

South Plains College – Dual Credit

Course Title: MATH 1332, Contemporary Math

Fall 2022

Office Hours: Literally Anytime

Office: Muleshoe HS/ Room 109

Course Instructor: Larry Cribbs

Email: lcribbs@muleshoeisd.net

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.

Student Learning Outcomes:

Upon successful (passing) completion of this course, 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.

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. 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.

Assignments & Grading: You will have a High School Grade and a College grade for this class. Homework assignments will be made at each class meeting. Please make certain all materials accompany you to each class meeting.

College Grading percentages:

Assignments/Quizzes: 40%

Unit Test: 40%

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:

For MATH 1314 – A (90-100%), B (80-89%), C (70-79%), D (60-69%), F (0-59%).

Supplies: You will need a scientific calculator, chromebook, scanning device, paper, and pencil.

NOTE: You are NOT allowed to work on other classes until ALL homework for this class is complete and turned in.

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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 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.

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.

Algebra Unit

6.2 – Order of Operations
7.1 - Solving Linear Equations
7.2 – Applications of Linear Equations
7.7 – Solving Quadratics with the Quadratic Formula
8.1 – Rectangular Coordinate System, Distance and Midpoint
8.2 – Lines, Slope and Average Rate of Change
8.3 – Equations of Lines
8.7 – Solving Systems of Linear Equations
8.8 – Applications of Linear Systems

Consumer Math Unit

6.5 Applications of Decimals and Percent
7.3 – Proportions and Variations
7.5 – Scientific Notation only
13.1 The Time Value of Money – ACGM Objective #3
13.4 The Costs and Advantages of Home Ownership (Basic Amortization) - ACGM Objective #3
13.5 Annuities (Basic Future Value of Annuity with Payments) - ACGM Objective #3

Geometry/Trigonometry Unit

9.2 – Polygons, Sum of Angles in Triangle, Classification of Triangles
9.3 – Geometry of Triangles: Congruence, Similarity and the Pythagorean Theorem
9.4 – Perimeter, Area, Circumference
9.5 – Volume and Surface Area

Statistics/Probability Unit

2.2, 2.3, 2.4 - Set Operations and Venn Diagrams (all in 1 day) - ACGM Objectives #1 and #2
10.1 – Counting by Systematic Listing - ACGM Objective #4
10.2 – Using the Fundamental Counting Principle - ACGM Objective #4
11.1 – Basic Probability - ACGM Objective #4
11.2 – Events Involving “Not” and “Or” - ACGM Objective #4
11.3 - Events Involving “And” - ACGM Objective #4
12.1 – Visual Displays of Data - ACGM Objective #5
12.2 – Measures of Central Tendency - ACGM Objective #5