

➔ Get Started

☰ Syllabus

# Welcome to MATH 1319: Mathematics for Business and Economics I

## New to the course?

- Be sure to familiarize yourself with the [Syllabus](#) and *review the information carefully*. To succeed in this course, please fill out your [Course Pacing Guide](#) and take no more than **7 days** from when you enroll to submit it via Modules.
- Click [Get Started](#) to begin your course.

**Returning to the course?** Click **Modules** to the left and resume where you left off.

## **Important reminders:**

- This is a **6-month, online, correspondence self-paced course**.
- **All submissions, including exams, must be completed by the course expiration date.** When you registered for the course, you were sent an email to your Texas State account indicating registration and expiration dates.
- You may submit only **one assignment per week** unless you receive explicit permission otherwise from your instructor.
- **You may not submit an assignment before previously submitted assignments have been graded and returned.**

**At the end of the course, you will be asked  
to complete a brief course evaluation.  
Your input will help improve the course.**

# Contact Your Instructor/ODEL

## Instructor

Even though this is a correspondence course, you are encouraged to contact your instructor, Shawn Peterson, at [mp54@txstate.edu \(mailto:mp54@txstate.edu\)](mailto:mp54@txstate.edu) if you have any concerns, questions, or problems.

Any email received between Monday morning and Friday at noon will receive a reply within 48 hours, except during holiday breaks or announced away times. Emails received between Friday at noon and Sunday night will receive a reply within 48 hours of the next business day.

***To ensure timely delivery of all e-mails related to this course, you must use your official Texas State Bobcat Mail email address.***

## Office of Distance and Extended Learning (ODEL)

Email: [corrstudy@txstate.edu \(mailto:corrstudy@txstate.edu\)](mailto:corrstudy@txstate.edu)

When you are ready to take an exam, you must [submit a request to take a proctored exam](#).

# Correspondence Course Information

As a correspondence studies student, it is your responsibility to be familiar with correspondence-related policies and services. To this end, I encourage you to review the [Correspondence Course Information page](#) as well as the [Correspondence Studies website](#).

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## Orientation Video

Please view [this orientation video](#) to help you get started in this correspondence course. This video addresses many topics such as Bobcat Mail, navigating this course site, test requests, and more.

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## Online Student Resources

[This webpage](#) contains multiple resources for online students at Texas State University. Note: Some resources are only available to students who pay a student service fee.

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Click Next to proceed to Technical Requirements and Support.

# Course Syllabus

## MATH 1319 Mathematics for Business and Economics I

### INSTRUCTOR

Mr. Shawn Peterson

[mp54@txstate.edu](mailto:mp54@txstate.edu)

### COURSE DESCRIPTION

This course covers topics from college algebra and economics including applications of equations and inequalities, simple and compound interest and annuities. Prerequisite: Math 1311 with a grade of CR, or a grade of C or higher, ACT Mathematics score of 21 or more, SAT Mathematics score of 480 or more, Accuplacer College Mathematics score of 63 or more, Compass Algebra score of 66 or more.

### COURSE GOALS

Upon completion of this course, the student will be able to

1. solve polynomial and rational equations and inequalities;
2. operate with polynomial, exponential and radical expressions;
3. explain the concept of linear function and linear models;
4. solve systems of linear equations and applications using systems of equations;
5. solve business applications using the graphical approach to linear programming;
6. apply the mathematics of finance (simple and compound interest, annuities and amortization); and
7. translate the basics of sets, probabilities, and combinatorics.

### COURSE MATERIALS

The textbook for this course is:

Barnett, R., Ziegler, M.R., Byleen, K.E. *College Mathematics for Business, Economics, Life Sciences, and Social Sciences*. 13th edition. (Pearson, 2011). ISBN: 978-0-321-94551-8.

The text can be purchased on Amazon.

