

MATH 1314 (3:3:1)  
COLLEGE ALGEBRA

**MATHEMATICS DEPARTMENT**

Division of Arts & Sciences

*South Plains College*

**FALL 2023**

Shirley Davis

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# South Plains College

## MATH 1314 – College Algebra

*Section 007, M W 11:00 – 12:45 pm*  
*Section 010, T R 9:00 – 10:45 am*  
*Section 011, T R 11:00 – 12:45 pm*

**Math Bldg., Rm. 126**  
**Math Bldg., Rm. 105**, respectively  
**Math Bldg., Rm. 105**

### I. Instructor Info

**Professor:** Miss S. Davis

**Office:** 103 MATH Bldg.

**Phone:** (806) 894 – 9611 ext. 2699

**E-mail address:** [sdavis@SouthPlainsCollege.edu](mailto:sdavis@SouthPlainsCollege.edu)

### Office Hours:

Table 1 – Office Hours

Monday	Tuesday	Wednesday	Thursday	Friday
8 – 8:30a 2:15 – 4:45p	8 – 9a		8 – 9a	8 – 11a
<i>or by appointment</i>				
At these designated times, I will be available either physically in my office or virtual to help you. You do not need an appointment for the physical (f2f) office hours. When you come by, I may be assisting another student, but please wait patiently, and I will attend to you eventually.				

### II. Course Info

#### **Text:**

College Algebra, 7<sup>th</sup> ed. by Robert Blitzer, 2018 Pearson (ISBN: 978-0-13-446916-4)

#### **Supplies:**

Scientific calculator (or graphing calculator), Graph paper, a ruler, *(at least a 3 in ring) notebook*, hole puncher, stapler, a staple puller, & a red pen/pencil.

(If your lack of responsibility results in you asking to borrow any of the supplies from me then there will be automatic 5 point deduction from your final grade. **Bring your supplies to class everyday!**)

#### **Purpose:**

This course is to provide a standard course in college algebra. Topics included: quadratic equations, ratio & proportion, variation, the binomial theorem, progressions, inequalities, complex numbers, theory of equations, determinants & matrices, linear programming, mathematical induction, and permutations & combinations.

### III. Attendance Policy

#### **Attendance:**

Lectures, effort, engagement, and Q&A are the most important activities for success in this course. The instructor maintains records of the student's attendance and submission of assignments throughout the semester. Maintaining a time management schedule for the online video lectures is crucial to avoid lagging in this class. The student is expected to attend at least eighty percent (80%) of the total class meetings and submit at least eighty percent (80%) of the total class assignments to have the best chance of success. If the student fails to meet these minimum requirements, the instructor has the right to drop the student with a grade of F or an X, depending on the instructor's discretion.

