

**Math 1325.201MTWR Syllabus**  
**Mathematics for Business, Economics, Life and Social Sciences**  
**Summer I 2022**

Room - RC 221

6pm – 7:55pm Mondays through Thursdays

**Instructor:** Mrs. Morgan Groves

**Office Hours:** By appointment only

**Email:** mgroves@southplainscollege.edu

**Office:** 223F – Reese Building 2

**Office Phone:** 716-2735

### Course Structure

- Flipped course
  - Watch lecture video (Blackboard) and fill in notes **before** class each day.
  - Students provide questions in class to discuss and solidify topics over the lesson(s).
  - Homework is to be attempted before class, also, but will not be due that day.
  - Assessments, such as labs, quizzes, and exams, will all be done in class.
  - All students are expected to be physically in class unless given explicit permission to be virtual.

### Textbook

- No book for this section.

### Course Requirements/Materials

- Attend all classes with notes and homework done in advance.
- All graded assessments assigned in class are expected to be completed in the allotted class time, unless otherwise instructed by the professor.
- Reliable internet access
- Printer (for notes), but notes can be done electronically (tablet/ipad) as long as they are written by hand
- Smart phone and/or scanner to turn a written document into a PDF file

<b>Grading:</b>	Tests (3 total)	50%	<u>Grading Scale:</u>	A 90-100
	Daily Participation	5%		B 80-89
	Labs	10%		C 70-79
	Quizzes	15%		D 60-69
	Final Exam	20%		F 59 or below

**\*\*\*Note:** Students must justify answers or show work on all problems to receive full credit.

### Class Notes

- Found on Blackboard under Course Content.
- Should be completed by each student (hand-written) using lecture videos provided on Blackboard.
- Bring all notes to class each day (2-3 in binder recommended)

### Lecture Videos

- Found on Blackboard under Course Content.
- Watch and fill in the notes, pausing often to allow for processing time.
- Organize your questions to bring to class the next day.

### Homework

- Written assignments
- Use your own paper
- Must be done by hand (no typing)
- Show all work to receive credit!!
- Must be your own work!
- Turn in by due date found on the Tentative Calendar at end of syllabus.
- Using PhotoMath (or similar) is strictly prohibited and will result in academic dishonestly reports being submitted to your permanent record.

### Labs

- Daily, as time allows
- Can use notes
- If notes were not done before class and/or were not brought to class, the student forfeits the right to ask for help on the lab assignment that day.
- Complete in allotted class time.

### Quizzes

- 3x5 hand-written (by student) note card allowed
- Completed before the end of the class that day

### Tests

- 3 midterm exams and 1 comprehensive final exam
- No notes/homework/textbooks will be allowed on ANY exam
- Complete in the allotted class time
- No exam grades will be dropped.
- It is in your best interest to save ALL graded documents until your final grade is assigned at the end of the term.
- Exams may be comprehensive.

### Final Exam

- Comprehensive
- Any student who does not take the final exam will fail the class with an F regardless of the student's average.
- No make-up final exam will be offered.
- **Friday, July 8th at the regular class time.**

### Late work

- Late work is not accepted.
- If you do not turn in an assignment on time, you will receive a zero for that assignment.

### Office Hours

- To benefit students, to give them a chance to get some extra help whenever needed.
- I strongly encourage each student to utilize as many office hours as possible.
- During summer terms, office hours are by appointment only. To make an appointment, email the instructor to request a time.

### Attendance Policy

- Attend at least eighty percent (80%) of the **total** class meetings **and** submit at least eighty percent (80%) of the **total** class assignments.
- If the student fails to meet these minimum requirements, the instructor may remove the student from the class with an X, upon the discretion of the instructor.
- Be in the class room and on time for class each class
- Abuse of virtual component → instructor may drop the student from the course
- There are no excused absences, even with a doctor's note.
- 10+ minutes late or leave early without permission → 25% off participation grade
- Falling asleep during class or leaving class for extended period of time, as determined by the instructor → 25% or more of their participation grade lost for that day.

### Participation Grade

- Daily participation grade.
- 33.3% attendance to/participation in class
- 33.3% for being prepared with notes by watching the lecture video(s) prior to class, completing the lecture notes properly, and uploading them to Blackboard prior to class.
- 33.3% for being prepared with all homework being attempted/completed prior to class.
- If there are any questions that students must answer in the lecture videos, the completion of these questions will be part of the participation grade (Preparedness/Notes) as well.
- In the event you are absent during class, you will get 0 pts for the Attendance/Promptness portion of this grade for that day, even if you have a doctor's note.

