Instructor Information

Instructor: Rikki Turner
Office: Room 107
Phone: 325-473-2511 ext 134
Email: Rikki.turner@bronteisd.net
Office Hours: My conference period is 6th period (1:20 – 2:05) or you may see me before (7:30 – 7:55) or after school (3:40 – 4:00) at your convenience.

Course Format

This is a face-to-face, dual-credit course. I will create videos for you to watch and you will have assigned readings from the textbook. You will have homework for each lesson, and after several lessons you will have a combined quiz over those lessons. You will have two exams and a final exam. After the conclusion of the college semester, you will have a final project for the high school credit portion.

Textbook

The required textbook is College Algebra: A Concise Approach by Paul Sisson. You will have assigned readings and problems out of this book so it is essential that you buy it in some format.

Homework

There will assigned homework for each section. Every homework assignment is due, by the end of class, on the Friday of the week assigned.

Quizzes

There will be five quizzes (mini-tests) during this semester. They will cover the following sections:

Quiz 1: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6
Quiz 2: 2.1, 2.2, 2.3, 2.4, 2.5, 2.6
Quiz 3: 3.3, 3.4, 3.5, 4.1, 4.2, 4.5
Quiz 4: 5.1, 5.2, 5.3, 5.4, 6.1
Quiz 5: 7.1, 7.2, 7.3, 7.4, 7.5, 8.1

Exams

There will be three exams during this semester. Exam 1 will take place after Chapter 4, Exam 2 will come after Chapter 8. These two exams will only cover the material associated with it in the schedule. The Final Exam will cover all material from the course.

Grading System

Homework = 15%
Quizzes = 35%
Exams = 50%
100-90 = A, 89-80 = B, 79-70 = C, 69-60 = D, Below 60 = F

Make-up Policy

If you have a conflict with a quiz or test, you must talk to me about it beforehand if possible. You will have to schedule a time to come take the missed quiz/test within three school days of the original date.

Class Expectations

I expect you to watch the videos and do the readings outside of class time. Our class time should be used for working additional practice problems together, explanations for any misunderstandings, and homework/quiz/exam time.

Schedule of Topics by Week

1. 1.1, 1.2
2. 1.3, 1.4
3. 1.5, 1.6, Quiz 1
4. 2.1, 2.2
5. 2.3, 2.4
6. 2.5, 2.6, Quiz 2
7. 3.3, 3.4
8. 3.5, 4.1
9. 4.2, 4.5, Quiz 3, Exam 1
10. 5.1, 5.2
11. 5.3, 5.4
12. 6.1, Quiz 4, 7.1
13. 7.2, 7.3
14. 7.4, 7.5
15. 8.1, Quiz 5, Exam 2
16. Review for Final Exam, Final Exam

Course Content

1. Number Systems and Fundamental Concepts of Algebra: The Real Number System; The Arithmetic of Algebraic Expressions; Properties of Exponents; Properties of Radicals; Polynomials and Factoring; The Complex Number System

2. Equations and Inequalities of One Variable: Linear Equations in One Variable; Linear Inequalities in One Variable; Quadratic Equations in One Variable; Higher Degree Polynomial Equations; Rational Expressions and Equations; Radical Equations

3. Linear Equations and Inequalities of Two Variables: Forms of Linear Equations; Parallel and Perpendicular Lines; Linear Inequalities in Two Variables

4. Relations, Functions, and their Graphs: Relations and Functions; Linear and Quadratic Functions; Combining Functions

5. Polynomial Functions: Introduction to Polynomial Equations and Graphs; Polynomial Division and the Division Algorithm; Locating Real Zeros of Polynomials; The Fundamental Theorem of Algebra
6. Rational Functions: Rational Functions

7. Exponential and Logarithmic Functions: Exponential Functions and Their Graphs; Applications of Exponential Functions; Logarithmic Functions and Their Graphs; Properties and Applications of Logarithms; Exponential and Logarithmic Equations.

8. Systems of Equations: Solving Systems by Substitution and Elimination

**Student Disability Services**

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website at www.angelo.edu/ADA. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

**Dr. Dallas Swafford**  
Director of Student Disability Services  
dallas.swafford@angelo.edu  
325-942-2047  
**Houston Harte University Center**, 112

**Title IX at Angelo State University**

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Boone, J.D. You may submit reports in the following manner:

- Online: [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
- Face to Face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.miller@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit: www.angelo.edu/title-ix.

General Policies Related to this Course

All students are required to follow the policies and procedures presented in these documents:

- Angelo State University Student Handbook
- Angelo State University Catalog

Student Absence for Observance of Religious Holy Days

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

Student Conduct Policies

ACADEMIC INTEGRITY

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the Statement of Academic Integrity

PLAGIARISM

Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.

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**Mathematics 1314 – College Algebra – 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.