

South Plains College
Common Course Syllabus: MATH 1332
Revised August 2021

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1332

Course Title: Contemporary Mathematics

Available Formats: conventional, hybrid, and internet

Campuses: Levelland, Reese, and Lubbock Center

MATH

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.

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 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.

If you are experiencing any of the following symptoms please do not attend class and either seek medical attention or get tested for COVID-19.

- Cough, shortness of breath, difficulty breathing
- Fever or chills
- Muscles or body aches
- Vomiting or diarrhea
- New loss of taste and smell

Please also notify DeEtte Edens, BSN, RN, Associate Director of Health & Wellness, at dedens@southplainscollege.edu or 806-716-2376.

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.

Fall 2021 - MATH 1332-272 – Contemporary Math

INSTRUCTOR: Ms. Jody Dean, B.S., M.S.

OFFICE: Rm #125G Lubbock Center

PHONE: (806) 716-4321

E-MAIL: jdean@southplainscollege.edu

OFFICE HOURS: Monday & Wednesday 100 – 200,
Tuesday & Thursday 1200 – 100,
Friday 900 – 1100 —by appointment
and almost any time by appointment

SUPPLIES: *Access to a computer with an internet connection and a webcam is required for this course.* You will need a graphing calculator, pencils, paper for note taking. The graphing calculator should be the equivalent of a TI-84 or lower. In other words, you will NOT be allowed to use a TI-89 or higher on an exam. You may NOT use a TI-Nspire on an exam. If you're not sure, ask me. I suggest some type of notebook to keep all your class notes and assignments together to make exam prep easier. *Warning: Do not expect your instructor to have supplies for you to borrow.*

ATTENDANCE: You have the option to attend class in person on campus or to attend class virtually on Zoom at class time. (This may change at some point to BlackBoard Collaborate. But we'll start with Zoom.) If you attend virtually, you must leave your camera and microphone on at all times. Either way of attendance is acceptable, but *you must attend class.*

Attendance and effort are the most important activities for success in this course. If you are absent, you, alone, are responsible for getting the notes and doing your assignment before the next class. If you decide to stop coming to class, you must go through the drop procedure. If you stop attending or miss *five* classes you may be dropped with a grade of F or X at the discretion of the instructor. Attendance will be checked in each class meeting.

With all that being said, because of COVID-19 adjustments have to be made. Any exceptions to these policies, although extremely rare, will be considered on a case by case basis.

Homework Submissions: All homework will need to be submitted as a PDF file over Blackboard by the due date and time. Only one PDF file per assignment should be submitted. I will not take any files that are not PDFs and I will not accept any submission in multiple files and I will not take any submissions over email. If you have a scanner, you can create your PDF with it. If you do not have a scanner (that's fine...I don't have one either), you will need to create your PDF by taking photos on your phone. I will post a document in Blackboard that describes how to create a PDF from your phone using the OneDrive app, which is the one I use to create PDFs. Always double check your PDF before submitting to make sure you have included the entire assignment and that the work is legible. Also, you should receive a submission confirmation after the document is submitted. If you mess up your first submission, you can always resubmit the assignment right up until the due date and time. However, after the due date has passed, I will not accept any resubmission. I encourage you to submit things early just in case you have trouble. I will only grade the last submission that you made for an assignment.

Exams:

- 4 Unit Exams. (see the schedule below for test days and times).
- The Final Exam is comprehensive.
- Exams will be conducted in person. *You must be in the room to take an exam*, not online.
- There are no exemptions for the final.
- If you are going to miss an exam, contact your instructor immediately. Make up exams are very rare and only provided under extreme, documented circumstances. I do allow you to take the exam early under some circumstances. Just talk to me.
- If your grade on your final exam is higher than one of the unit tests, I will replace that unit test grade with your final exam grade.

GRADING: Your grade will be calculated as follows. A test average (TA) will be found by averaging all the exam grades with the final exam counting twice. Then, the test average will be averaged with your online quiz grade to give your overall average. That is:

$$\begin{aligned} (\text{Exam1} + \text{Exam2} + \text{Exam3} + \text{Exam4} + 2 * \text{Final Exam}) / 6 &= \text{TA} \\ [(\text{TA} * .60) + (\text{HW} * .40)] / 2 &= \text{Overall Average.} \end{aligned}$$

There are **NO MAKE-UP** exams, quizzes or classroom exercises. Final grades will be assigned on the following scale: **A** 90%-100%; **B** 80%-89%; **C** 70%-79%; **D** 60%-69%; **F** below 60%

A grade of C (70) or better is required to advance to the next course. Although your grade in this course will not be used in calculating your GPA, your grade is used to determine academic status for financial aid. *This course and its grade will be recorded on your official transcript.*

Something to note, my standard policy is **NO NAME = NO GRADE**. Similarly, **HALF THE NAME = HALF THE GRADE**. There are no exceptions to this rule.

