

South Plains College
Common Course Syllabus: MATH 1332
Revised August 2020

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1332

Course Title: Contemporary Mathematics

Available Formats: conventional/flex and internet

Campuses: Levelland, Reese, Plainview, Lubbock Center and Dual Credit

Course Description: Intended for Non-STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered.

Prerequisite: Minimum score of 350 on the TSIA, TSI-exempt status, or a successful completion with a grade of 'C' or better in MATH 0337.

Credit: 3 **Lecture:** 3 **Lab:** 0

Textbook: *Mathematical Ideas*, Miller, Heeren, and Hornsby, 2019, 14th 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 the language and notation of sets.

2. Determine the validity of an argument or statement and provide mathematical evidence.
3. Solve problems in mathematics of finance.
4. Demonstrate fundamental probability/counting techniques and apply those techniques to solve problems.
5. Interpret and analyze various representations of data.
6. Demonstrate the ability to choose and analyze mathematical models to solve problems from real-world settings, including, but not limited to, personal finance, health literacy, and civic engagement.

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 effort are the most important activities for success in this course. The instructor maintains records of the student's engagement throughout the semester. The student will be allowed to miss twenty percent (20%) of class assignments for the semester, **for any reason**. Should this number be exceeded, the instructor has the right to drop the student with a grade of F or an X, depending on the instructor's discretion.

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: Should be provided by the Vice-President of Student Services over email.

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 cgilster@southplainscollege.edu](mailto:cgilster@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.

COURSE SPECIFIC INFORMATION FOR MATH 1332

Instructor: Phyllis Cormier

Email: pcormier@southplainscollege.edu

Office: Reese Center, Building 2 Rm 223B Phone: (806)716-2797

Office hours:

My office is room 223B. Appointments may be made to meet in person or virtual. You may make an appointment through email, in person, or by calling. If I do not respond to an email within 12 hours, please resend the message. If I am in my office, feel free to stop by without an appointment.

Class Structure: The class will meet in person 4 days per week. If you must miss class for any reason, the notes and videos are provided for you on Blackboard. You may attend virtually if a need arises. You must notify me at least 1 hour before class begins if you need to attend virtually.

Class Attendance: Attendance and effort are the keys to success in this class. Four missed assignments are allowed for the semester. If you exceed this number, you may be dropped from the course.

Assignments & Grading:

Practice Problems: Practice problems will be used as a study guide. Complete all practice problems to the best of your ability before class each day. Practice problems are on Blackboard with the solutions. Time will be given to ask questions each class day. These problem sets may be turned in with the lab for one bonus point if all work is shown in a neat and well-organized manner and all problems are attempted.

Labs: Labs consist of 5 -10 problems that will allow me to assess your understanding of the material. Answers are not provided for the labs. Labs will be completed in class without apps or websites but scientific calculators, notes, and practice problems may be used. Work must be shown to receive credit.

Lab Grades: Each lab is worth 10 points. Questions may be asked about the practice problems before the lab is distributed, but the labs are to be completed without assistance. **Work must be shown to receive credit.** These will be completed during class and cannot be made up. However, labs may be completed virtually. They will be made available when the students who are in class receive the lab and will be due at the end of class time. The best 10 out of 14 lab grades will be used to determine the final lab points.

Exams: You may use a scientific or graphing calculator on the exams but calculators on cell phones will not be permitted. Cell phones should be out of sight and not touched during exams. The use of any websites or apps during exams is considered cheating. You may bring a 3" X 5" notecard with formulas to use during the exam.

Make-up exams will not be available. If you miss an exam for any reason, the final exam will take the place of the missed exam. If you miss two exams, you may be dropped from the course. If you know you will need to miss an exam, let me know before the exam so an alternate testing time can be arranged **before** the exam is taken in class.

Check Blackboard and your SPC email often for any updates. Additional study aids may also be added.

You are responsible for completing practice problems, labs, and exams on time. Print out the course calendar and keep it with your other course material to help you keep up with deadlines.

There will be 4 exams including the final.

Determining Grades:

Labs (10 points each)	100 pts
Exam 1	100 pts
Exam 2	100 pts
Exam 3	100 pts
<u>Final Exam</u>	<u>100 pts</u>
Total	500 pts

Your accumulated points in the course will determine the letter grade posted on your transcript. Additional points for completed practice problems are not included in the total above but will contribute to your total accumulated points.

The letter grade is determined by the following scale:

<u>Accumulated points</u>	<u>Final Grade</u>
450 and above	A
400 - 459	B
350 – 399	C
300 – 349	D
299 and below	F

Supplies:

- The textbook is optional. Practice problems and notes will be provided on Blackboard. If you would like a book for reference, I recommend the following:

Textbook: *Mathematical Ideas*, Miller, Heeren, and Hornsby, 2019, 14th Edition, Prentice Hall/Pearson Education

- scientific calculator (The TI-30X is a good and inexpensive option.)
- pencils, notebook paper, 3" x 5" notecards
- Computer or cell phone that you can use to check Blackboard and emails.

Supplementary Course Information & Tutoring: Blackboard is the online course management system that will be utilized for this course. This course syllabus, as well as any class handouts and assignments can be accessed through Blackboard. Login at <http://southplainscollege.blackboard.com>. The user name and password should be the same as the Texan Connect and SPC email. Check Blackboard and your SPC email often for updates.

Free tutoring is available through the college. Check Blackboard for additional information about tutoring.

Contemporary Mathematics Tentative Course Outline
MATH1332
Summer 2021

JUNE				
	1 1 Order of operations & Linear Equations and Applications	2 2 Quadratic Equations & Applications Lab 1 due	3 3 Distance and Midpoint & Lines, Slope and Average Rate of Change Lab 2 due	4 4 Solving Linear Systems of Equations with Applications Lab 3 due
7 EXAM 1 ALGEBRA	8 5 Applications of Decimals and Percentages & Scientific Notation	9 6 Unit Conversions & Ratio, Proportion, and Variation Lab 5 due	10 7 Time Value of Money Lab 6 due	11
14 8 Cost of Homeownership Lab 7 due	15 EXAM 2 FINANCE	16 9 Triangles	17 10 Perimeter, Circumference and Area Lab 9 due	18
21 11 Volume and Surface Area Lab 10 due	22 12 Right Triangle Trigonometry with Applications Lab 11 due	23 EXAM 3 GEOMETRY	24 13 Set operations & Venn diagrams	25
28 14 Counting Techniques Lab 13 due	29 15 Basic Probability & Prob with “Not” & “Or” & Probability with “And” & Conditional Lab 14 due	30 16 Visual Display of Data & Measures of Central Tendency Lab 15 due	July 1 st FINAL EXAM	