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 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.

Proctorio Syllabi Description - US Higher Education

Proctorio is a Learning Integrity Platform
This course will use Proctorio, a remote proctoring solution designed to protect the integrity of this course's assessments.

Equity and Fairness
The reason I've chosen Proctorio for this course is to make education more equal, by giving each student an opportunity to earn the grades they deserve. The US Federal Government also requires that all schools have a process in place for verifying student identity to protect against Federal Student Aid (FSA) fraud.

Privacy
Proctorio is a trusted platform for remote proctoring because of its commitment to student privacy. Proctorio uses single sign-on through our LMS and only I or approved individuals, here at our institution, will have access to your exam data. Proctorio never requires personally identifiable information from students and Proctorio will never sell your data to third parties. Read more about Proctorio's approach to privacy.

Security
Proctorio only runs as an extension in your browser. This means that Proctorio works within a sandbox and has limited access to your computer system unlike traditionally installed software applications that have complete access to your computer's hard drive, or other resources.

Proctorio only runs while you are taking your exam. After your exam ends, you may uninstall the extension by right-clicking on it, to bring you peace of mind. Just remember, you'll need to reinstall the extension again before starting your next exam.

All student data is kept safe using zero-knowledge encryption, meaning student data is scrambled and unreadable by anyone outside of our institution's learning platform. Even Proctorio cannot see your exam data. Read more about Proctorio security.

Getting Started
Before getting started on your first exam, make sure to follow the instructions in Proctorio's Quick Start Test Taker Guide for the extension. To verify your computer system meets the requirements, take the practice quiz. This will ensure that everything will run smoothly on the day of the exam.

If after reading the Quick Start Test Taker Guide if you have any trouble while using Proctorio, you can reach out to Proctorio support for troubleshooting. Proctorio support is available 24/7 and can assist in troubleshooting any extension related issues before, during and after your exam. You can contact Proctorio support via email at support@proctorio.com or by starting a live chat by clicking the Proctorio extension's shield icon.

COURSE SPECIFIC INFORMATION FOR MATH 1332.151
Instructor: Phyllis Cormier
Email: pcormier@southplainscollege.edu
Office: Reese Center, Building 2 Rm 223B Phone: (806)716-2797 (leave a message)

Office Hours:
I will be glad to help you. Please email to make an appointment to meet by Zoom or Blackboard Collaborate. You may also consider sending pictures of your work by email if you would like for me to help you find an error.

Assignments & Grading:
Check Blackboard and your SPC email often for any updates in assignments, quizzes, or tests. Additional study aids may also be added.

Homework: Assignments will be made each day Monday – Thursday except on exam days. **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 maximum of 60 points. I will grade homework 40% for accuracy and 60% for completion. I will choose about 10 problems to grade to determine how well you understood the assignment. If these are correct and the assignment is complete with work shown, you will receive 100.

You will need to submit your homework as a pdf uploaded to the assignment in Blackboard. All students have a free OneDrive account with their Office365 account. I suggest you try one or both of the following options before class begins on Monday so you are prepared to turn in your first assignment on Tuesday June 2nd.

OneDrive: There is a free app that will make a pdf of your work with your phone or tablet. This is one video I found that may help you with this.
https://support.office.com/en-us/article/scan-a-whiteboard-document-business-card-or-photo-in-onedrive-for-ios-7b5425d5-754f-4201-b88f-13fc765d7d3a

Scannable: This is another option. You may use any tool you like to make a pdf but this one seems user friendly. https://www.youtube.com/watch?v=RoAYGhtbdkI

Assignments are made from the textbook. The e-book is an acceptable format and may be rented.

Notes: Class notes will be provided on Blackboard. These will have video links for you to watch and fill in the examples and details. There are also PowerPoint presentations from the publisher on Blackboard that have been altered to fit our course. You may also wish to watch videos from Kahn Academy. They have good videos that cover all math topics. The textbook also has good examples. I recommend that you study the material before you begin the homework. While you are working the homework, check the answers in the back of the book to make sure you are understanding the problems. If you miss a problem, go back and see what you did wrong.

