# South Plains College
## Math 1332 – Contemporary Mathematics (3:3:0)
## Course Syllabus
## Fall 2019

**Instructor:**  Diane Eagle
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**Office Hours:**

| Monday | Tuesday | Wednesday | Thursday | Friday |
|--------|---------|-----------|----------|--------|
| 1:30 – 2:30<br>5:00 – 5:30 | 1:30 – 2:30 | 1:30 – 2:30<br>5:00 – 5:30 | 1:30 – 2:30 | 9:00 – 12:00 |

**Prerequisites:**  2 years of high school algebra, successful completion of MATH 0320 (a C or higher) or TSI compliance.

**Textbook:**  Mathematical Ideas, 14<sup>th</sup> ed., Miller/Heeren/Hornsby/Heeren, Pearson Education, 2020. This textbook is available on reserve in the library.  Electronic texts are also permissible.

**Supplies:**  Pencils, paper, straightedge, and graph paper. **Only a basic non-graphing calculator (such as a TI-30) will be allowed in class.**  Graphing calculators and calculators on cell phones or other electronic devices or apps will **NOT** be allowed during tests or in-class assignments. Arrive on time and come prepared to take notes every day.

**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.  Note: This course satisfies a 020 Mathematics Core Curriculum requirement.

**Student Learning Outcomes/Competencies:**
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.

**General Education Core Objectives:**
1. **Critical Thinking:** Students will develop habits of mind, allowing them to appreciate the processes by which scholars in various disciplines organize and evaluate data and use the methodologies of each discipline to understand the human experience.

2. **Communication Skills:** Students will communicate ideas, express feelings and support conclusions effectively in written, oral and visual formats.

3. **Empirical and Quantitative Skills:** Students will develop quantitative and empirical skills to understand, analyze and explain natural, physical and social realms.

**Course Evaluation:** Your final grade will be determined by the average of four tests (400 points) the comprehensive final exam (120 points) and homework assignments (80 points.) A total of 600 points are possible. The number of points earned will follow the grading scale below:

**Grading Scale:**

| | | | |
|---|---|---|---|
| A | 90 to 100 | 537 to 600 points |
| B | 80 to 89 | 477 to 536 points |
| C | 70 to 79 | 417 to 476 points |
| D | 60 to 69 | 357 to 416 points |
| F | Below 60 | 0 to 356 points |

**Exams:** Dates for the 4 major tests and comprehensive final exam are listed on the calendar. **There are NO makeup tests!** If you miss one of the 4 major tests, your final exam will count twice to replace the missing grade. A second missed test will be averaged as a zero. The final exam grade (if higher) will also replace the lowest major exam grade; however, if the final exam is lower than any of the 4 major exam grades, then it will only count once in the course average.

**Homework Assignments:** Homework is assigned from each section covered, and time will be available at the beginning of each class to ask questions. Consistently working problems reinforces the skills and concepts presented, and is essential for success in this course. Focus your effort on being able to complete the problems without any outside resources. Homework assignments will be collected the following class period. All steps/work must be shown and the answer clearly indicated to receive credit. Do not submit "answer sheets." **Absolutely NO late homework assignments will be accepted.** Homework grades comprise approximately 13% of your overall average.

**Bonus Points:** Students will have the opportunity to make corrections on **one** test (final exam not included) of their choosing, for up to 50% of the points missed. Corrections are due the following class period after the test is handed back. Test corrections must have complete and correct solutions and be turned in on a separate sheet of paper **with** the exam.

**Tutoring:** Students can obtain free tutoring in room M116 in the math building on the South Plains Campus in Levelland or in Building 2 at the Reese Center. Tutoring schedules will be posted on campus. Please remember to sign in when you seek the help of a tutor in each of these places.