EXAM ETIQUETTE: During exams there will be no talking. All electronic devices must be silenced and put away, with the exception of calculators. No cell phones may be used during exams. Once the first person turns in an exam, no one else may start. If you come in after that point, you will not be allowed to take the exam and you will receive a zero for that exam. Therefore, it is extremely important that you be on time. No one may leave the room and come back during an exam.

ACADEMIC HONESTY: While working on homework and quizzes, students are allowed and even encouraged to work together. In this situation, two or more heads are almost always better than one. However, exams are different matter entirely. Each student is expected to work alone and with only the tools allowed for the exam. Any student caught cheating on an exam will receive a zero on that exam. A second offence will result in the student receiving an F for the course and being dropped from the course. Any student caught cheating on the final exam will receive an F for the course. There will be no exceptions to this rule.

CLASSROOM BEHAVIOR: Be aware that class is over when I dismiss it, and not before. Any student who repeatedly disrupts my class will be asked to leave. Some of the things that I consider “disruptions” include, but are not limited to, packing your things before the end of class, ringing cell phones, talking while I am talking, making a late “entrance”, and so on. Texting while in class is also a disruption. **No tobacco products of any kind may be used at any time during class.** Chronic offenders will be banned from the classroom. It is phenomenally difficult to pass my class if you cannot attend on test days.

Do NOT use texting abbreviations in any correspondence with me.

Instructor Expectations for Fall 2021:

- Communicate important course messages via Blackboard announcements and SPC email.
- Answer all emails within 24 hours.
- Keep Blackboard course updated and current. This includes all videos, assignments, and grades.
- Grade coursework and return with detailed feedback.

Student Expectations for Fall 2021:

- Check Blackboard daily.
- Check your SPC email account daily. All electronic communication with the instructor should take place via your SPC email account. Please consider that it is hard to read tone from email so let's give each other the benefit of the doubt. If you email about a specific homework question, please include a picture of the question and the work that you have tried in the email.
- Turn assignments in on time.
- Be aware of upcoming assignment and test due dates and times.

- Communicate with your instructor.
- Ask questions when you have them.

Succeeding in a Math Class:

- Be mentally present! Pay attention when watching online and take good notes.
- Plan ahead. Do homework early enough before the due date that you will have time to ask questions or seek help if you need it.
- Don't wait until the last minute to submit virtual assignments. If a Blackboard assignment is due by 6:00 p.m., as soon the clock strikes 6:00 p.m., you will no longer be able to submit on Blackboard. I will not take late assignments.
- You should expect to spend approximately 24 hours a week on this course. This includes time spent on homework and studying for exams.
- Get help as soon as you feel yourself falling behind! Don't wait!
- All assignments for the course are posted on Blackboard. If you want to get ahead, that is encouraged.
- I have found that the best way for a student to study for a math exam is to practice working problems over and over.

Everyone learns and studies differently. I encourage you to seek out and find what works best for you.

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4.1.1.2. Disabilities Statement

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4.1.1.3. Non-Discrimination Statement

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4.1.1.4 Title IX Pregnancy Accommodations Statement

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4.1.1.5 OPTIONAL STATEMENT - Campus Concealed Carry Statement

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Contemporary Mathematics Tentative Course Outline
Math 1332.272
Fall 2021 Hybrid Class

