

# 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

Textbook: Barnett, R., Ziegler, M.R., Byleen, K.E. *College Mathematics for Business, Economics, Life Sciences, and Social Sciences*. 12th edition. (Pearson, 2011). ISBN: 9780321614001.

Additional information about the textbook and related materials and resources can be found on the [Pearson website](#).

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.*

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 Course Information \(.pdf\)](#) page 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

According to “Seven Principles for Good Practice in Undergraduate Education,” faculty-student contact is very important. 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 by using the Email tool in the left-hand navigation menu. (It is important to keep all mail related to this course contained within this TRACS site.) 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.

If you have a question about course content or mechanics, you are encouraged to post it to the General Course Questions discussion forum (described below). Doing so gives students in the course an opportunity to interact with one another and allows everyone to benefit from answers to your questions. Of course, don't hesitate to email me directly if your concern is of a personal nature.

## Discussion Forums

You will find the following discussion forums in the course:

- **General Course Questions:** Post any questions or comments you may have about a topic, assignment, or technical issues to this forum. The instructor will monitor the forum

and respond to the questions. In that way, everyone will have the benefit of the question and answer.

- **Share and Tell:** Use this forum to celebrate your personal accomplishments, encourage each other, post inspirational quotes, etc.

The discussion forums are not graded, but are for your benefit. My role in the discussion groups is that of a facilitator, to answer questions, correct misconceptions and/or redirect conversations as needed.

## **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 nine months to complete this course. Use the [Course Study Schedule \(.pdf\)](#) to proceed through the course effectively.

## **TUTORING**

Need some help with the lesson assignment? Don't forget that free online tutoring for this course is available from Smarthinking. For information on accessing that tutoring, visit the Office of Distance and Extended Learning's [Free Tutoring](#) page. If you are a currently-enrolled, degree-seeking student able to visit the Texas State campus, free in-person math tutoring is available from the [Student Learning Assistance Center \(SLAC\)](#) on the fourth floor of Alkek Library and from the [Math Lab](#) in Derrick 233.

## **TRACS TECHNICAL SUPPORT**

Texas State's Information Technology Assistance Center (ITAC) provides phone and LiveChat technical support for TRACS 24 hours a day, seven days a week, 365 days a year. To take advantage of these services, visit [ITAC online](#) or call 512.245.ITAC (4822). Note also that a number of online TRACS tutorials are available from [TRACS Facts](#).

Before beginning this online course, it is recommended that you review the minimum hardware and software requirements and other important information available on the ITS [Course Information page](#).

## **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 \(.pdf\)](#) page as well as the [Correspondence Studies Student Handbook](#).

## **STUDENTS WITH SPECIAL NEEDS**

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 strive to 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](#) of any disability-related accommodation needs as soon as possible to avoid a delay in accommodations.

### **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 standards of integrity in all actions related to the academic community.