Math 0314 (3:3:1)
MATH 1314 (3:3:1)
College Algebra Corequisite

MATHEMATICS DEPARTMENT

Division of Arts & Science
SOUTH PLAINS COLLEGE

Summer 2019
Morgan Groves
Sheyleah Harris-Plant, Ph.D.

South Plains College

Mathematics 0314/1314 – College Algebra Corequisite

Section: C02, Monday and Wednesday, 10:00 A.M.   **Room:** Technology Center, Room 205

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"Intelligence plus character – that is the goal of true education." – Dr. Martin Luther King, Jr.

"Hard work is required, but must also produce value." – Norman Chaffee

"True knowledge exists in knowing that you know nothing." – Socrates

"There is no end to education. It is not that you read a book, pass an examination, and finish with education. The whole of life, from the moment you are born to the moment you die, is a process of learning." – Jiddu Krishnamurti

"In the United States, we experience many freedoms. Two of these freedoms include the freedom to succeed and the freedom to fail. Which one will you choose?" – Alan Worley

Instructor(s): Morgan Groves
Room: Levelland Math Building 101
Phone: (806) 716-2735
Email: mgroves@southplainscollege.edu
Office Hours: (on the Levelland Campus *until 8 July 2019*)

Monday	Tuesday	Wednesday	Thursday	Friday
0800-0955	0800-0955	0800-0955	0800-0955	
Or by appointment				

Instructor(s): Sheyleah V. Harris-Plant, Ph.D.
Room: Levelland Math Building 120
Phone: (806) 716-2665
Email: sharris@southplainscollege.edu
Office Hours: (on the Levelland Campus *after 8 July 2019*)

Monday	Tuesday	Wednesday	Thursday	Friday
1300-1455	1300-1455	1300-1455	1300-1455	
Or by appointment				

Note about Office Hours: Any student is more than welcome to visit during office hours, however, for the student's visit to be most effective it is best to make an appointment. Students from other classes are often visiting during office hours and other college responsibilities often prevent office hours without notice.

Reference Textbook: (The textbook is not required for the course, but the student is welcome to purchase <u>any</u> of the following textbooks.)

Beecher, J. A., Penna, J. A., Johnson, B. L., & Bittinger, M. L. (2017). College Algebra with Intermediate Algebra: A Blended Course. Boston: Pearson. ISBN 0134555260.

Blitzer, R. (2018). College Algebra, 7th ed. New Jersey: Pearson Prentice Hall. ISBN 9780134469164.

Blitzer, R. (2007). College Algebra, 6th ed. New Jersey: Pearson Prentice Hall. ISBN 9780321782281.

Blitzer, R. (2010). College Algebra, 5th ed. New Jersey: Pearson Prentice Hall. ISBN 0321559835.

Supplementary Course Information
Blackboard is the online course management system that will be utilized for this course. This course syllabus, as well as any class handouts, can be accessed through Blackboard. Login at https://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 CampusConnect Pin No. (found on SPC acceptance letter)

Supplies: Pencil, a binder, loose-leaf paper, graph paper, ruler, stapler, and erasers **(SCIENTIFIC CALCULATORS ALLOWED, NO GRAPHING CALCULATORS)**

    Knewton Access Kit: This kit is available at either SPC Bookstore (Levelland campus or Reese Center) or online at www.knewton.com
There is no physical textbook for this course. The access kit online sells for approximately $44. The SPC bookstore price is approximately $58.

Course 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.

Course 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.

Course Requirements
To maximize the potential to complete this course, a student should attend all class meetings, take notes and participate in class, complete all homework assignments and examinations including final examinations.

Student Learning Outcomes/Competencies
Successful completion of this course should reflect mastery of the following objectives. The course objectives the student will be able to meet are:
1. Demonstrate and apply knowledge of properties of functions, including 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 all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices.

