

# MATH 1324 Mathematics for Business and Social Sciences, Fall 2018

**Instructor:** Jason Groves **Office:** M107  
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**Phone:** 806-716-2739  
**Office Hours:** Tues: 10 am - 11 am, 1:45 pm - 3:45 pm,  
Thurs: 10 am - 11 am, 1:45 pm - 2:45 pm,  
Fri: 9 am - Noon  
or by appointment

**Prerequisites:** Successful completion of MATH 0320 or appropriate TSI Math score.

**Materials:** Mathematics with Applications by Lial, Hungerford, Holcomb, Mullins. Suitable writing instruments and paper for taking notes and completing assignments. Calculators with exponential and logarithmic functions are required. Graphing Calculators are permitted, but not required. Access to MyMathLab will be required for doing homework.

**Core Curriculum:** This course satisfies the following Core Objectives:  
Communication Skills:

- Develop, interpret, and express ideas through written communication
- Develop, interpret, and express ideas through oral communication
- Develop, interpret, and express ideas through visual communication

Critical Thinking:

- Generate and communicate ideas by combining, changing, and reapplying existing information
- Gather and assess information relevant to a question
- Analyze, evaluate, and synthesize information

Empirical and Quantitative Competency Skills:

- Manipulate and analyze numerical data and arrive at an informed conclusion
- Manipulate and analyze observable facts and arrive at an informed conclusion

**Expected Learning Outcomes:** At the end of this course, students should be able to competently perform the following:

1. Understand the concepts of function, domain, and range, and how they apply to real-world models.
2. Use and analyze linear, polynomial, rational, exponential and logarithmic functions to model real-world situations.
3. Use systems of equations and matrices and use them to solve applied equations and linear programs

4. Use exponential and logarithmic properties to solve finance problems, including compound interest, present and future values of annuities, and amortize loans.
5. Understand the basics of probability, including expected value and Markov Chains

IT IS THE RESPONSIBILITY OF THE STUDENT TO BE FAMILIAR WITH SOUTH PLAINS COLLEGE POLICIES. BELOW ARE ITEMS SPECIFIC TO THIS COURSE

**Assessment:** Grading will be done according to the standard 10 percent scale (i.e. 100% - 90% is an A, etc.) with assignments weighted as follows:

Homework/Quizzes	20%
Tests	60%
Final Exam	20%

**Class Attendance:** Students are responsible for the material covered in this course. A student missing two consecutive weeks of classes or 5 individual class days without continuing notification will be dropped from the course. Please note that new state laws only allow for 6 withdrawn courses total. This attendance policy only applies to *this* course.

**Homework:** MyMathLab will be used in this course. Extensions are not given except at the instructor's discretion.

**Quizzes:** Quizzes will be given as often as possible to assess classroom performance. They will begin at the start of class and last about 15 minutes. Quiz problems are taken directly from the homework assignments. Quizzes are not dropped and cannot be made up.

**Exams:** Midterm exams are given during this course. Questions will be similar to assigned homework problems. All exams are cumulative. During exams cell phones, smart-watches, laptops, and other such objects should be turned *off* and put away. There is no tolerance for violations. *Makeup exams are not given*

**Final Exam:** The final exam is comprehensive, and a required part of the course. Failure to attend the final exam results in an automatic F. If the final exam grade is better than the course average (which includes the final exam, as stated above), then the final exam grade will serve as the grade for the entire course. The Final Exam will take place Monday, May 6, at 5:30 pm

**Extra Credit:** Extra credit is offered to students who have shown adequate participation in the course. See document *Extra Credit Assignments* for details.

**Civility in the classroom:** Students are expected to assist in maintaining a classroom environment that is conducive to learning. Thus inappropriate use of cell phones, making offensive remarks, or engaging in any other form of distraction are not permitted. Infractions will be dealt with proportionally to the offense, and may include dismissal from that class period (which will count as an absence on your attendance record). Tobacco products are not permitted in the classroom.

**Honesty:** “Scholastic dishonesty” includes but is not limited to cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student. Incidents of academic dishonesty will be promptly reported and dealt with.

**Student Resources:** Students have access to tutoring in M116 on the Levelland campus, or Building 2 (rooms 206 and 208) on the Reese campus.