### Class Participation

	<b>Unacceptable 0 points</b>	<b>Acceptable 0.15 points</b>	<b>Exemplary 0.33 points</b>	<b>Score</b>
<b>Attendance/Promptness</b>	The student is absent	The student is more than 10 minutes late to class	The student is on time for class	
<b>Preparedness/Notes</b>	The student did not complete any lecture examples from the assigned videos	The student completed only a portion of the lecture examples completed on the assigned videos	The student completed <b>all</b> lecture examples in the lecture material	
<b>Preparedness/Homework</b>	Not started.	Partially started but not all problems have been attempted with measurable effort by the student by the start of class.	All homework problems have been attempted by the student with measurable effort.	
<b>Total Score</b> <b>Max = 1 point (100%)</b> <b>Min = 0 point (0%)</b>				

## Submitting Documents Online

- Students will be required to upload their completed notes to Blackboard.
- Single PDF file that is clear and legible
- Students are allowed to use whatever hardware/software they desire to create the PDF files, but here are a few suggestions:
  - App: **GeniusScan** – need a Google email to do this for free
  - App: **CamScanner** – limit on number of pages that can be compiled on the free version
  - Apple Phone – has a program on it already that will compile pictures into PDF files

## Academic Integrity

- Any student involved in cheating will receive a zero on the assignment(s) and will be informed of why he/she received a zero.
- Second offence: student will be dropped from the course and an academic dishonesty report will be filed against the student, which goes on the student's permanent school record.

## Calculators

- Need a graphing calculator!!
- I recommend a TI 84 series calculator.
- TI NSpires or Casios are NOT recommended unless you are an expert at using them, as the instructor will be of little help. If you plan to use one of these calculators, you should expect to do a lot of research into how to perform certain calculations.

## Make-up Work

- Make-up work is given at the discretion of the instructor.
- NO make-up labs, quizzes, or tests are given without prior notification AND proper documentation.
- If you are absent from class and have given prior notification and proper documentation of your absence, you **MUST** make arrangements to take the lab, quiz, or exam **BEFORE** the next class period.
- Students who do not take labs, quizzes, or exams in-class, early or late, forfeit the right to attempt any extra credit on that quiz or exam.

## Class Rules:

- Be on time and ready to learn. Students that are more than 10 minutes late will be counted tardy. If promptness becomes a regular issue, as deemed by the instructor, the student may be dropped from the class.
- Use only pencil or erasable pen on all graded hand-written assignments.
- Students are not permitted to use electronic devices, other than a calculator, in class. **Put the cell phones away!!**
- During testing, all cell phones should be placed on SILENT or turned off and placed on the table face down. All smart watches need to be removed and placed on the table face-down.
- Any student who leaves the classroom for any reason (bathroom, phone call, etc.) during an exam will not be allowed to continue the exam upon their return. Once you leave the classroom during an exam, you are done.
- Any student who falls asleep will be counted absent that day, and may be asked to leave.

- Any student who does not focus on the lesson and/or participate in the discussions will be counted absent that day, and may be asked to leave.
- Students are expected to help facilitate a positive learning environment. Any student that chooses to behave in such a way that takes away from the positive learning environment will be asked to leave that day. If the behavior continues, the student may be dropped from the class.
- Adhere to the requirements of the Student Code of Conduct.

### Virtual Students

- In the event you are joining class virtually, you are expected to stay active and attentive during the entire class.
- In the event of a lab, quiz, or test, you are expected to have your camera on and positioned in such a way as to allow the camera to catch both your face and your workspace.
- Keep your camera on until you have explicit permission from your instructor to turn it off.
- Your cell phone should be on silent, face down but in view of the camera during the entire assessment.
- Students are expected to follow the same testing/quizzes/lab rules as any student in class.
- If you leave the view of the camera during an assessment without explicit permission from the instructor, you will be given a 0 on the assessment.
- If you break any of the rules listed above, you will receive a 0 on the assessment.
- Keep your chat window on Blackboard Collaborate open during assessments as a way for the instructor to communicate (quietly) with each student.
- If the student does not keep their chat window visible to themselves during assessments and misses a message from the instructor, 15% credit will be deducted from that assignment's score.
- Students who are virtual for an assessment have been given explicit permission by the instructor to take the assessment in this format.
- If you are not given this permission, you are expected to be in class for each and every assessment (labs, quizzes, tests).
- Instructor permission is not given lightly nor liberally and the decision to allow a student to work virtually is entirely at the instructor's discretion.
- To submit work virtually, students must upload a single PDF document of their work using an app such as **GeniusScan**, or similar. It is the student's responsibility to ensure the document is legible and in the correct format.
- Any assignment not submitted in the correct format will be given a 0 on the assignment.
- Assignments will usually be uploaded to Blackboard, but can be e-mailed with instructor permission.