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## IV. Equipment

### A. Online Essentials:

- 1.) Internet access
  - Working, reliable internet access with the ability to participating in online conferences via Blackboard or Zoom.
  - Libraries, school and public communities, are a great source to computer accessibility.
- 2.) Computer (laptop highly recommended)
  - *Method to scan homework/tests.* You may be expected to scan your homework/tests and turn your homework (counting as the Notebook grade) in to the instructor under **verified extenuating circumstances**<sup>1</sup>.
  - *Method(s) of scanning handwritten work to submit.* The free app CamScan is available. It is very user friendly and the scans are usually clear. You can scan a group of pages called a “batch”. If you have another suggestion then please feel free to contact me. Practice makes perfect in terms of time duration and thoroughness for these methods.
- 3.) Webcam
  - An online video conference program will be used as a tool to attend live lectures online through Blackboard and to monitor work activity under **verified extenuating circumstances**. Thus, online video conferencing requires students to have a webcam. If class must be attended virtually (Zoom, Blackboard Collaborate, etc.) due to **verified extenuating circumstances** then video and audio must be operable and executed during the entire class session for attendance or any other matter of credit.
- 4.) **Blackboard (Bb)**
  - The online course management system that will be used for this course.
  - A wealth of information is provided to you for this class in the **CA Bb**. All the information for this class will exist on Blackboard including but not limited to syllabus & compendium, homework assignments, worksheets supplements, videos, & etc., but additional material involves COVID material, Classroom Conduct, Technological & Equipment info & assistance, Tutoring opportunities, previous semester student evaluations, and miscellaneous administrative information. Please be responsible to log in to Blackboard and visit **CA Bb** page and peruse through it to become familiar with all the items.
    - Login at <http://southplainscollege.blackboard.com> . The user name and password should be the same as the MySPC and SPC email.
      - User name: first initial, last name, and last 4 digits of the Student ID
      - Password: Original Campus Connect Pin No. (located on SPC acceptance letter)
  - *Technical Support:* Student support is available by emailing [blackboard@southplainscollege.edu](mailto:blackboard@southplainscollege.edu) or calling 716-2962. When emailing a request for help, include your full name, course(s) enrolled in, name of instructor(s) and a phone number where you can be reached.
  - *Blackboard Tutorials.* Blackboard video tutorials are available at <http://ondemand.blackboard.com/students.htm>.
  - *Blackboard App.* A free Blackboard App is highly suggested and recommended and can be downloaded in the APP store specific to your cell phone and can be found on **CA Bb**.
- 5.) Calculator
  - A scientific calculator for this course is recommended.
  - Acceptable: TI-83, TI-83+, TI-84, TI-84+, or TI-84+ Silver Edition but many others are also acceptable.
  - Any other graphing calculator, you will need to read you manual to determine how to make the processes work.
  - The TI graphing calculator model is not allowed in this class: TI-Nspire.
  - Cell phones and similar devices may NOT be used as calculators and no sharing of calculators is allowed.
- 6.) Other Resources
  - You are expected to keep up with the schedule set forth by the due dates of the homework assignments and the exams. If you need help, please ASK! Here are some other good resources online:
    - Your instructor is your first and BEST resource for any help!!!!
    - Free online math videos at [www.khanacademy.org](http://www.khanacademy.org), [www.patrickjmt.com](http://www.patrickjmt.com), [www.mathtv.com](http://www.mathtv.com), & MIT Opencourseware.
- 7.) Troubleshooting
  - Computer Issues
    - If your personal computer becomes "disabled", then you will need to seek an alternate computer source.

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<sup>1</sup> Referenced in this document.

## V. Coursework Policies

### Assignment Policy:

Homework will be assigned daily. The homework assignments may be graded periodically. *However, the practice is required in order to more fully understand each topic and to successfully negotiate the quizzes and the tests.*

**Late homework is not accepted.**

### Assessments:

There will be random quizzes given over the assigned homework in which no make-ups will be allowed. The total number of quizzes for the semester is unpredictable but only a portion will count as the quiz grade. **Make-up quizzes will NOT be given.**

Worksheets could also be distributed and subjected for grading.

### Tests:

There will be four tests (final exam exclusive) face-to-face (f2f) unless circumstances change. Exams will be f2f unless there exist **verified extenuating circumstances** in which the exams will be conducted online through virtual meetings. Virtual invitations will be delivered through Blackboard via announcements and/or Bb email on or before exam days. The final exam will be comprehensive. If the final exam score is greater than any non-zero major exam score then the final exam score replaces the major exam score. In other words, the major exam score will be deleted, and the final exam score will count two times (an exception is the Honest Effort Rule (H.E.R.) policy). See your OUTLINE for the approximate date for each test.

### Make-up Policy:

There is no automatic provision for making up exams. Only under **verified extenuating circumstances** (e.g., death in the family, hospitalization, +COVID test) will make-up exams be inevitable. These situations will be dealt with on a trial-by-trial basis. If at all possible, the instructor should be notified prior to missing an exam.

If you happen to miss an exam, a grade of **0** will be administered, and under the **H.E.R.** (Honest Effort Rule), this missed exam of grade **0** will not be replaced by the final exam even if the final exam is greater.

### Grading Policy:

Your final grade will be based solely on major exam scores, quiz average, and a comprehensive final.

### Grading Score:

$$\text{Final score} = \frac{\text{Test 1} + \text{Test 2} + \text{Test 3} + \text{Quiz Avg.} + \text{Final Exam score}}{5}$$

**NOTE:** If the final exam score is greater than the least non-zero major exam score (excluding the Homework/Quiz avg.) then the final exam score replaces the least non-zero major exam score. In other words, the major exam score will be deleted and the final exam score will count two times.

