



Instructor: Evan Vargas
Office: AG107, Agriculture Building, Levelland Campus
Phone: (806) 716-4673
Email: evargas@southplainscollege.edu
Office Hours in Levelland Campus:
 M: 11:30-2:00 TR: 11:30-2:00 F: 9:00-12:00
Or by Appointment

Mathematics 2412 – Pre-Calculus
Section 002: Monday/Wednesday 2:30-4:35 PM
Room: Agriculture 105, Levelland Campus

Course Information

Textbook *Precalculus: A Right Triangle Approach* by Ratti, McWaters, and Skrzypek, 4th edition, 2019, Pearson Education

Materials Pencils, 3 ring binder, loose paper, and scientific calculator

Description This course covers the study of algebraic, polynomial, rational, exponential, logarithmic, and trigonometric functions as well as analytic geometry.

Purpose Acquaint student with solutions to different mathematical problems covering algebra, trigonometry, and analytic geometry.

Requirements A student should attend all class sessions, take notes, participate in class, complete all homework assignments, pass classroom quizzes, and pass examinations.

- Learning Outcomes**
1. Review basic concepts of Algebra
 2. Solve equations with inequalities
 3. Learn to graph functions
 4. Solve polynomial and rational functions
 5. Learn exponential and logarithmic functions
 6. Learn trigonometric function identities and solve applications
 7. Solve systems of equations
 8. Learn matrices and determinants
 9. Learn conic sections

Grading

Weights	Homework	10%	Grading Scale	90-100	A
	Quiz	10%		80-89	B
	Exam (4)	15% each		70-79	C
	Final Exam	20%		60-69	D
	Total	100%		0-59	F

Homework Assignments Homework will be assigned daily/weekly via class or Blackboard. Homework will be collected at the beginning of class without receiving penalty. Late homework will be accepted as follows.

1. -15% for tardiness
2. -50% for next class
3. -100% otherwise

Quizzes Quizzes will be given once a week and will contain material pertaining to Homework and previous lecture material. No make-up quizzes will be allowed.

Exams Exams will cover material from Homework, Quizzes, and Lectures as indicated by the course itinerary. Examinations will be a combination of open answer, fill in the box, and/or multiple choice. Students need only bring pencils, lead, and erasers. No other material will be required unless stated in class.

Cell phones, smart watches, tablets, computers, etc. **are not allowed** and students will be asked to remove their device(s) or leave the class. Students seen with and using unapproved devices will receive an automatic 0 for the exam and be dropped.

Final Exam A **comprehensive** final exam will be given at the end of the semester. Failure to attempt the final exam will result in a failing grade for the course. The final exam will be given on **Tuesday May 7^h 2019 from 1:00-3:00 P.M.** Conflicting test schedules must be worked out with instructors.

Classroom Policies

Disclaimer The instructor reserves the right to amend any class policies as deemed necessary by the instructor or South Plains College and will announce any changes in class. If a student has any questions about a change in policy ask the instructor.

Computer Class Policy **ABSOLUTELY NO FOOD ALLOWED.** Drinks must have a threaded cap to be allowed and must be put away when not in use. Music devices during lab assignment times are acceptable. Each workstation must be cleaned and straightened before leaving the area.

Class Cancellation Policy In the event of class being canceled by the school/instructor, the student will be responsible for the lecture material missed. The class will continue on the following class day. All information will be on Blackboard and/or sent via email to be accessed by the student.

Attendance Policy Records of student attendance are maintained throughout the semester. Three absences, **for any reason**, are allotted to the student for the semester. Tardies count as one-half of an absence and will be applied for leaving early. Once this condition is exceeded, the instructor has the right to drop the student with an F or X grade at their discretion.

Withdrawal To withdraw from this class, the student will need to go to the Admissions and Records office either on the Levelland campus or the Reese Center campus, and fill out a drop notification form.

Email Policy The instructor will only acknowledge, respond, and send emails to your assigned SPC email. This ensures the intended recipient receives all correspondence from the instructor.

Final Grading Policy All grades are rounded from the tenths place, e.g. 80.5 = 81, 80.49 = 80. Upon the submission of grades at the end of the semester. **ALL GRADES ARE FINAL**

Returning Grades Policy The instructor will attempt to return grades by the next class meeting; however, the instructor reserves the right to have at least one (1) week to grade assignments and post grades from the due date.