Week #	Day #	Date	Due at 6:00 PM	Topic for the Day's Class	Working on in Class
1	1	M – Aug 30 th		Course Intro; Exponents, Order of Operations, Scientific Notation	Syllabus Form; Notes and HW 1.1
	2	W – Sept 1 st	Syllabus Form; HW 1.1	Solving Linear Equations; Applications of Linear Equations	Notes and HW 1.2 and 1.3
2	3	M – Sept 6 th		Labor Day Holiday – No School	NA
	4	W – Sept 8 th	HW 1.2 and 1.3	Introduction to Polynomials; Solving Quadratic Equations	Notes and HW 1.4 and 1.5
3	5	M – Sept 13 th	HW 1.4 and 1.5	The Coordinate System, Distance and Midpoint; Intro to Lines and Slopes	Notes and HW 1.6 and 1.7
	6	W – Sept 15 th	HW 1.6 and 1.7	Equations of Lines; Functions, Graphs and Models	Notes and HW 1.8 and 1.9
4	7	M – Sept 20 th	HW 1.8 and 1.9	Systems of Linear Equations; Applications of Linear Systems	Notes and HW 1.10 and 1.11
	8	W – Sept 22 nd	HW 1.10 and 1.11	Review over Unit 1	HW 1.12: Unit 1 Review
5	9	M – Sept 27 th	Notebook 1 and HW 1.12: Unit 1 Review	Exam #1 – Algebra	Exam #1
	10	W – Sept 29 th		Measurement and Conversions; Ratios and Proportions	Notes and HW 2.1 and 2.2
6	11	M – Oct 4 th	HW 2.1 and 2.2	Variations; Simple and Compound Interest	Notes and HW 2.3 and 2.4
	12	W – Oct 6 th	HW 2.3 and 2.4	Loan Amortization and the Costs and Advantages of Home Ownership; Financial Investments	Notes and HW 2.5 and 2.6
7	13	M – Oct 11 th	HW 2.5 and 2.6	Review over Unit 2	HW 2.7: Unit 2 Review
	14	W – Oct 13 th	Notebook 2 and HW 2.7: Unit 2 Review	Exam #2 – Consumer Math	Exam #2
8	15	M – Oct 18 th		Angles, Curves and Polygons; Triangles: Similarity and the Pythagorean Theorem	Notes and HW 3.1 and 3.2
	16	W – Oct 20 th	HW 3.1 and 3.2	Perimeter, Circumference and Area; 3-D Shapes, Surface Area and Volume	Notes and HW 3.3 and 3.4
9	17	M – Oct 25 th	HW 3.3 and 3.4	Right Triangle Trigonometry	Notes and HW 3.5
	18	W – Oct 27 th	HW 3.5	Review over Unit 3	HW 3.6: Unit 3 Review
10	19	M – Nov 1 st	Notebook 3 and HW 3.6: Unit 3 Review	Exam #3 – Geometry	Exam #3
	20	W – Nov 3 rd		Sets, Subsets, Set Operations and Venn Diagrams; Surveys and Cardinal Numbers	4.1 and 4.2
11	21	M – Nov 8 th	HW 4.1 and 4.2	Counting by Systematic Listing; Using the Fundamental Counting Principle	4.3 and 4.4
	22	W – Nov 10 th	HW 4.3 and 4.4	Counting Problems Involving “Not” and “Or”; Basic Probability Concepts	4.5 and 4.6
12	23	M – Nov 15 th	HW 4.5 and 4.6	Probability Events Involving “Not” and “Or”; Conditional Probability and Events Involving “And”	4.7 and 4.8
	24	W – Nov 17 th	HW 4.7 and 4.8	Mathematical Expectation; Visual Displays of Data	4.9 and 4.10

13	25	M – Nov 22 nd	HW 4.9 and 4.10	Measures of Central Tendency	4.11
	26	W – Nov 24 th		Thanksgiving Holiday – No School	NA
14	27	M – Nov 29 th	HW 4.11	Review over Unit 4	4.12 Review
	28	W – Dec 1 st	Notebook 4 and HW 4.12: Unit 4 Review	Exam #4 – Probability and Statistics	Exam #4
15	29	M – Dec 6 th		Review for Comprehensive Final	Final Review
	30	W – Dec 8 th		Review for Comprehensive Final	Final Review
16	31	M – Dec 13 th	Final Review	Final Exam 10:15 – 12:15	Final Exam

*Note: This schedule is tentative and may be altered as deemed necessary by the instructor. If there are any changes, they will be announced **in class and via a Blackboard announcement.***

Personal Info

Printed Name: _____

Age: _____

High School Attended: _____

Current City: _____

Major: _____

List any math classes (whether high school or college) that you completed successfully in the last four years:

Below, please write anything else you feel I should know about you that pertains to this class.

Syllabus Receipt

I certify that I have read and understood the class syllabus for MATH 1332-272, which is being taught in the Fall 16-week semester of 2021.

Signature

Date