### Grading Scale:

Table 2 - Grading Scale

A:	90 and above	D:	60 – 69
B:	80 - 89	F:	59 or below
C:	70 - 79		

**Borderline Grades:** These grades will be evaluated with regard to attendance and mature conduct in class.

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**Study:**

You should normally spend approximately 2-3 hours outside of class to study for each hour of lecture. Some material will require more time than other material. Also, your mathematical background is a major factor in the time spent completing the homework. Try to study the assigned lesson as soon after the class meets if possible. With your greatest effort, try not to get behind on the homework! Refer to the “How to Study” sheet for further detailed studying suggestions.

**Notebook:** Homework, quizzes, tests, and other useful material should be kept in a notebook in which the notebook will be used as a reference and study guide. The notebook will be brought to class everyday! The following material will be placed in the notebook in the order listed:

Table 3 – Notebook Material

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>a.) Cover sheet including Name, Class, and Semester,</li> <li>b.) Syllabus,</li> <li>c.) Procedure pages,</li> <li>d.) Assignment sheet,</li> <li>e.) Notes,</li> </ul> | <ul style="list-style-type: none"> <li>f.) Work,</li> <li>g.) Quizzes,</li> <li>h.) Tests, &amp;</li> <li>i.) Miscellaneous</li> </ul> |
|--|--|

\*To print all the material for your notebook, please visit the **CA Blackboard** page. All printed material needs to be read at least once during the term of this course.\*

**Tutoring:**

Free tutoring is available in the Math-Engineering building (Levelland campus, room M116) and online. For the Math-Engineering building tutor, please remember to sign in when you seek help from a tutor. For free online tutoring, please refer to **CA Bb**.

**Video Review Recordings:**

Video Review Recordings for many topics in this course are available in the Math. Department AVT lab (Rm. 116 of the Levelland campus). The web address for the online videos is as follows (<http://spc.blackboard.com/webct/entryPageIns.doweбет>). For username and password, please use *mvideos*. For the AVT lab on the Levelland campus, students are allowed to check the tapes out, view them in the office, or duplicate them with the equipment available in Rm. 116.

Table 4 – Math Video Reviews

Tape	Topic	Tape	Topic
<b>College Algebra</b>			
39, 60, 105, 106, 107	Factoring	132, 133	Exponential & Logarithmic Functions
122, 301	Lines & Slope	146	Binomial Theorem
49, 124	Functions	134	2 x 2 systems
	Functions – Domain – Range Part 1	135	3 x 3 systems
	Functions – Domain – Range Part 2	137	m x n systems
67, 116	Complex Numbers	140	Operations with matrices
64, 110	Linear Equations	50, 138	Solving systems of equations using matrices
112, 113, 114	Quadratic Equations	142	Determinants
118	Other Types of Equations	144	Cramer’s Rule
<b>Analytical Geometry</b>			
310	Parabolas		Parametric Equations
320	Ellipses	335	Polar coordinates
325	Hyperbolas		

**Critical Dates:**

Table 5 - Special Dates

<i>Sept 4</i>	Labor Day	<i>Nov 10</i>	<b>WEB Pre-registration for Summer &amp; Spring Interim 2024</b>	
<i>Oct 20</i>	FALL Break	<b>Final Exams</b>		
<i>Nov 22-24</i>	Thanksgiving	<i>Dec 11</i>	<i>007</i>	<i>(10:15 – 12:15p, Monday)</i>
<i>Nov 30</i>	Last Day to Drop	<i>Dec 12</i>	<i>011</i>	<i>(10:15 – 12:15p, Wednesday)</i>
		<i>Dec 14</i>	<i>010</i>	<i>(8 – 10a, Thursday)</i>

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## VI. Responsibilities & Consequences

### Student Responsibilities:

- Attend class and be aware of announcements made in class.
- Work homework problems early enough to seek help if needed.
- Form study groups.
- Get help from tutors, tapes, and/or the instructor.
- Read and know the attendance policy.
- All students are encouraged to implement good hygiene measures such as washing hands regularly, using hand sanitizer, and covering coughs/sneezes. Hand sanitizing stations are available across all SPC locations.
- **\*\* Please, turn off cell phones and pagers during class! \*\***
  - **If the instructor determines that activation of a cell phone, pager, PDA, Ipad, laptop, or any electronic device interrupts the lecture or classroom discussion or impedes the progress of any student then the instructor may ask the student to leave the class temporarily or permanently.**
  - **No technologic devices such as cell phones, PDA's, etc. are to be used during tests.**
- **Follow the classroom policy, no food or drink allowed in the classroom if posted.**
- **In addition to the No Food or Drink classroom policy and in accordance to campus policy, no tobacco products are to be permitted and consumed in class.**
- **Do not dress for the beach or for bed.**
- **You will obtain your final grade for the class through Texan Connect &/or Colleague.**

