



**Angelo State University-Dual Credit**  
**Spring 2022 Math2312 Precalculus**



**Instructor: Mark Butz**

Room 618 Tutorials M-F 7:50-8:10

**Textbook: Precalculus, 5<sup>th</sup> edition** Robert Blitzer

**Credit:** 4 semester hours

**Student Learning Objectives:**

- 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 Precalculus including the real numbers, exponents, radicals, polynomials, factoring, functions, equations, trigonometric functions, types of angle measure and notation, and conic sections.
- 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 student should be able to write and apply the quadratic formula, rules of exponents, properties of logarithms, characteristics of the trigonometric functions and their inverses, formulas of the conic sections, and formulas relating polar and rectangular coordinates.
- 3. Students will apply course material along with the 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, solve inequalities, equalities and systems of equations, solve trigonometric equations, and recognize and graph trigonometric functions, conic sections and algebraic curves.
- 4. Students will develop specific skills, competencies, and thought processes sufficient to support further study or work in this field or related areas.** Students will acquire a level of proficiency in the fundamental concepts and applications necessary for success in calculus.

### **Schedule of Tests and Associated Book Chapters:**

Test 1 Chapter 4

Test 2 Chapter 5, Chapter 6.1, 6.2, 6.3

Test 3 Chapters 7,8

Test 4 Chapters 9,10

### **Grading Policy:**

1. There will be four tests, each worth 15% of the total grade. The final exam will be worth 20%. If your final exam grade is greater than your lowest test score it will replace that score.
2. Homework and quizzes will be worth 20% of the total grade.
3. Homework guidelines:
  - a. Work must be neat and well organized.
  - b. Work can be done in pen or pencil but no cross-outs allowed. Erase errors completely.
  - c. Don't use paper torn from a spiral notebook.
  - d. Work must accompany your answers unless the problems can be done mentally **in one step**.
  - e. If figures are needed to complete a problem they should be drawn neatly.
  - f. Box or highlight answers.
4. The grading scale is A=90-100, B=80-89, C=70-79, D=60-69 and F=<60.  
**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 can be found at [www.angelo.edu/forms/pdf/honorcode5pdf](http://www.angelo.edu/forms/pdf/honorcode5pdf).

**Student Conduct:** Be kind and respectful to your classmates and instructor. Talking distracts people near you as well as the instructor. **Cell phone use is prohibited in the classroom.**

**Students With Special Needs:** Students who qualify for specific accommodations should notify me the first week of class.