**Sexual Misconduct:** By law all faculty members are mandated reporters of any incidents of sexual misconduct. That means that faculty cannot keep information about sexual misconduct confidential if you share that information. Dr. Lynne Cleavinger, the Director of Health & Wellness, can advise you confidentially as can any counselor in the Health & Wellness Center. They can also help you access other resources on campus and in the local community. You can reach Dr. Cleavinger at 716-2563 or [lcleavinger@southplainscollege.edu](mailto:lcleavinger@southplainscollege.edu) or go by the Health and Wellness Center. You can schedule an appointment with a counselor by calling 716-2529.

**Campus Concealed Carry:** Campus Concealed Carry - Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the SPC policy at:

[http://www.southplainscollege.edu/human\\_resources/policy\\_procedure/hhc.php](http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php)

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

**ADA Compliance: Levelland Campus** Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance to federal law, a student requesting accommodations must provide acceptable documentation of his/her disability. For more information, call or visit the Disability Services Office in the Student Services Building, 806-716-2577.

**Reese Center and Lubbock Center** Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance to federal law, a student requesting accommodations must provide acceptable documentation of his/her disability. For more information, call or visit the Disability Services Office in Rooms 809 and 811, Reese Center Building 8, 806-716-4675.

date	Business Math	
01/14/19	Review	Ch. 1 (selected)
01/16/19	Review	2.1 - 2.3 (selected)
01/21/19	MLK Day	
01/23/19	Inequalities	2.4, 2.5
01/28/19	Intro to Functions	3.1, 3.2
01/30/19	Linear Functions	3.3
02/04/19	Quadratic Functions	3.4
02/06/19	Polynomial and Rational Functions	3.5, 3.6
02/11/19	Exam 1	Ch. 2, 3
02/13/19	Exponential Functions	4.1, 4.2
02/18/19	Logarithmic Functions	4.3, 4.4
02/20/19	Simple and Compound Interest	5.1, 5.2
02/25/19	Annuities and Sinking Funds	5.3
02/27/19	Present Value Annuities and Amortization	5.4
03/04/19	Exam 2	Ch. 2 - 5
03/06/19	Systems of Linear Equations	6.1 - 6.3
03/11/19	SPRING BREAK	
03/13/19	SPRING BREAK	
03/18/19	Matrix Operations	6.4, 6.5
03/20/19	Matrix Inverses and Input-Output Analysis	6.5, 6.6
03/25/19	Intro to Linear Programming	7.1-7.3
03/27/19	Simplex Method (Standard Maximization)	7.4, 7.5
04/01/19	Dual Method and Two-Phase Method (Minimization and Non-Standard Programs)	7.6, 7.7
04/03/19	Linear Programming Review	
04/08/19	Exam 3	Ch. 2 - 7
04/10/19	Sets and Data	8.1, 8.2
04/15/19	Probability	8.3, 8.4
04/17/19	Expected Value	9.1
04/22/19	EASTER BREAK	
04/24/19	Markov Chains	9.5
04/29/19	Exam 4	Ch. 2 - 9
05/01/19	Final Review	
05/06/19	FINAL EXAM	
05/08/19		

## Student Registration Instructions

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### To register for **Mathematics for Business and Social Sciences - MATH 1324-005-sp19** :

1. Go to [www.pearson.com/mylab](http://www.pearson.com/mylab) .
2. Under Register, select **Student** .
3. Confirm you have the information needed, then select **OK! Register now** .
4. Enter your instructor's course ID: [groves78359](#) , and **Continue** .
5. Enter your existing Pearson account **username** and **password** to **Sign In** .  
You have an account if you have ever used a MyLab or Mastering product.
  - » If you don't have an account, select **Create** and complete the required fields.
6. Select an access option.
  - » Enter the access code that came with your textbook or that you purchased separately from the bookstore.
  - » If available for your course,
    - Buy access using a credit card or PayPal.
    - Get temporary access.
7. From the You're Done! page, select **Go To My Courses** .
8. On the My Courses page, select the course name **Mathematics for Business and Social Sciences - MATH 1324-005-sp19** to start your work.

### To sign in later:

1. Go to [www.pearson.com/mylab](http://www.pearson.com/mylab) .
2. Select **Sign In** .
3. Enter your Pearson account **username** and **password**, and **Sign In** .
4. Select the course name **Mathematics for Business and Social Sciences - MATH 1324-005-sp19** to start your work.

### To upgrade temporary access to full access:

1. Go to [www.pearson.com/mylab](http://www.pearson.com/mylab) .
2. Select **Sign In** .
3. Enter your Pearson account **username** and **password**, and **Sign In** .
4. Select **Upgrade access** for **Mathematics for Business and Social Sciences - MATH 1324-005-sp19** .
5. Enter an access code or buy access with a credit card or PayPal.