

# MATH 1319

## Mathematics for Business and Economics I

### INSTRUCTOR

Mr. Shawn Peterson  
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### 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. Email your completed pacing guide to the instructor 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 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](#) at [corrstudy@txstate.edu](mailto:corrstudy@txstate.edu) of any disability-related accommodation needs as soon as possible to avoid a delay in accommodations.

### **ACADEMIC INTEGRITY**

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. 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.