### Cell Phone Policy:

All students will, during each class period and for its duration, place and keep their cell phone in its deactivated state, provided that they are at the present time in possession of said device, face-down in the right-hand corner and on the top surface of their desk unless the cell phone is used as a laptop function. If a student's cell phone activates and/or the student engages in text messaging during class at anytime during the semester, the student, by the instructor's discretion, could be permanently dismissed from the class for the remainder of the semester. If a student's cell is activated during class and/or the student engages in text messaging determined by the instructor, and **the student chose not to place their phone on top of their desk as mentioned above** then the student will be dismissed from the class by the instructor permanently.

### Academic Integrity:

The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a serious offense and renders the offender liable to serious consequences, possibly suspension. For more detail, see "Academic Integrity" and "Student Conduct" in the South Plains College General Catalog.

You are expected to work alone on all quizzes and tests. You are not allowed to use any electronic device other than your calculator during a quiz or test. If you choose to cheat, you will be withdrawn immediately from this class with a grade of "F."

### Academic Misconduct:

Complete honesty is required from students in all facets of course work including homework assignments, tests, and the final exam. See the South Plains College Catalog for more detail.

### Sanctions for Cheating or Plagiarizing:

A grade of "F" in the course will be assigned to any student caught cheating or plagiarizing; additional sanctions may also be considered. Students are responsible for understanding the meanings of the words cheating and plagiarizing.

## VII. Questions:

I invite all your questions **except** the following:

1. I wasn't able to make it to class. Did I miss anything? (Yes.)
2. Is this going to be on the test? (Perhaps, not directly, but if the ideas were not important, I would not be discussing them in class.)
3. Do you have the test graded? (I normally have the tests graded by the next class day. However, there are times that I do not have them graded but I will have them graded as soon as I can.)

### Verified Extenuating Circumstances

Death in the family, hospitalization, +COVID test, etc. with written proof.

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## VIII. Objectives:

**Course Objectives:** Upon completion of this course and receiving a passing grade, the student will have mastered at least 70% of the course objectives. The course objectives state that the student will be able to:

**Table 6 - Course Objectives**

- |  |   |
|--|---|
| a.) Perform arithmetic with complex numbers  | b.) Solve quadratic equations   |
| c.) Solve linear and absolute value inequalities                                   | d.) Solve quadratic and rational inequalities                                   |
| e.) Graph relations and functions (polynomial & rational)                          | f.) Find the zeros, asymptotes and domains of polynomial and rational functions |
| g.) Use exponential properties to solve exponential equations                      | h.) Use the properties of logarithms to solve logarithmic equations             |
| i.) Solve systems of linear equations using substitution, elimination and graphing | j.) Solve systems of nonlinear equations using substitution                     |
| k.) Solve linear systems using matrices  | l.) Use matrix operations to solve matrix equations                             |
| m.) Determine the inverse of a square matrix                                       | n.) Find the determinant of a matrix.   |
| o.) Apply midpoint, distance, and circle formulas                                  | p.) Use the Binomial Theorem to expand binomials of higher degree               |

## IX. SPC Policies & Procedures

### A. **Diversity: Diversity:**

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.

### B. **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 Special Services Office, preferably, 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 Special Services Coordinator. For more information, call or visit the Special Services Office in the Student Services Building, 894-9611 ext. 2529.

### C. **Nondiscrimination Policy:**

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.

### D. **Sexual Misconduct:**

It is important for you to know that all faculty members are mandated reporters of any incidents of sexual misconduct. That means that I cannot keep information about sexual misconduct confidential if you share that information with me. Dr. Lynne Cleavinger, the Director of Health & Wellness, can advise you confidentially as can any counselor in the Health & Wellness Center. They can also help you access other resources on campus and in the local community. You can reach Dr. Cleavinger at 716-2563 or [lclevanger@southplainscollege.edu](mailto:lclevanger@southplainscollege.edu) or go by the Health and Wellness Center. You can schedule an appointment with a counselor by calling 716-2529.

### E. **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.

### F. **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. For a list of locations, please refer to the SPC policy at:

[http://www.southplainscollege.edu/human\\_resources/policy\\_procedure/hhc.php](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 9-1-1.

Additional and all policies of South Plains College are located on the SPC website.

