Angelo State University – Dual Credit

Spring Mathematics 1314 – College Algebra

Instructor: Kimberly Jordan

Location: Room 311

Meeting Times: 1st 7:50 – 9:20 – A days
5th 10:30 – 12:00 A days
6th/7th 1:10 – 2:40 B/A days

Contact: kim.jordan@wallisd.net
Tutorials: M-F during activity and 8th period
325-812-8969 (cell)
325-651-7790 ext. 1311(school)


Option 1: eBook and MML Access – Purchase via coursecompass.com


Credit: 3 semester hours — Students should spend an average of 7.5 hours each week outside of class working on this course.

Student Learning Outcomes:

1. Students will demonstrate factual knowledge including the mathematical notation and terminology used in this course. Students will read, interpret, and use the vocabulary, symbolism, and basic definitions used in college algebra including the real numbers, exponents, radicals, polynomials, factoring, functions, equations, inequalities, and graphs.

2. Students will describe the fundamental principles including the laws and theorems arising from the concepts covered in this course. Students will identify and apply the laws and formulas that result directly from the definitions; for example, the quadratic formula, rules of exponents, and properties of logarithms.

3. Students will apply course material along with techniques and procedures covered in this course to solve problems. Students will use the facts, formulas, and techniques learned in this course to simplify algebraic expressions, graph functions, and solve inequalities, equations and systems of equations.

4. Students will develop specific skills, competencies, and thought processes sufficient to support further study or work in this field or related fields. Students will acquire a level of proficiency in the fundamental concepts and applications necessary for further study in academic areas requiring college algebra as a prerequisite, or for work in occupational fields requiring a background in algebra. These fields might include education, business, finance, marketing, computer science, physical sciences, and engineering, as well as mathematics.

Revised January 2021
Grading Policy:

- 4 Tests (Each worth 15%) 60%
- MyMathLab Homework Average 10%
- Quizzes/Daily Work 10%
- Final Exam (Comprehensive) 20%
- Total 100%

Grading Scale:

- A 100-90%
- B 89-80%
- C 79-70%
- D 69-60%
- F Below 60%

1. If the final exam grade is higher than your lowest test score (at the end of the semester), the final exam grade will replace the lowest test score.

2. No make-up tests will be given. If you are unable to take a test, the final exam score will be substituted for that test score. A second missed test will result in a 0 for that test score. The schedule is known ahead of time, so make it a priority not to miss. If you are quarantined during a testing week, you must make up the exam after school as soon as you return. Online exams will not be administered unless we are all quarantined.

3. No late homework will be accepted. Homework assignments will be completed in the MyMathLab (MML) tool. The score earned at the deadline is the score that will be assigned. Homework is designed to help you prepare for the tests and final exam. Your work from the homework assignments should be brought to class to seek clarification on any problems you are not understanding before the homework is due. Students who repeatedly do not submit home may receive a detention for each homework assignment missed.

4. For tests taken on the computer, all work must be turned in at the completion of the test. If no work is shown, credit for the problem(s) is not granted.

5. NO LATE WORK WILL BE ACCEPTED AT ANY TIME. NO EXCEPTIONS.

Academic Integrity: Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is available on the web at http://www.angelo.edu/forms/pdf/honorcode5.pdf

While the course doesn’t contain a written component that needs to be checked via TurnItIn, students are expected to uphold the Academic Integrity Policy set forth by the university. Students should not seek outside resources to complete their work. Resources include but are not limited to: websites designed to work problems for you, another person, online sources, etc… At a minimum, students who are determined to have violated this policy will receive a failing grade on the assignment and may receive a failing grade for the course. The student may be referred to the Math Department Chair for possible further action.

In the event the assignment is a test and a 0 is earned, the final exam score will not be used to replace that score when calculating final grades.

Course Requirements: The course will require patience, practice, and persistence. Students must patiently persist through the practice. The best way to learn math is by working math problems. Homework is to be completed on your own time as the opportunity to work on it in class will be rare. Homework will be completed in the MML program.

