

**Math 1314.368 18/1S**

**College Algebra Syllabus**

**MATHEMATICS DEPARTMENT**

**Division of Arts and Sciences**

**South Plains College**

**Fall 2018**

**Charles E. Tabor**

**Olton High School Dual Credit**

**Adjunct Professor**

**Instructor: Charles Tabor**  
**Olton High School**  
**P.O. Box 388**  
**Olton, TX 79064**  
**(806) 285-2691**  
**ctabor@oltonisd.org**

**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 August, 2018. This class is taught as a college credit class during the Fall Semester.**

**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. Apply midpoint, distance and circle formulas;**
- 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.**

## Mr. Tabor's Classroom Guidelines – 2018-2019

### Materials Needed for Class DAILY!

1. Folder (DO NOT BRING A SPIRAL IN MY CLASSROOM)
2. Textbook, Paper, Pen, and Pencils

### Classroom Guidelines

1. All students will be prepared for class by the time the tardy bell begins to ring.
2. You will be expected to maintain verbal and physical self-control at all times.
3. You are to treat others with the same respect with which you wish to be treated.
4. You are responsible for your own actions.
5. You are not allowed to leave your seat without my permission.
6. Homework and quizzes will be given 2-7 times weekly.
7. If you are absent, you will be expected to have the missed assignment completed and handed in to me within the day(s) absent +1.
8. If you have an unexcused absence, you will be expected to follow the same guidelines as in No. 7.
9. Dishonesty is not allowed, nor necessary.
10. You will receive a "0" on an assignment you do not hand in.
11. You will receive a "0" for dishonesty on any test, quiz, or assignment.
12. All assigned work will be graded, recorded, and included in your grade average.
13. All South Plains College policies will be followed.
14. Work hard, have fun and be successful!
15. Any absences that exceed 5 for the semester must be made up and agreed to by the teacher according to South Plains rules for attendance.

### Classroom Procedures

1. Class will normally begin before the tardy bell rings.
2. Except for testing days, we will check homework and/or have a quiz.
3. *EVERY PAPER YOU HAND IN MUST HAVE A CORRECT HEADING.*
4. *All classroom notes need to be taken in black or blue ink.*

#### EXAMPLE:

Subj.-Period-Type of Assignment (HW,PQ,BW,NOTES)

YOUR NAME

Chapt.-Section-Page

DATE

### How Grades Are Calculated

40% Daily Grades and Participation      60% Tests

You will have at least 2 tests each 3-Week grading period plus a notebook grade, Pop Quiz Average and Homework Average.

**THIS SHEET MUST BE KEPT IN YOUR NOTEBOOK ALL YEAR!!!!!!** You will need to have your parents sign this second sheet and then return it to me.

I \_\_\_\_\_ have read, understand, and expect these guidelines to be enforced.      Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Parent's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Math 2412.368 18/1S and 19/2S**

**College Pre-Calculus Syllabus**

**MATHEMATICS DEPARTMENT**

**Division of Arts and Sciences**

**South Plains College**

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**Fall 2018 – Spring 2019**

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**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.**

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