

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.

Proctorio Syllabi Description - US Higher Education

Proctorio is a Learning Integrity Platform

This course will use Proctorio, a remote proctoring solution designed to protect the integrity of this course's assessments.

Equity and Fairness

The reason I've chosen Proctorio for this course is to make education more equal, by giving each student an opportunity to earn the grades they deserve. The US Federal Government also requires that all schools have a process in place for verifying student identity to protect against Federal Student Aid (FSA) fraud.

Privacy

Proctorio is a trusted platform for remote proctoring because of its commitment to student privacy. Proctorio uses single sign-on through our LMS and only I or approved individuals, here at our institution, will have access to your exam data. Proctorio never requires personally identifiable information from students and Proctorio will never sell your data to third parties. Read more about [Proctorio's approach to privacy](#).

Security

Proctorio only runs as an extension in your browser. This means that Proctorio works within a sandbox and has limited access to your computer system unlike traditionally installed software applications that have complete access to your computer's hard drive, or other resources.

Proctorio only runs while you are taking your exam. After your exam ends, you may uninstall the extension by right-clicking on it, to bring you peace of mind. Just remember, you'll need to reinstall the extension again before starting your next exam.

All student data is kept safe using zero-knowledge encryption, meaning student data is scrambled and unreadable by anyone outside of our institution's learning platform. Even Proctorio cannot see your exam data. Read more about [Proctorio security](#).

Getting Started

Before getting started on your first exam, make sure to follow the instructions in [Proctorio's Quick Start Test Taker Guide](#) for the extension. To verify your computer system meets the requirements, take the practice quiz. This will ensure that everything will run smoothly on the day of the exam.

If after reading the Quick Start Test Taker Guide if you have any trouble while using Proctorio, you can reach out to Proctorio support for troubleshooting. Proctorio support is available 24/7 and can assist in troubleshooting any extension related issues before, during and after your exam. You can contact Proctorio support via email at support@proctorio.com or by starting a live chat by clicking the Proctorio extension's shield icon.

COURSE SPECIFIC INFORMATION FOR MATH 1332.151

Instructor: Phyllis Cormier

Email: pcormier@southplainscollege.edu

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

Office Hours:

I will be available for virtual office hours each night labs are due from 10:00 until 10:30 PM. Appointments may also be made at other times 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 email.

Class Structure: This course is an online course. All instructional material is on Blackboard. Each unit in Blackboard has notes with video links to teach the material, practice problems with solutions and a lab to complete for a grade.

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.

Assignments & Grading:

Check Blackboard and your SPC email often for any updates in practice problems, labs, or exams. Additional study aids may also be added.

Practice problems: You will have practice problems to complete each class day except on exam days. A file with the problems and answers will be on Blackboard. Work all problems on notebook paper. **Work must be shown to receive credit.** The answers are provided so your job is to show me that you understand why that is the answer.

Labs: Labs will be 5 to 10 problems similar to practice problems. You may use your notes and practice problems to complete the lab. You will submit your lab and practice problems on the same tab and they will be count as one grade. Completed practice problems will be worth 1 bonus point and the lab will also be worth 10 points. The practice problems are for a completion grade only. If you try every problem and show your work, you will get 1 bonus point. The best 10 lab grades will be used to determine your final lab grade. Late labs will not be accepted.

You will need to submit these as a pdf uploaded to the lab assignment in Blackboard. You will need to download an app that will allow your phone or tablet to make pdf's. Camscanner, Scannable, and the OneDrive app are 3 possibilities.

OneDrive: All students have a free OneDrive account with their Office365 account. There is a free OneDrive app that will make a pdf of your work with your phone or tablet and will sync with your OneDrive account. This is one video I found that may help you with this.

<https://support.office.com/en-us/article/scan-a-whiteboard-document-business-card-or-photo-in-onedrive-for-ios-7b5425d5-754f-4201-b88f-13fc765d7d3a>

You may use any app for scanning that you prefer.

Notes: Class notes will be provided on Blackboard. These will have video links for you to watch and fill in the examples and details. Begin with the video links in the notes. You may also wish to watch videos from Kahn Academy. They have good videos that cover all math topics. The textbook also has good examples. Study the material before you begin the practice problems. While you are working the practice problems, check the answers to make sure you are

understanding the problems. If you miss a problem, go back and see what you did wrong. If you are still struggling with a problem, seek help. Begin with me. I will be glad to help you. If you are still needing more clarification, schedule a tutoring appointment with one of our SPC tutors or through tutor.com.

Exams: You may use a simple scientific calculator on the exams but calculators on cell phones will not be permitted. Graphing calculators such as TI-89 or TI-Inspire are not allowed on exams.

You may use a 3" x 5" notecard with formulas, notes, and examples on each exam. Submit a pdf of your notecard with your exam work at the end of the exam.

Proctorio will be used to securely proctor exams. Proctorio is easy to use and has good tech support. However, if you prefer to take an exam in person, let me know.

There will be 4 exams including the final.

Online exam guidelines:

1. Sign on to Blackboard and navigate to the exam.
2. Proctorio will have you perform some checks on your computer and show your ID. Please show an ID so I know that you are the correct person taking the class.
3. Exams are to be completed without the use of outside resources.
4. No one should be with you while you are taking the exam. (A friend passing by or a child needing attention is not a problem)
5. Show your work space. Your hands and paper should be visible on the video throughout the exam.
6. Show your cell phone. It should also be visible throughout the exam but should not be touched until the end.
7. When you have completed the exam, use your cell phone to make pdf's of your work and your notecard. Do this while the timer is still running and the camera is showing you making the pdf's.
8. Email your work to pcormier@southplainscollege.edu
9. Click submit on the exam.
10. I must receive your work within 15 minutes of your submitting the exam.
11. Failure to follow these guidelines may result in a zero on the exam or being dropped from the course. I reserve the right to ask you to work any problem on the exam that you answered correctly.

You will have the opportunity to practice using Proctorio before the first exam. Lab 2 will be used as a Proctorio quiz. You will have unlimited attempts on the quiz to correctly follow the exam guidelines.

Determining Grades:

| | |
|---------------------------|------------------|
| Lab work (10 points each) | 100 |
| Exam 1 | 100 |
| Exam 2 | 100 |
| Exam 3 | 100 |
| Final Exam | <u>100</u> |
| | 500 pts possible |

Grades are determined by the total accumulated points

| | |
|---------------|---|
| 450 and above | A |
| 400 – 449 | B |
| 350 – 399 | C |
| 300 – 349 | D |
| 299 and below | F |

Supplies:

- The textbook is optional. It will be for reference only. Assignments and notes will be provided on Blackboard

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.)
- notebook paper, pencils, 3" x 5" notecards
- Computer
- Webcam (Most laptops already have one. If you do not have one, you will need one before the first quiz. We will be using Proctorio to proctor online exams. This extension requires a webcam.)
- Reliable internet
- Cell phone or tablet that you can use to make a pdf.

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.

Free tutoring is available through the college. It will be appointment based, one-on-one online tutoring. Tutor.com will also be available for overnight and weekend tutoring. The Course Information tab on Blackboard contains information about tutoring including how to make an appointment. If you need help, there are many options.

See Blackboard folder labeled "start here" for videos showing:

1. How to navigate our Blackboard course.
2. How to show your workspace on Proctorio.
3. How to submit an assignment
4. How to view feedback on an assignment.

Contemporary Mathematics Tentative Course Outline
MATH1332
Summer 2021

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|---|---|---|--|--|
| 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 | |