

South Plains College
Math 2412 – Pre-calculus (4:3:2)
Course Syllabus
Fall 2017

Instructor: Diane Eagle
Office: M106 (mathematics building)
Phone: 806-716-2736
E-mail: deagle@southplainscollege.edu

Office Hours:

Monday	Tuesday	Wednesday	Thursday	Friday
1:00 – 2:30 3:45 – 4:00 Reese	11:45 – 12:30	1:00 – 2:30 3:45 – 4:00 Reese	11:45 – 12:30	9:00 – 12:00

Prerequisites: Two units of high school algebra or successful completion of MATH 1314.

Textbook: Precalculus, Neal, Gustafson, Hughes. 1st edition. Brooks/Cole Cengage Learning

Supplies: Pencils, paper, straightedge, protractor, and graph paper. **Only a basic non-graphing calculator (such as a TI-30) will be allowed in class.** Calculators on cell phones, graphing calculators, or other electronic devices will **NOT** be allowed during tests or in-class assignments. Calculators may not be allowed on certain assignments and/or portions of exams. Arrive prepared to take notes every day.

Course Description: This course covers the study of algebraic, polynomial, rational, exponential, logarithmic, and trigonometric functions. Topics in analytic geometry are covered.

Course Purpose/Rational/Goal: This course is designed for students who intend to take the standard sequence of Calculus courses.

Student Learning Outcomes/Competencies*:

Upon successful completion of this course students will:

1. Demonstrate and apply knowledge of properties of functions. (1.2, 1.6, 1.7)
2. Recognize and apply algebraic and transcendental functions and solve related equations. (2.1–2.5, 3.6, 4.2, 4.3)
3. Apply graphing techniques to algebraic and transcendental functions. (2.1–2.5, 4.4, 4.5, 7.2)
4. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians. (4.1, 4.2)
5. Prove trigonometric identities. (4.3, 5.3)
6. Solve right and oblique triangles. (6.1–6.4)

*Developed by the Coordinating Board and the Faculty of South Plains College's Math and Engineering Department.

Core Objectives:

Communication Skills:

- Develop, interpret, and express ideas through written communication
- Develop, interpret, and express ideas through oral communication
- Develop, interpret, and express ideas through visual communication

Critical Thinking:

- Generate and communicate ideas by combining, changing, and reapplying existing information
- Gather and assess information relevant to a question
- Analyze, evaluate, and synthesize information

Empirical and Quantitative Competency Skills:

- Manipulate and analyze numerical data and arrive at an informed conclusion
- Manipulate and analyze observable facts and arrive at an informed conclusion

Course Evaluation: Your final grade will be determined by the average of 4 major tests (400 points) the comprehensive final exam (100 points) and daily homework assignments (100 points.) The lowest grade of the four tests will be dropped, provided the student completed the course and took the final exam. The final exam is NOT eligible to be dropped. There are 500 points possible. The number of points earned will follow the grading scale below:

Grading Scale:	A	90 to 100	448 to 500 points
	B	80 to 89	398 to 447 points
	C	70 to 79	348 to 397 points
	D	60 to 69	298 to 347 points
	F	Below 60	0 to 297 points

Exams: Dates for the 4 major tests and comprehensive final exam are listed on the calendar. A portion of each exam may be designated as “no calculator allowed.” **There are NO makeup tests!** If you miss one of the 4 major tests, you may qualify to have that missing grade dropped at the end of the semester (see requirements above.)

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 every day reinforces the skills and concepts presented, and is essential for success in this course. 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.” In the event of an absence, you must email your assignment to me on or before the day it is due. **Absolutely NO late homework assignments will be accepted.** Homework grades comprise 20% of your overall average.

Bonus Points: Occasionally, tests will include a bonus problem, or a bonus problem may be assigned to complete outside of class. Opportunities for extra points are sometimes posted on Blackboard as well. Students will have the opportunity to make corrections on **one** test (final exam not included) of their choice, for up to 50% of the points missed. Corrections are due the following class period after the test is handed back and must be turned in on a separate sheet of paper **WITH** the exam. Bonus points add into the cumulative points earned.

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: SPC produced videos of many topics are also available and a link is provided on Blackboard for online viewing. Additional free tutorial videos are available at the following sites: <http://patrickjmt.com/>, <http://www.mathtv.com/>, and <http://www.khanacademy.org/>. These links are posted on Blackboard.

Attendance Policy: Attendance will be taken every class period. Students who arrive late, leave early, sleep during class, or fail to sign the attendance sheet 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 16, 2017 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. The instructor reserves the right to ask a student to leave if his/her cell phone is left on and disrupts the class. 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 device 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.

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) and Lubbock Center 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

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, please refer to the SPC policy at: (http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.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 911.