieve and R/Excel
	Introduction/Welcome	Ch 1 & 2 Intro	Intro Lab
2	1/17	1/19	1/21
	MLK Day – No Class	Class Activity Ch 1 & 2	Lab 1 and OHW Ch 1,2
3	1/24	1/26 WHW Ch 1,2	1/28
	Intro Ch 3,4,5	Class Activity Ch 3, 4,5	OHW Ch 3, 4, 5
4	1/31	2/2 WHW Ch 4,5,6	2/4
	Intro Ch 6, 7	Class Activity Ch 6,7	OHW Ch 6,7
5	2/7	2/9 WHW Ch 8.9	2/11
	Intro Ch 9, 10, 11	Class Activity Ch 9, 10, 11	Lab 2 and OHW Ch 8, 9, 10
6	2/14	2/16 WHW Ch 9, 10, 11	2/19
	Intro Ch 13	Class Activity Ch 13	OHW Ch 13
7	2/21	2/23 WHW Ch 13	2/26
	Review	EXAM I	Lab 3
8	2/28	3/2	3/4
	Intro Ch 14	Class Activity Ch 14	OHW Ch 14
	3/7 Spring Break		
9	3/14	3/16 WHW Ch 14	3/18
	Intro Ch 15	Class Activity Ch 15	OHW Ch 15
10	3/21	3/23 WHW Ch 15	3/25
	Intro Ch 17	Class Activity Ch 17	Lab 4 and OHW Ch 17
11	3/28	3/30 WHW Ch 21, 27	4/1
	Intro Ch 18 & 24	Class Activity Ch 18 & 24	OHW Ch 18 & 24
12	4/4	4/6 WHW Ch 18 & 24	4/8
	Review	EXAM II	Lab 5
13	4/11	4/13	4/15 Easter Holiday- No Class
	Intro Ch 19, 20	Class Activity Ch 19,20	OHW Ch 19,20
14	4/18	4/20 WHW Ch 19, 20	4/22
	Easter Holiday- No Class	Intro Ch 22	Lab 6
15	4/25	4/27 WHW Ch 22	4/30
	Class Activity Ch 22	Final Exam Review	Lab 7 and OHW Ch 22
Finals			5/6 7 :30 AM – 10 AM
Week			FINAL EXAM