**Additional Resources:** Blackboard is the online management system used for this course. Your grades, along with the course syllabus, handouts, reviews, and other resources can all be accessed through Blackboard. PowerPoint slides accompanying this textbook are available on Blackboard and handouts may be printed. Opportunities for additional points are occasionally posted. **Be sure to check Blackboard and your SPC email account regularly for class announcements and updates.**

**Attendance Policy:**  Attendance will be taken every class period.  Students who arrive late, leave early, sleep during class, or **access their cell phones during class,** may be counted absent. Whenever absences become excessive and, in the instructor's opinion, minimum course objectives cannot be met due to absences, the student will be withdrawn from the course. **Any student who misses 3 consecutive classes or exceeds 5 absences throughout the semester will be administratively dropped and receive a grade of X or F.** Students wishing to drop this class must see the registrar by Thursday, November 14, 2019 to officially withdraw and receive a grade of W.

**Classroom Civility:**  Students are expected to be respectful of their fellow classmates and maintain a classroom environment that is conducive to learning. Turn off all cell phones and other electronic devices **before** entering the classroom. **Use of cell phones during class will not be tolerated! You will receive ONE verbal warning, after which you will be asked to leave and receive a zero for that day's assignment.**  Refrain from using offensive language, talking loudly or off-topic, working on outside assignments, chewing tobacco products, or otherwise being disruptive in class. Food and/or drinks are NOT allowed in the classroom.

**Academic Honesty:**  Students are expected to uphold the ideas of academic honesty. Academic dishonesty includes, but is not limited to, cheating on tests, collaborating with another student during a test, copying another student's work, using materials not authorized, and plagiarism. **Use of a graphing calculator, cell phone, or other electronic devices or apps during any in-class assignment or exam will result in a grade of zero.**  Leaving the classroom during an exam will not be permitted.  Students who do not follow the academic honesty policy will receive a grade of zero for the assignment, and may be dropped from the course with an F, or face possible suspension from the college.

**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.

**Disabilities 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.

**Non-Discrimination Statement:**  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.

# MATH 1332.201– FALL 2019 (tentative schedule)

| Week | | Tuesday | | Thursday |
|---|---|---|---|---|
| **1** | Aug. 27 | Syllabus, review chapters 5, 6 | Aug. 29 | 6.5, conversions supplement |
| **2** | Sep. 3 | 7.1, 7.2 | Sep. 5 | 7.2 (cont.) 7.3 |
| **3** | Sep. 10 | 7.4, 7.5 (scientific notation only) | Sep. 12 | 7.7 |
| **4** | Sep. 17 | 8.1 | Sep. 19 | **TEST 1 – chapters 6, 7** |
| **5** | Sep. 24 | 8.2, 8.3 | Sep. 26 | 8.4, 8.7 |
| **6** | Oct. 1 | 8.7 (cont.) 8.8 | Oct. 3 | 2.2, 2.3 |
| **7** | Oct. 8 | 2.4 | Oct. 10 | 3.1, 3.2, 3.3 |
| **8** | Oct. 15 | **TEST 2 – chapter 8, 2** | Oct. 17 | 3.4, 3.6 |
| **9** | Oct. 22 | 10.1, 10.2 | Oct. 24 | 10.3, 10.5 |
| **10** | Oct. 29 | 11.1, 11.2 | Oct. 31 | 11.3, 11.5 |
| **11** | Nov. 5 | 12.1, 12.2 | Nov. 7 | **TEST 3 – chapters 3, 10, 11** |
| **12** | Nov. 12 | 13.1, 13.4 | Nov. 14 | 9.2, 9.3 |
| **13** | Nov. 19 | 9.4, 9.5 | Nov. 21 | 14.2, 14.3 |
| **14** | Nov. 26 | 14.4, 14.5<br>**TEST 4 – chapters 12, 13, 9** | Nov. 28 | **THANKSGIVING** |
| **15** | Dec. 3 | 14.6 | Dec. 5 | **REVIEW** |
| **16** | Dec. 10 | **NO CLASS** | Dec. 12 | **FINAL EXAM**<br>**8:00 am – 10:00 am** |

**\*\*\*Last day to drop is Thursday, November 14, 2019\*\*\***