**South Plains College**  
**Common Course Syllabus: MATH 1325**  
**Revised August 2021**

**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, Reese, 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:** *Mathematics with Applications in the Management, Natural, and Social Sciences*, Lial, Hungerford, Holcomb, and Mullins, 2019, 12<sup>th</sup> Edition, Prentice Hall/Pearson Education

**Supplies:** Please see the instructor's course information sheet for specific supplies.

**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:** There will be departmental final exam questions given by all instructors.

**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 cannot 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.

**COVID Syllabus Statement:** It is the policy of South Plains College that as a condition of on-campus enrollment, all students are required to engage in safe behaviors to avoid the spread of COVID-19 in the SPC community. There will be no requirement for face coverings at any location on any South Plains College campus or classroom. Faculty, staff, or students may continue to wear a mask voluntarily, but there will be no requirements for face coverings in any circumstance. Students who believe they have been exposed or may be COVID-19 positive, must contact Health Services, DeEtte Edens, BSN, RN at (806) 716-2376 or [dedens@southplainscollege.edu](mailto:dedens@southplainscollege.edu).

**Student Code of Conduct Policy:** Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning. 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.

**Diversity Statement:** In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

**Disability Statement:** 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 with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

**Nondiscrimination Policy:** South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

**Title IX Pregnancy Accommodations Statement:** If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To [activate](#) accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact the Director of Health and Wellness at 806-716-2362 or [email rcanon@southplainscollege.edu](mailto:rcanon@southplainscollege.edu) for assistance.

**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 and Frequently Asked Questions, please refer to the Campus Carry page at: <http://www.southplainscollege.edu/campuscarry.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.

**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.

Tentative Calendar for Math 1325 Summer I, 2022					
Week	Day	Date	Topic	Units	Homework Due Date for Bonus Point(s)
1	Monday	June 6	Introduction and Syllabus		Prepare for tomorrow's class!!
	Tuesday	June 7	Limits One-Sided Limits & Limits Involving Infinity	1.1 – 1.2	June 8
	Wednesday	June 8	Rates of Change Tangent Lines & Derivatives	1.3 – 1.4	June 9
	Thursday	June 9	<b>Exam 1</b>	<b>Unit 1</b>	
2	Monday	June 13	Basic Derivative Rules & Marginal Analysis	2.1	June 14
	Tuesday	June 14	Product & Quotient Derivative Rules & Marginal Analysis	2.2	June 15
	Wednesday	June 15	The Chain Rule Derivatives of Exponential & Logarithmic Functions	2.3 – 2.4	June 16
	Thursday	June 16	Continuity & Differentiability Price Elasticity of Demand Case Study	2.5 & Case Study	June 20
3	Monday	June 20	Local Extrema & First Derivative Test	3.1	June 21
	Tuesday	June 21	The Second Derivative & The Second Derivative Test	3.2	June 22
	Wednesday	June 22	Optimization	3.3	June 23
	Thursday	June 23	Implicit Differentiation Related Rates	3.4 – 3.5	June 27
4	Monday	June 27	<b>Exam 2</b>	<b>Units 2 - 3</b>	
	Tuesday	June 28	Antiderivatives Integration by Substitution	4.1 – 4.2	June 29
	Wednesday	June 29	Integration by Parts	4.3	June 30
	Thursday	June 30	Area and the Definite Integral, FTC, Avg Value	4.4	July 5
5	Monday	July 4	<b>Holiday – 4<sup>th</sup> of July</b>		
	Tuesday	July 5	Area Between Curves Applications of Integrals	4.5 – 4.6	July 6
	Wednesday	July 6	<b>Exam 3</b>	<b>Unit 4</b>	
	Thursday	July 7	AMA	All	
	<b>Friday</b>	<b>July 8</b>	<b>Final Exam</b>	<b>Comprehensive</b>	

Last Day to Drop – June 30, 2022