Core Objectives
Communication Skills
Effective development, interpretation, and expression of ideas through written, oral, and visual communication.
- Develop, interpret, and express ideas through written communication
- Develop, interpret, and express ideas through oral communication
- Develop, interpret, and express ideas through visual communication

Critical Thinking
Creative thinking, innovation, inquiry, analysis, evaluation, and synthesis of information.
- Generate and communicate ideas by combining, changing, and reapplying existing information
- Gather and assess information relevant to a question
- Analyze, evaluate, and synthesize information

Empirical and Quantitative Competency Skills
The manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
- Manipulate and analyze numerical data and arrive at an informed conclusion
- Manipulate and analyze observable facts and arrive at an informed conclusion

   * The submission of the syllabus receipt is required.

Disclaimer

The instructor(s)(s) reserves the right to alter any class policies as deemed necessary by the instructor(s)(s) 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(s)s for clarification.

Class Cancellation

In the event of the class being canceled by the school, the student will be responsible for the lecture material. The class will continue on the calendar presented. All information needed is on Blackboard and should be accessed by the student.

Attendance Policy*

Attendance and effort are the most important activities for success in this course. Records of your attendance are maintained throughout the semester. Four absences, *for any reason*, are allotted to the student for the semester. Tardies count as one-half (1/2) of an absence. Tardies will be applied for consistently being late to class, as deemed by the instructor(s) and leaving class early. If this number is exceeded, the instructor(s) has the right to drop you with a grade of F or an X, depending on their discretion. You can seek temporary reinstatement within a week after being withdrawn, assuming the student submits their syllabus receipt, but you must withdraw yourself from the course via the Admission and Records Office within two days of reinstatement. In the latter case, you will receive a W or a U. *After the two days have expired, the instructor(s) has the right to drop you for a final time, after which there will be no reinstatement. THERE WILL BE NO WAITING UNTIL THE END OF THE SEMESTER TO WITHDRAW!*

Withdrawal

If you wish to withdraw from this class for any reason, you must start the appropriate steps on your own. To withdraw from this class, you will need to go to the Admissions and Records office either on the Levelland campus, the Reese Center campus, or the Lubbock Center, and fill out a drop notification form, and pay $5. The drop form can be obtained online in MySPC, under the Student Forms and Tools link. Please be aware that SPC may not permit an undergraduate student to drop a total of more than six courses (including any course a transfer student has dropped at another institution of higher education) if the student enrolled in college for the first time during the Fall 2007 academic term or any term subsequent to the Fall 2007 term.

Email Policy

All students at South Plains College are assigned a standardized SPC e-mail account. Although personal e-mail addresses will continue to be collected, the assigned SPC e-mail account will be used as the official channel of communication for South Plains College. The Student Correspondence Policy can be found at www.southplainscollege.edu. To access the SPC student e-mail account, log in to MySPC and click the SPC Google Mail option under Campus Bookmarks. (Copied from SPC Student Guide)

Since all students have an assigned SPC email, the instructor(s) will only acknowledge, respond, and send emails to your assigned SPC email. This ensures all correspondence from the instructor(s) is received by the intended recipient.

Final Grading Policy

All grades are rounded from the tenths place. Upon the submission of grades at the end of the semester, **ALL GRADES ARE FINAL!**

Feedback

The instructor(s) will usually return feedback by the next class day; however, they reserve the right to have one (1) week to grade assignments and post grades from the due date.

Grading Scale

90 or above	A
80 to 89	B
70 to 79	C
60 to 69	D
59 and Below	F

All supplemental material and a close approximation of your current grade are available all semester on South Plains College's Blackboard server.

* The submission of the syllabus receipt is required.

