South Plains College
Common Course Syllabus: MATH 1332
Revised December 2022

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, 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 TSIA1, minimum score of 950 on the TSIA2, a diagnostic score of 6 on the TSIA2, TSI-exempt status, a successful completion with a grade of 'C' or better in MATH 0337, or successful completion of NCBM-0112.

Credit: 3 **Lecture:** 3 **Lab:** 0

Textbook: (for reference only, not required) *Mathematical Ideas*, Miller, Heeren, and Hornsby, 2019, 14th Edition, Prentice Hall/PearsonEducation

This course partially satisfies a Core Curriculum Requirement: Mathematics FoundationalComponent 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 orobservable facts resulting in informed conclusions

Student Learning Outcomes: Upon completion of this course and receiving a passing grade, thestudent 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 solveproblems.
5. Interpret and analyze various representations of data.

6. Demonstrate the ability to choose and analyze mathematical models to solve problems fromreal-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 activitiesfor success in this course. The instructor maintains records of the student's attendance and submissionof 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 <u>may</u> 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, anonline term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online siteswithout providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be directquotations 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 originalstudent'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 from the student and the instructor. Neither the instructor nor the student should be subject to others' rude, disruptive, intimidating, aggressive, or demeaning behavior**.** 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.

South Plains College policies concerning diversity, disabilities, non-discrimination, Title IX Pregnancy Accommodations, and Campus Concealed Carry Statements can be found here: https://www.southplainscollege.edu/syllabusstatements/.

South Plains College policies, return to campus plan, and protocols regarding COVID-19 can

be found here: https://www.southplainscollege.edu/emergency/covid19-faq.php.

SPC Bookstore Price Match Guarantee Policy: If you find a lower price on a textbook, the SouthPlains 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 acopy 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 arenot 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 publishersites, 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.

Instructor Information – Spring 2023
Contemporary Mathematics
Math 1332.609 TR 1:00 – 2:15 DC B004

Instructor: Gina Becker, BSE, M Ed **Phone:** 806.716.4684
Email: gbecker@southplainscollege.edu **Office:** Downtown Center B018

Office hours:

Monday*	Tuesday*	Wednesday*	Thursday*	Friday*
8:15 – 9:30	8:15 – 9:30	8:15 – 9:30	8:15 – 9:30	8:15 – 9:30
10:45 – 11:00	10:45 – 11:00	10:45 – 11:00	10:45 – 11:00	
	12:45 – 1:00		12:45 – 1:00	
	2:15 - 2:30			*or by appointment

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Class Structure:
The class will meet in person twice a week. If you must miss class for any reason, the notes and videos may be found on Blackboard.

Class Attendance:
Attendance and engagement are the most critical activities for success in this course. The instructor maintains records of all student's attendance and submission of assignments throughout the semester. Students are expected to attend at least eighty percent (80%) of the **total** class meetings (no more than 6 absences) **and** submit at least eighty percent (80%) of the **total** class assignments (no more than 8 zeroes) to have the best chance of success. If a student fails to meet these minimum requirements, the instructor <u>may</u> remove the student from the class with an X. Arriving more than 10 minutes late or leaving for part of the class will be counted as an absence.

Assignments & Grading (All assignments will be graded within one week of submission):
Homework assignments will be assigned each class day and will be due on the following class day. You will upload your completed homework into Gradescope on or before the due date/time. **Late homework assignments are not accepted.** Each homework assignment is worth **0.3 points.**

Quizzes will be given weekly on non-exam weeks and **no makeup quizzes will be offered**. To receive credit, all work for each problem must be shown. Each quiz is worth **4 points.** Missing a quiz will result in 0 points for that quiz.

Exams will cover material from previous units. **Four exams** will be worth **10 points** each and the comprehensive final exam will be worth 20 points. **There are no makeup exams.** If you miss an exam, your final exam grade may be used to replace a missed exam. The final exam is mandatory to complete the course. Your final point value will determine your letter grade for this class and will be determined by the following scale:

A - 90-100		Homework	8
B - 80-89		Quizzes	32
C - 70-79		Exams	40
D - 60-69		Final Exam	20
F - 0-59		Total	100 points

Communication:
Any questions or comments should be sent using SPC email. The instructor will do her best to respond to your email within 24 hours of receipt. Any email sent on a weekend may not be answered until Monday.

