

## MATH 1314 – COLLEGE ALGEBRA

Prerequisite – Two units of high school algebra and a score of 350 or better on TSI, or successful completion of the remediation sequence of Math 0315 and Math 0320.

Purpose – A standard course in college-level algebra.

Textbook and Materials – College Algebra 7<sup>th</sup> edition by Robert Blitzer with the My Math Lab access code packet; scientific calculator such as TI83/84

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Attendance – Regular attendance is essential for successful completion of the course. There is **no distinction between excused and unexcused absences**, so there is no need to bring any type of note documenting your absence. If a student has two consecutive weeks of absences, or any 5 absences, the student will be dropped from the course with a grade of X.

Assignment Policy – Homework will be assigned at each class meeting and will be due at the next class meeting. Homework assignments will not be taken up but it is essential that you do each and every assignment in order to be adequately prepared for the quizzes.

Exams and Quizzes – There will be several regularly scheduled online quizzes and four major exams (see calendar). **No make-ups will be given on exams or quizzes.** If a major exam is missed, you will receive a grade of 0 for the missed exam. The final exam is cumulative and is required for each student. If the final exam is higher than the lowest major exam, the lowest major exam grade will be dropped and the final exam will be counted twice. If the final exam grade is the lowest grade, it will NOT be dropped. Quizzes will be taken online using My Math Lab. There are no "extra credit" points given in this class. Your grade is based ONLY on your exams and quizzes. Please do not ask me to give you any extra credit or "bump" your grade.

Lab - The lab time for this course will be integrated into the lecture time and used for taking exams, working homework examples, and as extra teaching time.

Grade Determination – Grades will be averaged according to the following formula:

$$0.83*(\text{Ave. of Exams}) + 0.17*(\text{Ave. of Quizzes}) = \text{Course Grade}$$

Grading Standards – The standard grading scale (90 – 100 = A, 80 – 89 = B, etc.) will be used in this class.

Dropping the Course – The last day to drop is November 16, 2017. If you drop on or before this date you will receive a grade of W or U.

Disabilities – 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 Reese Center Building 8, 806-716-4675.

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.

Accessibility - All course platforms are fully accessible. Blackboard accessibility information can be found at <http://access.blackboard.com>. My Math Lab accessibility information can be found at [www.mymathlab.com/accessibility](http://www.mymathlab.com/accessibility).

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.

Technical Support - Technical support questions concerning Blackboard should be sent to [blackboard@southplainscollege.edu](mailto:blackboard@southplainscollege.edu), or call 806-716-2180. For technical support questions concerning My Math Lab, call 1-800-677-6337.

Tutoring and Videos – Tutoring is available in Building 2 room #212, in the Math building in Levelland, and at the Lubbock Center at 3907 Avenue Q. Tutoring hours and locations will be posted in the hallways of each building. Videos are also available via My Math Lab.

**My Math Lab** - Part of your final average is based on homework problems worked online via **My Math Lab**. **These problems will account for the quiz average that is 17% of your final grade.** I encourage you to purchase your textbook and access code as soon as possible. If you must wait for funding in order to purchase your access code, you can get 14 days of temporary access. See your MML handout for more information.

Things you will need in order to register:

1. Email address
2. **Student Access Code** (in your My Math Lab Packet)
3. Instructor's Course ID: see your MML registration handout
4. SPC Zip Code: **79336**

Follow these steps for a painless registration procedure:

1. Go to <http://pearsonmylabandmastering.com> and click the **Register** button.
2. Follow the on-screen instructions to enter your **Student Access Code** and the **Instructor's Course ID**, provide contact information via a valid email address, and create a **Login Name** and **Password**.
3. After you have registered and enrolled, you are ready to log in to your **My Math Lab** course.

**To log in and access your course:**

1. Go to <http://pearsonmylabandmastering.com> and click the **Log In** button.
2. Enter the **Login Name** and **Password** you created during registration.

**Important Note:** The homework problems assigned online via **My Math Lab** are required and constitute the quiz average for this class. If you either do not have a personal computer or your computer is in serious need of an upgrade, there are many computer labs on both the Levelland campus and the Reese Center campus which have very liberal hours. Please use only the listed labs to access **My Math Lab** since special plug-ins are required and other labs will not have these plug-ins installed. The labs at the Reese Center campus with the plug-ins are in rooms 214, 823 and 827. Computer science students have priority in room 827. Hours for these labs will be announced when available. Computers are also available at the Lubbock Center at 3907 Avenue Q.

Core Objectives – The following core objectives will be met by this course:

1. 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.*

2. 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.*

3. 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.***

Course Objectives – Students must be able to factor algebraic expressions, perform operations with rational expressions, and perform operations with exponential and radical expressions. If these skills are deficient, it is recommended that the student enroll in a remedial course in order to gain proficiency in these skills. In order to complete this course and receive a passing grade, the student must show proficiency in the following course objectives\*:

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

\*Developed by the Coordinating Board and the Faculty of South Plains College’s Math and Engineering Department

#### Math 1314 – Tentative Class Outline

Week 1	P4 – Polynomials, P5 – Factoring
Week 2	1.2 – Linear Equations, 1.3 – Applications of Linear Equations
Week 3	1.4 – Complex Numbers, 1.5 – Quadratic Equations
Week 4	1.6 – Other Types of Equations, Exam 1
Week 5	1.7 – Inequalities, 2.1, 2.2 – Functions, 2.3 – Equation of a Line
Week 6	2.4 – Parallel and Perpendicular Lines, 2.6, 2.7 – Composite and Inverse Functions
Week 7	3.1 – Quadratic Functions, Exam 2
Week 8	3.2 – Polynomial Functions, 3.3 – Roots of Polynomial Functions, 3.4 – Complex Roots
Week 9	3.5 – Rational Functions, 3.6 – Quadratic & Rational Inequalities
Week 10	4.1 & 4.2 – Exponential & Logarithmic Functions, 4.3 – Solving Log & Exponential Equations, 4.4 – Applications of Log & Exponential Functions
Week 11	5.1 – 2X2 Systems of Equations, Exam 3
Week 12	5.3 – 3X3 Systems, 5.4 – Nonlinear Systems

Week 13	6.1 & 6.2 – Solving Systems using GJE
Week 14	6.5 – Solving Systems using Cramer’s Rule, Exam 4
Week 15	Final Review
Week 16	Final Exam

This outline is subject to change at instructor’s discretion.