

South Plains College – Plainview Center

MATH 1332-151, 451 Syllabus

(Revised 05-25-2023)

Course Instructor: Tom Johnson

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Course Title: MATH 0332/1332-C501, Contemporary 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.

This course partially satisfies a Core Curriculum Requirement: Mathematics Foundational Component Area (020)

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: (Access Via Pearson MathLab online)

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

Core Curriculum Objectives Addressed:

1. **Communication Skills:** to include effective written, oral and visual communication.
2. **Critical Thinking Skills:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
3. **Empirical and Quantitative Competency Skills:** to manipulate and analyze numerical data or observable facts resulting in informed conclusions.

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.

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Course Evaluation: Homework (40% of overall grade) will be assigned after each lecture. Unit Quizzes (40% of overall grade) will be given periodically. There will be a Final Exam (20% of overall grade) given by all instructors.

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) 806716-4675, 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 806716-2360.

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.

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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.

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.

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Tom Johnson	2023S1 - MATH-1332-151-451 - TJohnson
Tom Johnson	Miller: Mathematical Ideas, 14e

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Order	Ch.	Assignment Name	Category	Assigned	Start	Due	Actions
1	7	07.1 Solving Linear Equations			06/05/23 6:00am	07/03/23	-- Select --
2	7	07.2 Applications of Linear Equations			06/05/23 6:00am	07/03/23	-- Select --
3	8	08.2 Lines, Slope, & Average Rate of Change			06/05/23 6:00am	07/03/23	-- Select --
4	8	08.3 Equations of Lines			06/05/23 6:00am	07/03/23	-- Select --
5	8	08.4 Linear Functions, Graphs, & Models			06/05/23 6:00am	07/03/23	-- Select --
6	8	08.7 Solving Systems of Linear Equations			06/05/23 6:00am	07/03/23	-- Select --
7	8	08.8 Applications of Linear Systems			06/05/23 6:00am	07/03/23	-- Select --
8	0	Quiz 1			06/09/23		-- Select --
9	7	07.6 Polynomial Operations			06/12/23 6:00am	07/03/23	-- Select --
10	7	07.7 Solving Quadratic Equations			06/12/23 6:00am	07/03/23	-- Select --
11	8	8.5 Graphing Parabolas			06/12/23	07/03/23	-- Select --
12	13	13.1 The Time Value of Money			06/12/23 6:00am	07/03/23	-- Select --

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13	0	Quiz 2			06/16/23		-- Select --
14	9	09.3 Geometry of Triangles, Pythagorean Theorum			06/19/23 6:00am	07/03/23	-- Select --
15	9	09.4 Perimeter, Area & Circumference			06/19/23 6:00am	07/03/23	-- Select --
16	9	09.5 Volume & Surface Area			06/19/23 6:00am	07/03/23	-- Select --
17	Trig	Trig Ratios (Sin, Cos, Tan)			06/19/23 6:00am	07/03/23	-- Select --
18	Trig	Law of Sines and Cosines			06/19/23 6:00am	07/03/23	-- Select --
19	0	Quiz 3			06/23/23		-- Select --
20	10	10.1 Counting by Systematic Listing			06/26/23 6:00am	07/03/23	-- Select --
21	10	10.2 Using the Fundamental Counting Principle			06/26/23 6:00am	07/03/23	-- Select --
22	11	11.1 Basic Probability			06/26/23 6:00am	07/03/23	-- Select --
23	11	11.2 Events Involving "Not"; & "Or";			06/26/23 6:00am	07/03/23	-- Select --
24	0	Quiz 4			06/30/23		-- Select --
25	11	11.3 Events Involving "And";			07/03/23 6:00am	07/03/23	-- Select --
26	12	12.1 Visual Displays of Data			07/03/23 6:00am	07/03/23	-- Select --

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27	12	12.2 Measures of Central Tendency			07/03/23 6:00am	07/03/23	-- Select --
28	7-13, Trig	The Final Exam			06/02/23 6:00am	07/03/23	-- Select --