<https://www.southplainscollege.edu/syllabusstatements/>

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## X. Course Outline

Table 7 - Course Outline

College Algebra Course Outline			
This schedule is tentative and subjective to change. Changes will be announced in class.			
Week		Topics and Sections Covered	
1	8/28, Mon	<b>ASSESSMENT TEST</b> The Number System	
	8/29, Tues		
	8/30, Wed 8/31, Thurs	8.5 Binomial Theorem	
2	9/4, Mon	<i>Labor Day</i>	
	9/5, Tues	1.4 Complex Numbers	
	9/6, Wed	1.4 Complex Numbers 1.2 Linear & Rational Equations	
	9/7, Thurs	1.2 Linear & Rational Equations	
3	9/11, Mon 9/12, Tues	1.3 Formulas (Models) & Applications (one variable only) Factoring	
	9/13, Wed 9/14, Thurs	1.5 Quadratic Equations	
	4	9/18, Mon 9/19, Tues	1.6 Other Types of Equations
9/20, Wed 9/21, Thurs		1.7 Linear & Absolute Value Inequalities 3.6 Polynomial & Rational Inequalities	
5		9/25, Mon 9/26, Tues	Review for Test 1
	9/27, Wed 9/28, Thurs	TEST 1 (Equations)	
	6	10/2, Mon 10/3, Tues	2.3 Linear Functions (Lines) & Slope 2.4 More on Slope 2.8 Distance & Midpoint
10/4, Wed 10/5, Thurs		2.1 Basics of Functions 2.2 More on Functions & their Graphs	
7		10/9, Mon 10/10, Tues	1.3 Literal Equations 3.7 Modeling Using Variation
		10/11, Wed 10/12, Thurs	2.6 Composition of Functions 2.7 Inverse of Functions
	8	10/16, Mon 10/17, Tues	3.1 <i>Quadratic Functions</i> 2.8 <i>Circles</i>
10/18, Wed 10/19, Thurs		TEST 2 (Functions)	
10/20, Fri		<i>Fall Break</i>	
9		10/23, Mon 10/24, Tues	3.2 Polynomial Functions & their Graphs 2.5 Transformations of Functions
	10/25, Wed 10/26, Thurs	3.3 Dividing Polynomials: Remainder and Factor Theorem 3.4 Zeros of Polynomial Functions	
	10	10/30, Mon 10/31, Tues	3.5 Rational Functions & Their Graphs
11/1, Wed 11/2, Thurs		4.1 Exponential Functions 4.2 Logarithmic Functions	
11		11/6, Mon 11/7, Tues	TEST 3 (Polynomial & Rational Functions)
	11/8, Wed 11/9, Thurs	4.3 Properties of Logarithms	
	12	11/13, Mon 11/14, Tues	4.4 Exponential & Logarithmic Equations
11/15, Wed 11/16, Thurs		Review for Test 4	

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Table 8 - Course Outline contd.

<b>13</b>	11/20, Mon 11/21, Tues	TEST 4 (Exponential & Logarithmic Functions)	
	11/22, Wed 11/23, Thurs	<i>Thanksgiving Holiday</i>	
<b>14</b>	11/27, Mon 11/28, Tues	5.1 Systems of Linear Equations in Two Variables 1.3 Formulas (Models) & Applications (two variables only)	
	11/29, Wed 11/30, Thurs	5.4 Systems of Nonlinear Equations in Two Variables 5.5 Systems of Inequalities	
<b>15</b>	12/4, Mon 12/5, Tues	5.2 Systems of Linear Equations in Three Variables 6.5 Determinants & Cramer's Rules	
	12/6, Wed 12/7, Thurs	6.1 Matrix Solutions to Linear Systems (GJE) Review for FINAL Exam	
<b>Finals</b>	12/11, Mon	007	FINAL EXAM: 10:15 – 12:15p
	12/12, Tues	011	FINAL EXAM: 10:15 – 12:15p
	12/14, Thurs	010	FINAL EXAM: 8 – 10a

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### ACKNOWLEDGMENTS

*I owe a debt of gratitude to Mrs. Charlene Perez, Professor of CIS, at South Plains College for tolerating my incessant number of questions and ideas all the while being at my occasional disposal during the semester I attended BCIS 1305 – Business Computer Applications which primarily aided in the shape and refinement of this syllabus in terms of all its bells and whistles.*

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