Exams: You may use a scientific calculator on the exams but calculators on cell phones will not be permitted. The use of any websites or apps during exams is considered cheating and will result in a zero on the exam. We will be using Proctorio through Blackboard to securely proctor exams. There will be 3 unit exams and a comprehensive final.

Projects: The last 3 units have a project that uses information from the unit to complete. I hope that they will help you to see further application for the topics we are studying in this course.

<u>Determining Grades:</u>

Daily work (homework assignments)	15%
Labs (3 projects)	5%
Exam 1	20%
Exam 2	20%
Exam 3	20%
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:
- scientific calculator (The TI-30X is a good and inexpensive option.) You may <u>not</u> use your cell phone calculator on exams.
- Webcam (Most laptops already have one. If you do not have one, you will need one before the first exam. We will be using Proctorio to proctor exams. This extension requires a webcam.)
- Textbook in your favorite format. (The ebook may be the most inexpensive option and can be rented for less.)

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 and assignments 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 through the college. It will be appointment based, one-on-one online tutoring. Tutor.com will also be available for overnight and weekend tutoring. Check Blackboard often for the latest tutoring schedule and course supplements (handouts, additional notes, sample problems for practice, etc.). Summer classes move quickly so be sure to stay caught up on assignments. If you need help, there are many options.

Contemporary Math Tentative Course Outline
MATH 1332.151
Summer 2020

Week	Day	Date	Lesson/Tentative Assignment	Due Date
1	Mon	6/1	Assignment 1: [6.2] Order of Operations 　　　　　　　[7.1] Solving Linear Equations	6/2
	Tues	6/2	Assignment 2: [7.2] Applications of Linear Functions 　　　　　　　[7.7] Solving Quadratic Eq. with the Quadratic Formula 　　　　　　　& Applications of Quadratic Equations	6/3
	Wed	6/3	Assignment 3: [8.1] Distance & Midpoint 　　　　　　　[8.2] Lines, Slope & Average Rate of Change 　　　　　　　[8.3] Equations of Lines	6/4
	Thurs	6/4	Assignment 4: [8.7] Solving Systems by Graphing, Elimination & 　　　　　　　Substitution	6/8
2	Mon	6/8	Assignment 5: [8.8] Applications of Linear Systems	6/9
	Tue	6/9	**Exam 1 – 20 %**	
	Wed	6/10	Assignment 6: [6.5] Applications of Decimals & Percentages 　　　　　　　[supplement] Unit Conversions	6/11
	Thurs	6/11	Assignment 7: [7.3] Ratio, Proportion & Variation 　　　　　　　[7.5] Scientific Notation	6/15
3	Mon	6/15	Assignment 8: [13.1] Time Value of Money 　　　　　　　[13.4] Cost of Home Ownership	6/16
	Tues	6/16	Assignment 9: [13.5] Annuities	6/17
	Wed	6/17	Assignment 10 : [9.2] Sum of Angles in Triangle, Classification of 　　　　　　　Triangles [9.3] Congruence & Similarity of Triangles 　　　　　　　& Pythagorean Theorem	6/18
	Thurs	6/18	**Exam 2 – 20%**	
4	Mon	6/22	Assignment 11: [9.4] Perimeter, Area & Circumference 　　　　　　　[9.5] Volume & Surface Area *Last day to drop a class for Summer I 2020*	6/23
	Tues	6/23	Assignment 12: [Supplement] Right Triangle Trigonometry with 　　　　　　　Applications	6/24
	Wed	6/24	Assignment 13: [2.2,2.3,2.4] Set Operations & Venn Diagrams	6/25
	Thurs	6/25	Assignment 14: [10.1] Counting by Systematic Listing 　　　　　　　[10.2] Fundamental Counting Principle 　　　　　　　[10.3] Combinations & Permutations	6/29
5	Mon	6/29	**Exam 3 – 20%**	
	Tues	6/30	Assignment 15: [11.1] Basic Probability 　　　　　　　[11.2] Events Involving "Not" and "Or"	7/1
	Wed	7/1	Assignment 16: [11.3] Conditional Prob. & Events Involving "And" 　　　　　　　[12.1] Visual Display of Data	7/2
	Thurs	7/2	Assignment 17: [12.2] Measures of Central Tendency	7/6
Final	Mon	7/6	**Final exam**	