

Office: B014 (Downtown Campus, Lubbock)

Office Hours:

- Monday - Thursday: Downtown Campus (**B014**) 9:30 AM – 10:30 AM
3:00 PM – 4:00 PM
- Friday Downtown Campus (**B014**) 10:00 AM – 11:00 AM
- Virtual or Face-to-Face meeting by appointment

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1325

Course Title: Calculus for Business and Social Sciences

Available Formats: conventional, hybrid, and internet

Campuses: Levelland, Downtown Center, and Dual Credit

Course Description: This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2313 or 2413, Calculus I.

Prerequisite: Successful completion with a grade of 'C' or better in MATH 1324 or MATH 1314.

Credit: 3 Lecture: 3 Lab: 0

Textbook: Textbook is not required

Supplies:

- A calculator is required for class, assignments and exams. The math department recommend TI-83+ or TI-84+, but many others are also acceptable
- Cell phones and similar devices may NOT be used as calculators.
- Paper, pencils, erasers and 3-ring binder.
- Access to smartphone or scanner (for uploading assignments).

Class Materials: Blackboard is the online course management system that will be utilized for this course. This course syllabus and all class materials can be accessed through Blackboard. Login at <https://southplainscollege.blackboard.com/>. Your user name and password should be the same as your MySPC and SPC email logins:

User name: first initial, last name, and last 4 digits of the Student ID

Password: Original Campus Connect Pin No. (found on SPC acceptance letter), unless already changed

Questions regarding Blackboard support may be emailed to blackboard@southplainscollege.edu or by telephone to 806-716-2962.

This course partially satisfies a Core Curriculum Requirement: Mathematics Foundational Component Area (020)

Core Curriculum Objectives addressed:

- **Communications skills**—to include effective written, oral and visual communication
- **Critical thinking skills**—to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Empirical and quantitative competency skills**—to manipulate and analyze numerical data or observable facts resulting in informed conclusions

Student Learning Outcomes: Upon completion of this course and receiving a passing grade, the student will be able to:

1. Apply calculus to solve business, economics, and social sciences problems.
2. Apply appropriate differentiation techniques to obtain derivatives of various functions, including logarithmic and exponential functions.
3. Solve application problems involving implicit differentiation and related rates.
4. Solve optimization problems with emphasis on business and social sciences applications.
5. Determine appropriate technique(s) of integration.
6. Integrate functions using the method of integration by parts or substitution, as appropriate.
7. Solve business, economics, and social sciences applications problems using integration techniques.

Student Learning Outcomes Assessment: A pre- and post-test questions will be used to determine the extent of improvement that the students have gained during the semester

Course Evaluation:

Assessment		Grading Scale	
Assignment (In-Class & Homework):	20%	90 – 100	A
Exams (4 total):	60%	80 – 89	B
Final Exam:	20%	70 – 79	C
		60 – 69	D
		Below 60	F

Assignment Format and Policy: Assignments are given after each lesson and are collected according to the tentative course schedule.

For Homework Assignments:

- Homework will be assigned daily to practice and fully understand each topic mentioned during the regular class period.
- It is available on the Blackboard.
- A student's homework will be given full credit if each problem is fully attempted.
- Points will be lost for incomplete attempts or missing work.
- Due dates will be posted on the Blackboard and/or Gradescope page.
- Students should submit the assignment in Gradescope as a single pdf file using the Gradescope app.

For In-Class Assignments:

- In solving the problem, show all detailed work.
- Clearly mark your answer.
- Check your answers in Blackboard to make certain you are practicing the exercises correctly.
- Write your name at the top of each page of your work.
- Submit the assignment in Gradescope as a single pdf file using the Gradescope app.
- Make certain to complete and submit assignments on time (or early).

Exam Format and Policy:

- There will be four-unit exams in this course.
- Exams must be taken at the days and times listed on the tentative course schedule.
- No make-up exams will be given.
- If exam missed due to college event, the exam grade will be replaced with the average of other exams.

Final Exam:

- The comprehensive final will be given on December 7th from 10:15 AM to 12:15 PM.
- No make-up final will be given.
- Any student who does not take the final exam will fail the classes with F's regardless of the student's average.