Religious Holy Days Section 51.911, Texas Education Code, South Plains College will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within seven (7) calendar days after the absence. Students are required to file a written notification of absence with each instructor within the first fifteen (15) days of the semester (**Friday, 14 September 2018**) in which the absence will occur. Forms for this purpose are available in the Student Services Office along with instructions and procedures. "Religious holy days" means a holy day observed by a religion whose place of worship is exempt from property taxation under Section 11.20, Tax Code.

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 appropriate arrangements may be made.
Diversity Statement	The instructor 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 everyone to learn about others, the larger world, and 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.
Sexual Misconduct	It is important for students to know that all faculty members are mandated reporters of any incidents of sexual misconduct. Faculty cannot keep information about sexual misconduct confidential if students share that information. SPC offers advisors that students can confidentially seek out in the Health & Wellness Center. These advisors have the best interest in students and information can be accessed on campus or even in the local community.
Campus Concealed Carry	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.
Academic Honesty	Students are expected to uphold the ideas of academic honesty; all work that is submitted for grading must be your own. Violation of this policy will result in an F for the assignment(s) and the student dropped with an F. For more details on what is considered cheating, see the South Plains College catalog.
Equal Opportunity	South Plains College strives to accommodate the individual needs of all students in order to enhance their opportunities for success in the context of a comprehensive community college setting. It is the policy of South Plains College to offer all educational and employment opportunities without regard to race, color, national origin, religion, gender, disability, or age.
Holiday/ Travel Statement	If a student has any pre-existing plans to travel during scheduled class times, the student must inform the instructor no later than Wednesday, September 5th, 2018 . Failure to properly inform of any missed class will result in forfeiture of any graded class work with no allowable replacement/make-up work.
Recording Devices	Students are not allowed to use recording devices such as audio or video during class unless approved by the instructor

Course Itinerary Planned schedule; subject to change as necessary.

Week 1	January 14	Introduction , Math Notation, Chapter 1: Solving Single Variable Equations
	January 16	Complex Numbers, Inequalities, Absolute Values, Chapter 2: Coordinate Plane
Week 2	January 21	Martin Luther King Holiday – No Class
	January 23	Graphing Properties, Equation of a Circle, Equation of Lines, Transformations
Week 3	January 28	Inverse Functions, Function Algebra, Composite Functions, Evaluations
	January 30	Chapter 3: Quadratic Functions – Solutions and Graphing, Radical Functions
Week 4	February 4	Examination 1
	February 6	Long/Synthetic Division, Polynomial Functions – Solutions and Graphing
Week 5	February 11	Division by zero, Rational Functions – Solutions and Graphing
	February 13	Chapter 4: Exponential Functions – Solutions and Graphing
Week 6	February 18	Logarithm Functions – Solutions and Graphing, Inequalities
	February 20	Chapter 5: Radian/Degree Angles, Right-Triangle Trig, Unit Circle
Week 7	February 25	Trig Functions of Angles, Graphing Sine and Cosine
	February 27	Examination 2
Week 8	March 4	Graphing Tangent and other Trig Functions, Inverse Trig Functions
	March 6	Chapter 6: Trig Identities, Sum and Difference Formulas
Week 9	March 18	Double-Angle and Half-Angle Formulas, Product-to-Sum, Sum-to-Product
	March 20	Solving Trig Equations 1 and 2
Week 10	March 25	Chapter 7: Law of Sines and Cosines, Vectors and Dot Products
	March 27	Direction and Magnitude, Polar Coordinates
Week 11	April 1	Examination 3
	April 3	Chapter 8: Systems of Linear Equations with Two Variables
Week 12	April 8	Systems with Three Variables, Partial-Fraction Decomposition
	April 10	Systems of Nonlinear Equations, Systems of Inequalities
Week 13	April 15	Chapter 9: Matrices and Systems of Equations
	April 17	Matrix Algebra, Inverse Matrix, Determinants and Cramer’s Rule
Week 14	April 22	Easter Holiday – No Class
	April 24	Examination 4
Week 15	April 29	Chapter 10: Conics Overview, Parabolas OR Cal 1 Preview
	May 1	Final Examination Review
Week 16	May 7	Final Exam: 1:00-3:00 P.M