Graphing Calculator: You will be allowed to use a graphing calculator *with memory cleared* on the exams. You may use one of the following calculator models:

- TI-73 Explorer
- TI-80
- TI-81
- TI-82
- TI-83
- TI-83+/83+ Silver/84+/84+ Silver
- TI Nspire

- TI-85
- TI-86
- TI-89/89 Titanium
- Casio - any model Casio graphing calculator

## **ASSIGNMENTS, ASSESSMENTS, AND GRADING**

Final grades are determined by performance on six assignments, a midcourse exam, and the final exam.

The course grade is determined as follows:

- Assignments: 20%
- Midcourse Exam: 40%
- Final Exam: 40%

*You may submit only one assignment per week, unless you receive explicit permission otherwise from me. Furthermore, you must wait to receive feedback and a grade on submitted assignments before you can submit subsequent assignments. You may not resubmit an assignment after it has been graded.*

*Your average score for the midcourse and final exams must be 60% or better to pass the course. Exams must be taken at an approved testing site. Refer to the [Correspondence Testing webpage](#) for information on arranging for a proctor.*

The final letter grade for the course is based upon the following percentages:

A; 89.6%-100%

B: 79.6%-89.5%

C: 69.6%-79.5%

D: 59.6%-69.5%

F: 0%-59.5%

## **COMMUNICATION POLICY**

Even though this is a correspondence course, I encourage you to contact me if you have any concerns, questions, or problems. You are welcome to e-mail me at [mp54@txstate.edu](mailto:mp54@txstate.edu). My policy is that during non-holiday breaks or announced away times, any email I receive between Monday morning and Friday at noon will receive a reply within 48 hours. Emails received between Friday at noon and Sunday night will receive a reply on the next business day.

Email is also the most reliable way for the instructor to reach you since all Texas State students have an email address provided by the university. I know that many people today prefer other forms of social media, but not all students have universal access to those systems. It is your responsibility to check your email messages every day for information about the course.

## **SCHEDULING YOUR TIME**

To some extent you can set your own pace in a correspondence course, but it is important that you schedule your time effectively. You should be able to complete each module, along with the quiz and assignment for each module, within two weeks, so completing the course in four to five months is quite

possible if you carefully budget your time. Online courses are just as time intensive as traditional courses. In fact, many students claim that online courses require more time and commitment. As you begin this course, you would be wise to schedule eight or more hours per week for studying materials and completing assignments. Remember, you have a maximum of six months to complete this course.

Download and complete the [Course Pacing Guide](#) to create a tool that will help you proceed through the course in a timeline manner. Submit your completed pacing guide via Modules within 7 days of enrolling in the course or as soon as possible.

## **STUDENTS REQUIRING ACCOMMODATIONS**

The Office of Distance and Extended Learning is committed to helping students with disabilities achieve their educational goals.

A disability is not a barrier to correspondence study, and we provide reasonable accommodations to individuals in coursework and test taking.

Students who require special accommodations need to provide verification of their disability to the [Office of Disability Services](#), Suite 5-5.1 LBJ Student Center, 512.245.3451 (voice/TTY).

Students should then notify the [Office of Distance and Extended Learning](#) at [corrstudy@txstate.edu](mailto:corrstudy@txstate.edu) of any disability-related accommodation needs as soon as possible to avoid a delay in accommodations.

## **FREE TUTORING RESOURCES**

A variety of free tutoring resources are available for students enrolled in correspondence courses. You may access tutoring through Tutor.com by clicking on Tutor.com: 24/7 Online Tutoring in the left menu of this course. Then just respond to the questions to start tutoring. If you need help with writing specifically, then choose Writing as your topic.

Free online tutoring for writing-related assignments is also available from the University Writing Center. For information on accessing these resources, please visit the Office of Distance and Extended Learning's [Free Tutoring](#) page. Currently-enrolled, degree-seeking students able to visit the Texas State campus are eligible for free in-person tutoring from the [Student Learning Assistance Center \(SLAC\)](#) on the fourth floor of Alkek Library

## **ACADEMIC HONOR CODE**

The [Texas State Academic Honor Code](#) applies to all Texas State students, including correspondence students. The [Honor Code](#)

# Students Requiring Accommodation Through the Office of Disability Services

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Click Next to proceed to Tips for Success.