Assignment Weights

Practice Assessment		20 points
Quizzes	10 @ 1 point	10 points
Homework	84 @ 0.12 point	10 points
Aptitude Assessment		**80 points**
Exams	5 @ 12 points	60 points
Final Exam	1 @ 20 points	20 points
Total Points		**100 points**
Extra Credit Points		
Bonus Tests	10 @ 0.5 point	5 points
Quiz	1 @ 1 point	1 point
Homework	6 @ 0.12 point	0.72 point

Religious Holy Days

In accordance with 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(s) within the first fifteen (15) days of the semester (**Monday, 17 June 2019**) 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. (copied from current South Plains College catalog)

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. (copied from current South Plains College Faculty Handbook)

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. (copied from current South Plains College Faculty Handbook)

Title IX Pregnancy Accommodation 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, a notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact Crystal Gilster, Director of Health and Wellness at 806-716-2362 or email cgilster@southplainscollege.edu for assistance.

* The submission of the syllabus receipt is required.

Sexual Misconduct

As a faculty member, I am deeply invested in the well-being of each student I teach. I am here to assist you with your work in this course. If you come to me with other non-course-related concerns, I will do my best to help.

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. Mr. Christopher Straface, 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 Mrs. Gilster at 806-716-2362 or cgilster@southplainscollege.edu or go by the Health and Wellness Center. You can schedule an appointment with a counselor by calling 716-2529.

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 and Frequently Asked Questions, please refer to the Campus Carry page at https://www.southplainscollege.edu/campuscarry.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.

Academic Honesty, Equal Opportunity

You are expected to uphold the ideas of academic honesty. All work that is graded must be your own. This policy applies to all work attempted in this course. If this policy is violated the student will receive an **F** for the assignment and will be dropped with an **F**. For more details on what is considered cheating, see the South Plains College catalog.

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.

Holiday/Travel Statement*

If a student has pre-existing plans to travel out of the area during scheduled class times, you must inform the instructor(s) by **NO LATER THAN Monday, 17 June 2019**, at the end of class and submit the syllabus receipt. Failure to do so will result in the forfeiture of any assignments that will come into question during your dates of absence. These assignments will not be replaced or allowed for make-up work.

Resources

- ➢ **Free** tutoring at Levelland is available in room 116 of the Mathematics-Engineering Building, at the Reese Center campus in room RC 212 in Building 2, and at the Lubbock Center Computer Lab in Lubbock (3907 Avenue Q). Please remember to sign in when you seek the help of a tutor in each of these places.
- ➢ The South Plains College Department of Mathematics and Engineering has put one copy of the textbook for this course on reserve in the *Levelland and Reese Campus* Libraries.

* The submission of the syllabus receipt is required.

Expectations of the Instructor(s)

The student is within all rights to expect that the instructor(s) does the following:

➢ Show up, as scheduled, to teach all the information pertaining to the course.

➢ Provide notice of any schedule changes.

➢ Maximize the time allotted for this course by assessing student aptitude for covered information at the close of each lecture, when time permits.

➢ Present the material in a manner that can generally be understood by the majority of the class.

➢ Be accessible to those who need assistance outside of the classroom setting, by way of e-mail or in person, during office hours or reasonably scheduled appointment times.

➢ Hold to any assignment(s) given during the course of the semester unless removed.

➢ Uphold the policies of the college as it pertains to the student's welfare in the course.

➢ Not make any exceptions regarding the dismissal of any student from the course for reasons listed herein.

➢ Allow each student the opportunity to discuss the material presented during the lecture period.

➢ Provide examinations based on the information discussed in class that contains problems which use solving methods *similar* to those assigned from sections pertaining to the exam.

Expectations of the Student

The instructor(s) is within all rights to expect that the student does the following:

➢ Show up on time, as scheduled, to receive and learn all information pertinent to the course and be mindful of any schedule changes.

➢ If you are going to withdraw from this course, then *all withdrawals must be done by Thursday, 1 August 2019*. There will be no withdrawals given after this date.

➢ READ THE SYLLABUS!!! You will remain subject to the criteria outlined herein whether you read this or not, so it is in your best interest to do so!

➢ Take advantage of *all* the resources available to you. In the collegiate setting, all students are considered adults and are expected to uphold conduct worthy of such consideration.

