

South Plains College
Common Course Syllabus: MATH 1332
Revised December 2019

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1332

Course Title: Contemporary Mathematics

Available Formats: conventional 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 Policy: Attendance and effort are the most important activities for success in this course. Records of your attendance are maintained throughout the semester. Five (5) absences, **for any reason**, are allotted to the student for the semester. Tardies count as one-half (1/2) of an absence. Tardies will be applied for consistently being late to class, as deemed by the instructor and leaving class early. If this number is exceeded, the instructor has the right to drop you with a grade of F or an X, depending on their 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.

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 1332.201, 203, 204 and 205

Instructor: Phyllis Cormier

Email: pcormier@southplainscollege.edu

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

Office Hours:

Monday	Tuesday	Wednesday	Thursday	Friday
5:00 pm – 5:30 pm	11:00pm – 1:00 pm	12:30 pm – 3:00pm	2:30 pm – 4:00 pm	9:00 am – 10:30am

Appointments may also be made at times other than those listed above.

Assignments & Grading:

Homework: Assignments will be made at each class meeting. I will grade homework 60% for completion and 40% for accuracy. I will predetermine which 4-10 problems I will grade to determine how well you understood the assignment. **Work must be shown to receive credit.** Many of the answers are in the back of the book so your job is to show me that you understand why that is the answer. Late assignments will be accepted for a completion grade only (maximum 60 pts).

Lab work & Quizzes: The labs are 3 – 5 problems over that day's lesson to determine how well you understood the lecture. You may use your notes and ask questions for the lab work. Quizzes may be administered at any time and will cover problems that you have completed for homework. Lab work and quizzes are worth 20 points each. Each set of 5 labs/ quizzes will add together to give you one lab grade. Lab work and quizzes cannot be made up.

Notes: Class notes with space to fill in examples and details will be provided on Blackboard. These may be used to make note taking in class easier and more complete.

Notebook: Keep all class materials (handouts, homework, quizzes, lab work and exams) organized in a notebook (3-ring binder). These materials will be graded during exam times. You will need 5 tabs in your binder, one for each unit.

Exams: You may use a scientific calculator on the exams but calculators on cell phones and graphing calculators will not be permitted. You will not be allowed to leave the room during test times. **There will be no make-up exams.** If you miss one exam, the grade from the final exam will be substituted for the grade on the missed exam.

Determining Grades:

Daily work (homework, quizzes, lab work, notebook)	20%
Exam 1	15%
Exam 2	15%
Exam 3	15%
Exam 4	15%
Final Exam	20%

Your final average in the course will determine the letter grade posted on your transcript. This grade is determined by the following scale: A (90-100%), B (80-89%), C (70-79%), D (60-69%), F (0-59%).

Supplies: You will need a scientific calculator (such as a TI-30X), graph paper, and a 3-ring binder. Graphing calculators or any other electronic devices will not be allowed.

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 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 at the Reese Center in Building 2. Check Blackboard often for the latest tutoring schedule and course supplements (handouts, additional notes, sample problems for practice, etc.).

Contemporary Math Tentative Course Outline
MATH 1332.205 (TR 1:00 p.m.- 2:15 p.m. RC227)
Spring 2020

Week	Day	Date	Lesson/Tentative Assignment	Due Date
1	Tue	1/14	Assignment 1: [6.2] Order of Operations [7.1] Solving Linear Equations	Tues 1/21
	Thurs	1/16	Assignment 2: [7.2] Applications of Linear Functions [7.7] Solving Quadratic Eq. with the Quadratic Formula	Thurs 1/23
2	Mon	1/20	Martin Luther King Holiday	
	Tues	1/21	Assignment 3: [7.7] Applications of Quadratic Equations [8.1] Distance & Midpoint	Tues 1/28
	Thurs	1/23	Assignment 4: [8.2] Lines, Slope & Average Rate of Change [8.3] Equations of Lines	Tues 2/4
3	Tues	1/28	Assignment 5: [8.7] Solving Systems by Graphing, Elimination & Substitution	Tues 2/4
	Thurs	1/30	Assignment 6: [8.8] Applications of Linear Systems & Review	Tues 2/4
4	Tues	2/4	EXAM 1 (15%)	
	Thurs	2/6	Assignment 7: [6.5] Applications of Decimals & Percentages	Thurs 2/13
5	Tues	2/11	Assignment 8 Unit Conversions & [7.5] Scientific Notation	Tues 2/18
	Thurs	2/13	Assignment 9: [7.3] Ratio, Proportion & Variation	Thurs 2/20
6	Tues	2/18	Assignment 10: [13.1] Time Value of Money	Thurs 2/27
	Thurs	2/20	Assignment 11: [13.4] Cost of Home Ownership	Thurs 2/27
7	Tues	2/25	Assignment 12: [13.5] Annuities & Review	Thurs 2/27
	Thurs	2/27	EXAM 2 (15%)	
8	Tues	3/3	Assignment 13: [9.2] Sum of Angles in Triangle, Classification of Triangles [9.3] Congruence & Similarity of Triangles & Pythagorean Theorem	Tues 3/10
	Thurs	3/5	Assignment 14: [9.4] Perimeter, Area & Circumference	Thurs 3/12
9	Tues	3/10	Assignment 15: [9.5] Volume & Surface Area	Tues 3/24
	Thurs	3/12	Assignment 16: [Supplement] Right Triangle Trigonometry	Tues 3/24
10	Mon	3/16	Spring Break – Monday 3/16 – Friday 3/ 20	
11	Tues	3/24	Assignment 17: [Supplement] Applications of Trigonometry	Tues 3/31
	Thurs	3/26	Assignment 18: [Supplement] Law of Sines and Cosines	Tues 3/31
12	Tues	3/31	Exam 3 (15%)	
	Thurs	4/2	Assignment 19: [2.2,2.3,2.4] Set Operations & Venn Diagrams	Thurs 4/9
13	Tues	4/7	Assignment 20: [10.1] Counting by Systematic Listing [10.2] Fundamental Counting Principle [10.3] Combinations & Permutations	Tues 4/14
	Thurs	4/9	Assignment 21: [11.1] Basic Probability [11.2] Events Involving “Not” and “Or”	Tues 4/21
14	Mon	4/13	Easter Break	
	Tues	4/14	Assignment 22: [11.3] Conditional Prob. & Events Involving “And” [12.1] Visual Display of Data	Tues 4/21
	Thurs	4/16	Assignment 23: [12.1] Visual Display of Data cont. & Review	Tues 4/21
15	Mon	4/20	Online registration opens for Spring Interim, Summer, and Fall 2020 at 8:00 a.m.	
	Tues	4/21	Exam 4 (15%)	
	Thurs	4/23	Assignment 24: [12.2] Measure of Central Tendency Last day to drop Spring semester courses	Thurs 5/7
16	Tues	4/28	Assignment 25: [11.5] Expected Value	Thurs 5/7
	Thurs	4/30	Review for Final Exam	Thurs 5/7
17	Thurs	5/7	Final Exam (20%) 10:15 a.m. – 12:15 p.m.	