Click Next to proceed to Academic Integrity.

# Free Tutoring Resources

A variety of [free tutoring resources](#) are available for students enrolled in Texas State correspondence courses.



## FREE TUTORING



## University Writing Center

The Texas State University Writing Center's online tutoring service allows Texas State correspondence, self-paced study students, to work with a writing tutor in real time in an online environment. During the online tutorial, both the student and the tutor are

# Academic Integrity

## Texas State Academic Honor Code

The [Texas State Academic Honor Code](#) applies to all Texas State students, including correspondence students. The [Honor Code](#) serves as an affirmation that the University demands the highest standard of integrity in all actions related to the academic community. As stated in the [Texas State Student Handbook \(https://, Violation of the Honor Code\)](#) includes, but is not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials.

## Definitions

*As stated per [Texas State Honor Code, UPPS No. 07.10.01, Issue no. 8](#).*

\*Please note that not all activities that constitute academic misconduct are listed in specific detail in [UPPS No. 07.10.10, Honor Code upps-07-10-01](#). It is expected that students will honor the *spirit* of academic integrity and will not place themselves in the position of being charged with [academic misconduct](#).

Please cite all unoriginal material through the use of [standard bibliographical practice](#) explained through the [Alkek library site](#).

Incidents of [academic dishonesty as outlined by the University](#) will be reported to the administration for disciplinary action. In addition, students will receive a 0 for the assignment or assignments without the opportunity to redo the work.

Academic work signifies outcomes and products such as essays, theses, reports, exams, tests, quizzes, problems, assignments, or other projects submitted for purposes of achieving learning outcomes.

Cheating in general means, but is not limited to, engaging or attempting to engage in any of the following activities:

- Copying from another student's test paper, laboratory report, other report, computer files, data listing, programs, or from any electronic device or equipment;

- Using, during a test, materials not authorized by the person giving the test;
- Collaborating, without authorization, with another person during an examination or in preparing academic work;
- Knowingly, and without authorization, using, buying, selling, stealing, transporting, soliciting, copying, or possessing, in whole or in part, the content of an unadministered test;
- Substituting for another student—or permitting another person to substitute for oneself—in taking an exam or preparing academic work;
- Bribing another person to obtain an unadministered test or information about an unadministered test;
- Purchasing, or otherwise acquiring and submitting as one's own work, any research paper or other writing assignment prepared by an individual or firm. This section does not apply to the typing of the rough or final versions of an assignment by a professional typist;
- Submitting the same essay, thesis, report, or another project, without substantial revision or expansion of the work, in an attempt to obtain credit for work submitted in a previous course;
- Falsifying data.

**Plagiarism** in general means, but is not limited to, the appropriation of another's work and the inadequately or inappropriately acknowledged incorporation of that work in one's own written, oral, visual or the performance of an original act or routine that is offered for credit.

**Collusion** in general means, but is not limited to, the unauthorized collaboration with another person in preparing any work offered for credit.

**Abuse of resource materials** in general means, but is not limited to, the mutilation, destruction, concealment, theft or alteration of materials provided to assist students in the mastery of course content.

Please cite all unoriginal material through the use of **standard bibliographical practice** as explained on the **Alkek Library site**

Incidents of academic dishonesty as outlined by the University will be reported to the administration for disciplinary action. In addition, students will receive a 0 for the assignment or assignments without the opportunity to redo the work.

## Notice of Intellectual Property Rights

The text and images on this page and pages linked to it are protected by **copyright**. Lectures and examination questions are also protected by copyright law. You are authorized to take notes in class and to use the online

materials provided, thereby creating derivative works from my lectures and other materials. However, this authorization extends only to making one set of notes or answers for your own personal use and no other use. You are not authorized to provide copies, notes or examination questions to anyone else, or to make any commercial use of them without prior written consent.