➢ Be mindful of the classroom setting and the roles therein. While student tuition is vital to the well-being of this academic institution, this does NOT warrant the concession of an instructor(s) to you in a manner that compromises the integrity of the classroom setting and that of the institution itself.

➢ Bring all materials needed for the course and refrain from bringing anything that is not needed.

➢ Be willing to work together with – **BUT NOT DO WORK FOR** – fellow classmates.

➢ Keep all homework assignments organized in a binder. This will prove to be helpful in preparing for the exams.

➢ *Write all graded work legibly and in pencil only. All work not done in pencil will not be accepted by the instructor(s) and will cause you to receive a grade of zero percent (0%) for the work in question.*

➢ Work homework early enough to get help, if needed.

➢ Turn all electronic devices *off* that have no use in the classroom setting. This means all music players, cellular telephones (or cell phones), pagers, etc. In the event that a cell phone must be on (family emergencies only), then the phone must be on vibrate mode and placed on your desk or table. If an unsanctioned device is in use during an exam, then its grade will be zero percent (0%) and removal from the course.

➢ Obtain all missed information and assignments from a fellow classmate. **NO LATE WORK will be accepted!!!**

* The submission of the syllabus receipt is required.

Homework

Achieving success in this class will require giving regular effort outside of class, meaning doing homework. If you plan to be successful in this class, expect to spend a **minimum** of 12 to 18 hours outside of class every week maintaining or increasing your math skills. Homework is a planned practice for students to master the skills taught in class and needed in higher-level mathematics courses.

Every student must do homework. Homework will be assigned daily. The assigned homework will be available on Knewton for completion. The practice is required in order to more fully understand each topic and to successfully negotiate the exams.

When you log into Blackboard, our learning management system (LMS), you will see the link for Knewton assignments on the left menu. Please note, you must log in to Knewton through the LMS for your activity and grades to be recorded. Your homework and bonus tests will be completed and submitted using Knewton. The instructor encourages you to purchase your access code **_immediately_** and register for this class online. You will need to purchase access to Knewton before you'll be able to view or work on assignments. ***You have a 14-day free trial to set up your Knewton account*** if you do not have your access code yet.

Quizzes

Quizzes will be the submission of the work from your Knewton homework assignments which will be collected weekly to assess if the student is practicing and mastering their math skills (doing homework). No make-up quizzes will be allowed.
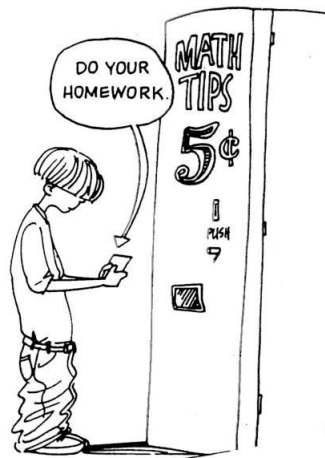
Exams*

Exams are used to assess the amount of the course objectives that the student has mastered. The answer boxed will be the answer graded and only one answer will be graded, so the answer seen will be the one graded. Tentative exam dates are noted in the class calendar. Students have the scheduled class time to take exams and the time scheduled by the college to take the final exam. No student will be allowed to begin an exam after the first person has turned in their exam and left the classroom. All phones are to be placed on the dry erase board while an exam is in progress.

If a student should have to miss an exam, the instructor(s) will consider replacing the missed exam with the final exam score if the following conditions have been met:

1. Turn in their syllabus receipt,
2. Notify the instructor(s) before the exam is missed, and
3. Provide proper documentation.

Final Exam*

There will be a **comprehensive** final exam 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 at the scheduled time determined by South Plains College, not during class time. Conflicts in test schedules should be worked out with individual instructors. A student's library records and all financial records must be clear before the student will be allowed to take final examinations in any course.

* The submission of the syllabus receipt is required.