Periodic quizzes will be given as a means of checking your understanding between tests. To be most prepared for the math, it is important that you are working through the homework as assigned. If you are needing additional
practice, the Study Plan within the MML program is a way to gain additional practice and strengthen your mastery level.

Take notes in class. The problems I work are designed to supplement the notes and material in the MML program and textbook. The notes and work from the homework will be your best Study Guide for the tests. It is critical that you do not get behind. The material builds on itself and the pace of the class is fast. If you find yourself behind, make it a point to come by and see me during tutorials. The sooner you clear up these difficulties, the better it will be for you in the long run.

**Attendance Policy/Make-Up Policy:** Students are expected to maintain regular attendance. If you are absent, the instructor should be contacted as soon as possible. If the absence is known in advance, contact MUST be made with the instructor prior to the date of the absence. **A missed test will be replaced with the final exam test score. Test dates are known well in advance, so missing a test should be avoided if at all possible.**

**Course Policies:**

1. This course requires regular access to the computer for completing and submitting assignments. Access to the internet and computer are mandatory. **If the student is out of town, plans to access the course should be made as late work is not accepted.** It is best to always have a backup plan as computer/internet issues are not a valid excuse for late work.

2. FERPA privacy laws prevent the instructor from discussing student performance, grades, attendance, etc… with the student’s parents or guardians. Should there be a concern about any of the aforementioned issues, it is the responsibility of the student to inquire with the instructor. The instructor is permitted to speak with the administrators and/or counselors about the student’s performance. Parents may communicate any concerns with their student and/or the counselor/administrator.

3. Students should be respectful in all forms of communication. All written communication within the classroom is permanent even if the student deletes it on his/her end.

4. Students are expected to exhibit appropriate behavior for the college classroom. Respect for the instructors and class members should be demonstrated at all time. Although, the course is facilitated through ASU, the Wall Student Code of Conduct is expected to be upheld in addition to the ASU Student Code of Conduct.

**Students with Special Needs:** Students who qualify for specific accommodations under the Americans with Disabilities Act (ADA) should notify the instructor the first week of class. It is the student’s responsibility to provide the necessary document to the Special Populations Coordinator.

**Course Content**

**Textbook:** *College Algebra 7th Edition by Robert F. Blitzer*. The electronic supplement MyMathLab is required. The following chapters including the particular sections listed are covered.

- **0. Prerequisites:** Fundamental Concepts of Algebra; Algebraic Expressions, Mathematical Models, and Real Numbers; Exponents and Scientific Notation; Radicals and Rational Exponents; Polynomials; Factoring Polynomials; Rational Expressions – Note, this section was covered in the Fall semester.

- **1. Equations and Inequalities:** Graphs and Graphing Utilities; Linear Equations and Rational Equations; Models and Applications; Complex Numbers; Quadratic Equations; Other Types of Equations; Linear Inequalities and Absolute Value Inequalities
2. **Functions and Graphs**: Basics of Functions and Their Graphs; More on Functions and Their Graphs; Linear Functions and Slope; More on Slope; Transformations of Functions; Combinations of Functions; Composite Functions; Inverse Functions; Distance and Midpoint Formulas; Circles

3. **Polynomial and Rational Functions**: Quadratic Functions; Polynomial Functions and Their Graphs; Dividing Polynomials; Remainder and Factor Theorems; Zeros of Polynomial Functions; Rational Functions and Their Graphs

4. **Exponential and Logarithmic Functions**: Exponential Functions; Logarithmic Functions; Properties of Logarithms; Exponential and Logarithmic Equations; Exponential Growth and Decay; Modeling Data

5. **Linear Systems**: Systems of Linear Equations in Two and Three Variables; Partial Fractions; Systems of Nonlinear Equations in Two Variables; Systems of Inequalities; Linear Programming

**Course Schedule**: *Note: The schedule is subject to change due to unforeseen changes to the school’s schedule. Any changes to the schedule will be communicated to the student.*

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