As stated per [Texas State Honor Code, UPPS No. 07.10.01, Issue no. 8](#)

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Click Next to proceed to Students Requiring Accommodation Through the Office of Disability Services.

serves as an affirmation that the University demands the highest standard of integrity in all actions related to the academic community. As stated in the [Texas State Student Handbook](#), [Violation of the Honor Code](#) includes, but is not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials.

**Syllabus (Printable)**

[Syllabus](#)

# Submission 1: Course Pacing Guide

Start Assignment

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**Due** No Due Date    **Points** 0    **Submitting** a file upload

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Download and add target dates to this [Course Pacing Guide](#).

Then click Submit Assignment and attach and submit your completed document.

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After you upload your document, click Next to proceed with the course.

# L1 Overview and Objectives

This lesson covers two topics:

- **Logic, Sets, and Counting:** Logic and sets form the foundation of mathematics. We use logic to formulate precise mathematical statements and make correct deductions. We use sets to build mathematical objects such as functions presented in Chapters 1 and 2 of the textbook, and the solutions sets of systems of equations and inequalities you will study in Chapters 4, 5, and 6.
- **Probability** is the likelihood that an event will take place. It is the ratio of the numbers of ways an event can occur to the number of possible outcomes. When probabilities are given a value, the "chance" that an event will happen is depicted numerically from 0 (0%; will not happen) to 1 (100%; will happen).

Upon completion of this lesson, you will be able to

- formulate precise mathematical statements and make correct deductions;
- use sets to build mathematical objects;
- examine logic and sets for use in determining probability;
- apply sets for basic counting principles;
- explain permutations and combinations;
- use counting techniques to assign probabilities to events; and
- examine situations in which probability is used to measure and manage risk.

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Click Next to proceed to L1 Reading: Logic, Sets, and Counting.



# L1 Reading: Logic, Sets, and Counting

In your textbook, read Chapter 7: Logic, Sets, and Counting, pages 354-377.

Once you have completed the textbook reading, read through the presentations below to review the material.

- [Presentation 7.2](#)

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Click Next to proceed to L1 Practice: Logic, Sets, and Counting.

# L1 Assignment 1: Logic, Sets, and Counting

New Attempt

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**Due** No Due Date      **Points** 100      **Submitting** a file upload

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Complete and submit the following problems:

- Chapter 7.2 , 7-47 odd
- Chapter 7.3, 7-43 odd
- Chapter 7.4, 7-51 odd

Write your answers on paper, scan them, and submit them as a .pdf file. Name your file as *LastNameFirstInitial\_Math1319Assignment#* (e.g. PetersonS\_Math1319Assignment1.pdf).

There are several ways to scan your assignment, including free applications that you can use on a smart phone, tablet, or your computer. To learn more, search online using a string such as "how to scan a document". If you need help, contact [corrstudy@txstate.edu](mailto:corrstudy@txstate.edu)

To submit your file, click Submit Assignment and then attach your file and click Submit.

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After you submit this assignment, click Next to proceed to L1 Reading: Probability.


# Technical Requirements and Support

This online course requires technical skills and access to certain technology and software that face-to-face courses may not require.

- Learn about [skills and technology](#) you need to be successful in this course.  
Also review these [tips](#) and [interaction guidelines](#) to be a successful online learner.
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Many users encounter fewer problems when they use [Chrome to access Canvas courses](#).

Here's how to **get help with Canvas**:

- 24/7 [Live chat](#)
- 24/7 Phone support: 245.ITAC (4822)
- [Tool-specific help](#)  [\\_\\_\\_\\_\\_](#)  
Click Help in the left navigation of any Canvas course
- 

**If you are new to Canvas**, click Student Guide in the left navigation of any course site to learn the basics.

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Click Next to proceed to Free Tutoring Resources.