Attendance/Student Engagement Policy: Attendance and engagement are the most critical activities for success in this course. The instructor maintains records of the student's attendance

and submission of assignments throughout the semester. The student is expected to attend at least eighty percent (80%) of the **total** class meetings **and** submit at least eighty percent (80%) of the **total** class assignments to have the best chance of success. If the student fails to meet these minimum requirements, the instructor may remove the student from the class with an X, upon their discretion, to help the student from harming their GPA. If the student can not receive an X, the instructor will assign an F.

Plagiarism violations include, but are not limited to, the following:

1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain an unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

Student Code of Conduct Policy: Any successful learning experience requires mutual respect from the student and the instructor. Neither the instructor nor the student should be subject to others' rude, disruptive, intimidating, aggressive, or demeaning behavior. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title IX Pregnancy Accommodations, CARE Team, and Campus Concealed Carry, please visit <https://www.southplainscollege.edu/syllabusstatements/>.

South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here: <https://www.southplainscollege.edu/emergency/covid19-faq.php>.

SPC Bookstore Price Match Guarantee Policy: If you find a lower price on a textbook, the South Plains College bookstore will match that price. The difference will be given to the student on a bookstore gift certificate! The gift certificate can be spent on anything in the store.

If students have already purchased textbooks and then find a better price later, the South Plains College bookstore will price match through the first week of the semester. The student must have a copy of the receipt and the book has to be in stock at the competition at the time of the price match.

The South Plains College bookstore will happily price match BN.com & books on Amazon noted as *ships from and sold by Amazon.com*. Online marketplaces such as *Other Sellers* on Amazon, Amazon's Warehouse Deals, *fulfilled by Amazon*, BN.com Marketplace, and peer-to-peer pricing are not eligible. They will price match the exact textbook, in the same edition and format, including all accompanying materials, like workbooks and CDs.

A textbook is only eligible for price match if it is in stock on a competitor's website at time of the price match request. Additional membership discounts and offers cannot be applied to the student's refund.

Price matching is only available on in-store purchases. Digital books, access codes sold via publisher sites, rentals and special orders are not eligible. Only one price match per title per customer is allowed.

Note: The instructor reserves the right to modify the course syllabus and policies, as well as notify students of any changes, at any point during the semester.

MATH 1325 Tentative Class Schedule for Fall 2026

Week	Date	Topics
		Unit 1: Limits and Derivatives
1	8/24 – 8/28	1.1 Limits
2	8/31 – 9/04	1.2 One-Sided Limits and Limits Involving Infinity 1.3 Continuity
3	9/07 – 9/11	Labor Day Holiday (9/07) 1.4 Rate of Change
4	9/14 – 9/18	1.5 Tangent Lines and Derivatives
		Unit 2: Advanced Derivatives
5	9/21 – 9/25	2.1 Basic Derivative Rules
6	9/28 – 10/02	2.2 Derivatives of Products and Quotients 2.3 The Chain Rule
7	10/05 – 10/09	2.4 Derivative of Exponential and Logarithmic Function
8	10/12 – 10/16	2.5 Implicit Differentiation 2.6 Related Rate SPC Fall Break (10/16)
		Unit 3: Applications of the Derivatives
9	10/19 – 10/23	3.1 Elasticity of Demand
10	10/26 – 10/30	3.2 Local Extrema and the First Derivative Test 3.3 The Second Derivatives
11	11/02 – 11/06	3.4 Optimization Applications
		Unit 4: Integrations with Applications
12	11/09 – 11/13	4.1 Antiderivatives 4.2 Integration by Substitution
13	11/16 – 11/20	4.3 Integration by Parts 4.4 Area and the Definite Integral
14	11/23 – 11/27	4.5 The Fundamental Theorem of Calculus Thanksgiving Holiday (11/25 – 27)
15	11/30 – 12/04	4.6 Applications of Integrals Last day to drop Fall courses (12/03)
16	12/07 – 12/11	Final Exam Week

Exam 1:	Unit 1 – Limits and Derivatives	(Date: TBA)
Exam 2:	Unit 2 – Advanced Derivatives	(Date: TBA)
Exam 3:	Unit 3 – Applications of the Derivatives	(Date: TBA)
Exam 4:	Unit 4 – Integrations with Applications	(Date: TBA)
Final Exam:	Comprehensive (Unit 1- Unit 4)	(Date: 12/07, 10:15 AM – 12:15 PM)