To maximize potential for successfully completing this course:
- Print notes provided on Blackboard and fill in examples during class.
- Attend class prepared to complete notes and ask questions.
- Cell phones provide the opportunity for distraction. You should choose to refrain from checking during class.
- Complete homework assignment on the day it is assigned. If you have difficulty working a problem, come to office hours before class or contact the academic coach.
- Check Blackboard and your SPC email often for any updates.
- Be prepared for Quizzes and Exams. Makeups are not available.

Supplies:
- A textbook is not required for this course. If you prefer to have a supplemental text for your own reference, use: *Mathematical Ideas*, Miller, Heeren, and Hornsby, 2019, 14th Edition, PrenticeHall/Pearson Education. ISBN 9780134995588
- Homework and notes will be provided on Blackboard.
- Scientific Calculator (TI-30XIIS is a good and inexpensive option.)
- pencils, notebook paper, 3" x 5" notecards
- Computer or cell phone that you can use to check Blackboard and emails and to upload your homework to Gradescope.

Blackboard:
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 MySPC and SPC email.
      User name: first initial, last name, and last 4 digits of the Student ID
      Password: Original CampusConnect Pin Number (found on SPC acceptance letter)
Questions regarding Blackboard support may be emailed to blackboard@southplainscollege.edu or bytelephone 806-716-2180.

SPC Tutoring Options:
In Person: Tutoring is FREE for all currently enrolled students. Make an appointment or drop-in for help at any SPC location or online! Visit the link below to learn more about how to book an appointment, view the tutoring schedule, get to know the tutors and view tutoring locations.http://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php

Tutor.com You also have 180 FREE minutes of tutoring with tutor.com each week, and your hours reset every Monday morning. Log into Blackboard, click on the tutor.com link on the left-hand tool bar and grab asession with a tutor. You can access tutor.com tutors during the following times: **Monday – Thursday: 8pm-8 am Friday 6 pm –Monday morning 8am** Free tutoring is available through the college. Check Blackboard for additional information about tutoring.

Withdrawal from course:
Fill out the Student Initiated Drop Form found at
https://www.southplainscollege.edu/admission-aid/apply/schedulechanges.php. SPC might
not permit an undergraduate student to drop a total of more than six courses (including any
course a transfer student has dropped at another institution of higher education.)

*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.*

Tentative Course Schedule

Week	Tuesday	Thursday
1	**January 17** Course Introduction	**January 19** 1.1 Order of Operations, Exponents
2	**January 24** 1.2 Solving Linear Equations	**January 26** 1.3 Applications of Linear Equations **Quiz 1**
3	**January 31** 1.4 The Rectangular Coordinate System, Distance and Midpoint and Introduction to Lines and Slope	**February 2** 1.5 Equations of Lines and Functions, Graphs and Models **Quiz 2**
4	**February 7** 1.6 Systems of Linear Equations and Applications	**February 9** 1.7 Introduction to Polynomials and Solving Quadratic Equations 1.8 Unit 1 Review **Quiz 3**
5	**February 14** 2.1 Decimals, Percent and Scientific Notation	**February 16** **Unit 1 Exam**
6	**February 21** 2.2 Ratios and Proportions and Variation	**February 23** 2.3 Simple and Compound Interest **Quiz 4**
7	**February 28** 2.4 Loan Amortization; The Cost and Advantages of Home Ownership	**March 2** 2.5 Financial Investments 2.6 Unit 2 Review **Quiz 5**
8	**March 7** 3.1 Measurement and Conversions	**March 9** **Exam 2**
9	**March 21** 3.2 Triangles	**March 23** 3.3 Perimeter, Circumference and Area **Quiz 6**
10	**March 28** 3.4 3-D Shapes, Surface Area and Volume	**March 30** 3.5 Right Triangle Trigonometry 3.6 Unit 3 Review **Quiz 7**
11	**April 4** Review Exam 3	**April 6** **Unit 3 Exam**
12	**April 11** 4.1 Sets, Subsets, and Venn Diagrams, Cardinal Numbers and Surveys	**April 13** 4.2 Counting by Systematic Listing, Using the Fundamental Counting Principle **Quiz 8**
13	**April 18** 4.3 Counting Problems Involving "Not" and "Or" and Basic Probability	**April 20** 4.4 Probability Events Involving Not and Or and Conditional Probability and Events Involving And 4.5 Unit 4 Review **Quiz 9**
14	**April 25** Review Unit 4	**April 27** **Unit 4 Exam** *Last Day to Drop*
15	**May 2** 4.6 Visual Displays of Data and Measures of Central Tendency	**May 4** **Review**
Finals Week		**May 11** Final Exam 10:15 – 12:15