



**Instructor: Evan Vargas**  
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**Office Hours in Levelland Campus:**  
 M: 11:30-2:00 W: 11:00-1:30 F: 9:00-12:00  
*Or by Appointment*

**Mathematics 1314 – College Algebra**  
**Section 008:** Tuesday/Thursday 11:00-12:45 PM  
**Room:** AG102, Levelland Campus

**Course Information**

**Textbook** *College Algebra with Intermediate Algebra A Blended Course* by Beecher, Penna, Johnson, Bittinger, 2017, Pearson

**Materials** Pencils, erasers, and paper

**Description** This is a standard course in college algebra. Quadratic equations; ratio and proportion; variation; binomial theorem; inequalities; complex numbers; theory of equations; determinants and matrices.

**Purpose** The purpose of the course is to provide a fundamental background in algebra to meet the mathematics requirement for the core curriculum and to provide a basis for further study in mathematics.

**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. Demonstrate and apply knowledge of function properties, domain and range, operations, compositions, and inverses
  2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations
  3. Apply graphing techniques
  4. Evaluate roots of higher degree polynomial and rational functions
  5. Recognize, solve, and apply systems of linear equations using matrices

**Grading**

<b>Weights</b>	Homework	10%	<b>Grading Scale</b>	90-100	A
	Quiz	10%		80-89	B
	Exams (4)	15% each		70-79	C
	Final Exam	20%		60-69	D
	<b>Total</b>	<b>100%</b>		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 period
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 **Monday December 10<sup>th</sup> 2018 from 10:15-12:15 A.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** Students are expected to attend all classes in order to be successful in this course. The student will be administratively withdrawn from the course when absences become excessive. **If a student is reported absent for three days during the semester without prior consent to instructor or for emergency reasons, that student will be dropped from the course.** If a student should be absent during the schedule class times the student must notify the instructor otherwise any work will be forfeited.

**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.

**Diversity Statement** In this class, the teacher will establish and support an environment that values and nurtures individual and group differences as well as 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.

<b>Disabilities Statement</b>	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
<b>Religious Holy Days</b>	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 ( <b>Friday, February 1<sup>st</sup> 2019</b> ) 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.
<b>Sexual Misconduct</b>	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.
<b>Campus Concealed Carry</b>	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 and Frequently Asked Questions, please refer to the Campus Carry page at: <a href="https://www.southplainscollege.edu/campuscarry.php">https://www.southplainscollege.edu/campuscarry.php</a>
<b>Academic Honesty</b>	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 letter grade. For more details on what is considered cheating, see the South Plains College catalog.
<b>Equal Opportunity</b>	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.
<b>Recording Devices</b>	Students are not allowed to use recording devices such as audio or video during class unless approved by the instructor
<b>Resources</b>	Students may utilize free tutoring provided by SPC. Tutoring is available at all SPC campus locations. Please consult with the instructor for further information.
<b>Non-Discrimination Statement</b>	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.

**Course Itinerary**      Planned schedule; subject to change as necessary.

<b>Week 1</b>	January 15	<b>Introduction</b> , Review of Basic Algebra, Math Notation, Absolute Values
	January 17	Linear Equations, Solving, and Inequalities
<b>Week 2</b>	January 22	Graphs of Linear Functions, Domain and Range
	January 24	Function Algebra and Composition of Functions
<b>Week 3</b>	January 29	Systems of Equations in Two Variables, Solve by Substitution and Elimination
	January 31	Systems with Three Variables, Graphing Systems of Equations
<b>Week 4</b>	<b>February 5</b>	<b>Examination 1</b>
	February 7	Quadratic Equations, Solving, and Inequalities
<b>Week 5</b>	February 12	Graphs of Quadratic Functions, Domain and Range
	February 14	Increase, Decrease, Piecewise, Symmetry, Transformations
<b>Week 6</b>	February 19	Factoring Quadratics, Complete the Square, Quadratic Formula
	February 21	Complex Numbers, Radical Equations and Solving
<b>Week 7</b>	February 26	Graphs of Radical Functions, Domain, Range, and Transformations
	<b>February 28</b>	<b>Examination 2</b>
<b>Week 8</b>	March 5	Polynomial Equations, Solving Techniques
	March 7	Polynomial Division
<b>Week 9</b>	March 19	Graphing Polynomial Functions, Applying Transformations
	March 21	Rational Equations, Solving and Inequalities
<b>Week 10</b>	March 26	Graphs of Rational Functions, Domain, Range, and Transformations
	March 28	Polynomial and Rational Function Inequalities
<b>Week 11</b>	<b>April 2</b>	<b>Examination 3</b>
	April 4	Inverse Functions and Graphing. Exponential Function Properties
<b>Week 12</b>	April 9	Solving and Graphing Exponential Functions. Logarithm Properties
	April 11	Solving and Graphing Logarithm Functions
<b>Week 13</b>	April 16	Applications: Growth and Decay and Compound Interest
	April 18	Matrices and System of Equations
<b>Week 14</b>	April 23	Determinants and Cramer's Rule
	<b>April 25</b>	<b>Examination 4</b>
<b>Week 15</b>	April 30	Conics, Circle and Ellipse Equations
	May 2	<b>Final Examination Review</b>
<b>Week 16</b>	<b>May 7</b>	<b>Final Exam: 10:15-12:15 PM</b>