Tentative Calendar for Math 0314/1314					
Day	**Date**	**Topic**	**Notes/ Unit**	**Bonus Test**	**Quiz Grades**
Monday	June 3	Syllabus, Prime Factorization, Language of Algebra, Order of Operations, Intro to Integers and Absolute Value	1.1	1	
Tuesday	June 4	Operations on Integers, Simplifying Expressions with Integers; Operations on Fractions	1.2		Syllabus Receipt
Wednesday	June 5	Operation on Decimals; The Number Line; Properties of Real Numbers; Solving Equations	1.3		
Thursday	June 6	Solving Equations with Fractions and Decimals; Solving Linear Inequalities	1.4		
Monday	June 10	Solving Absolute Value Equations and Inequalities	1.5	2	1.1 – 1.4 Work
Tuesday	June 11	Review			
Wednesday	June 12	**Exam 1**	**Unit 1**		
Thursday	June 13	Add, Subtract, Multiply Polynomials; Exponent Rules Part 1	2.1		
Monday	June 17	Exponent Rules Part 2, Scientific Notation	2.2	3	1.5, 2.1 Work
Tuesday	June 18	Factoring: GCF and Grouping	2.3		
Wednesday	June 19	Factoring: Trinomials and Specials	2.4		
Thursday	June 20	Factoring Summary; Solving Polynomials by Factoring	2.5		
Monday	June 24	Review		4	2.2 – 2.5 Work
Tuesday	June 25	**Exam 2**	**Unit 2**		
Wednesday	June 26	Simplifying Rational Expressions	3.1		
Thursday	June 27	Solving Rational Equations	3.2		
Monday	July 1	Graphs of Equations; Functions; Domain and Range	3.3	5	3.1, 3.2 Work
Tuesday	July 2	Combinations of Functions; Composite and Inverse Functions	3.4		
Wednesday	July 3	Graphing Linear functions; Slope; Difference Quotient	3.5		
Thursday	July 4	**Holiday**			
Monday	July 8	Writing Equations of Lines; Increasing, Decreasing, Piecewise Functions	3.6	6	3.3 – 3.5 Work
Tuesday	July 9	Review			

Day	Date	Topic	Notes/ Unit	Bonus Test	Quiz Grades
Wednesday	July 10	**Exam 3**	**Unit 3**		
Thursday	July 11	Symmetry and Transformations of Functions	4.1		
Monday	July 15	Radical Expressions and Rational Exponents; Simplifying Radical Expressions	4.2	7	3.6, 4.1 Work
Tuesday	July 16	Solving Radical Equations; Complex Numbers	4.3		
Wednesday	July 17	Solving Quadratic Equations	4.4		
Thursday	July 18	Graphing Quadratic Equations	4.5		
Monday	July 22	Review		8	4.2 – 4.5 Work
Tuesday	July 23	**Exam 4**	**Unit 4**		
Wednesday	July 24	Graphing Polynomial Functions	5.1		
Thursday	July 25	Long and Synthetic Division	5.2		
Monday	July 29	Zeros of Polynomials	5.3	9	5.1, 5.2 Work
Tuesday	July 30	Graphing Rational Functions	5.4		
Wednesday	July 31	Polynomial and Rational Inequalities	5.5		
Thursday	Aug 1	Exponential and Logarithmic Functions and their Graphs	5.6		
Monday	Aug 5	Properties of Logarithms; Solving Exponential and Logarithmic Equations	5.7	10	5.3 – 5.6 Work
Tuesday	Aug 6	Review			
Wednesday	Aug 7	**Exam 5**	**Unit 5**		
Thursday	Aug 8	Systems of Linear Equations	6.1		
Monday	Aug 12	Matrices and GJE	6.2	None	5.7, 6.1 Work
Tuesday	Aug 13	Determinants and Cramer's Rule	6.3		
Wednesday	Aug 14	Review			
Thursday	Aug 15	**Final Exam**	**1-6**		