

Math 2412.376

College Pre-Calculus Syllabus

Taught at Olton High School

MATHEMATICS DEPARTMENT

Mathematics 2412

College Pre-Calculus

Division of Arts and Sciences

South Plains College

Fall 2020 – Spring 2021

Charles E. Tabor

Olton High School

Dual Credit Adjunct Professor

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Course Grading Procedures, Attendance Policy, Make-Up Work, and Behavior expectations are attached on a separate sheet of paper. Olton students will enroll for this dual credit class in November, 2021 for the Spring Semester of 2021. This class is taught as a college credit class the entire school year.

By the end of this course a student should be able to (if passing this course):

- 1. Solve and graph problems involving linear, quadratic, exponential, and logarithmic functions;**
- 2. Solve and graph linear, quadratic, and rational inequalities;**
- 3. Identify and simplify complex numbers;**
- 4. Combine, calculate, and identify inverse functions;**
- 5. Analyze and graph polynomial functions;**
- 6. Analyze and graph rational functions;**
- 7. Create and solve systems of equations;**
- 8. Apply the Binomial Expansion Theorem to expand binomials of higher degree;**
- 9. Apply the Rational Zero Theorem;**

- 10. Solve and graph the Conic Sections, including circles, parabolas, hyperbolas, and ellipses;**
- 11. Solve and identify in relation to derivatives the Difference Quotient;**
- 12. Take the derivative of functions using the definition of derivative in limit form and shortcut form;**
- 13. Find equations of normal and tangent lines;**
- 14. Introduce the uses of derivatives in real world settings.**

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.

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](mailto:cgilster@southplainscollege.edu) for assistance.