Math 1314 (College Algebra)

Syllabus – Fall 2018

Instructor Information:

**Instructor:** Mrs. Donna Taylor  
**Room:** HS Math  
**Phone:** (325) 655-2851  
**Conference Hours:** Mon – Thurs 11:35 – 12:20

**Fax:** (325) 653-0551  
**Email:** donna.taylor@veribestisd.net

Course Information

**Textbook:** *College Algebra, 12th* Edition, by Gustafson and Hughes.

**Math Tutorials:** Help with the course work is available:  
**Monday – Friday:** 7:55 – 8:15

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

**Attendance:** You are expected to attend all scheduled class meetings, arrive on time, and stay for the entire class period. Class attendance is crucial in this course. Please do not make tardiness a habit.

**Grading Policy:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework and Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Exams</td>
<td>60%</td>
</tr>
<tr>
<td>Final Exam (Comprehensive)</td>
<td>20%</td>
</tr>
</tbody>
</table>

**Grading Scale:**

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

**Homework and Quizzes:**

1. **No late homework will be accepted.** Homework assignments will be completed using pencil and paper. 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.

2. Quizzes will be given in class on a regular basis. If you are absent or miss an in-class quiz, it is a zero. There are **no make-up quizzes.** At times, a quiz may be given as a take-home quiz. Adequate work must be shown on all quizzes and homework.

3. The lowest six homework and quizzes will be dropped. This allows for unavoidable absences.
Exams:
We will have several exams and a comprehensive final exam. All exams will be pencil and paper exams. I will replace your lowest exam score with the final exam, if it will be beneficial for you. This will also allow for unavoidable absences. There will be no make-up exams unless arrangements are made with me prior to the exam.

Drop Date:
The last day to drop a course with a W or withdraw from the university is Thursday, November 1, 2018.

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.

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.

Copyright Policy
Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

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
**Course Requirements:**
This course will require dedication, good work ethic, and patience. It is the responsibility of the student to seek help when needed, take good notes, and complete all assignments in order to be successful in this class. The material builds on itself, and the class is fast-paced. Please make every effort to not get behind.

**University Policies:**

**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.

The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting:
Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
Houston Harte University Center
dallas.swafford@angelo.edu

**Title IX**
Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASU’s Title IX Coordinator:

Michelle Nicole Boone, J.D.
Director of Title IX Compliance
325-486-6357
Mayer Administration Building 204
michelle.boone@angelo.edu

**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 OP 10.11 Grading Procedures for more information.)

**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.

**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.
Course Content:


- **Ch. 0: A Review of Basic Algebra:** Real Numbers; Integer Exponents and Scientific Notation; Rational Exponents and Radicals; Polynomials; Factoring Polynomials; Rational Expressions.
- **Ch. 1: Equations and Inequalities:** Linear Equations and Rational Equations; Applications of Linear Equations; Complex Numbers; Quadratic Equations; Applications of Quadratic Equations; Other Types of Equations; Inequalities; Absolute Value.
- **Ch. 2: Functions and Graphs:** Functions and Function Notation; The Rectangular Coordinate System and Graphing Lines; Linear Functions and Slope; Writing and Graphing Equations of Lines.
- **Ch. 3: Functions:** Graphs of Functions.
- **Ch. 4: Polynomial and Rational Functions:** Quadratic Functions.
- **Ch. 5: Exponential and Logarithmic Functions:** Exponential Functions and Their graphs; Logarithmic Functions and their graphs; Properties of Logarithms; Exponential and Logarithmic Equations.
- **Ch. 6: Linear Systems:** Systems of Linear Equations; Partial Fractions.
# Proposed Course Schedule – Math 1314

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Sections Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug 27-31</td>
<td>0.1 / 0.2</td>
</tr>
<tr>
<td>2</td>
<td>Sep 3-7</td>
<td>0.3 / 0.4</td>
</tr>
<tr>
<td>3</td>
<td>Sep 10 – 14</td>
<td>0.5 / 0.6</td>
</tr>
<tr>
<td>4</td>
<td>Sep 17 - 21</td>
<td>1.1 /1.2</td>
</tr>
<tr>
<td>5</td>
<td>Sep 24 - 28</td>
<td>Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Test #1 (Sections 0.1 – 0.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.3</td>
</tr>
<tr>
<td>6</td>
<td>Oct 1 - 5</td>
<td>1.4 / 1.5</td>
</tr>
<tr>
<td>7</td>
<td>Oct 8 - 12</td>
<td>1.6 / 1.7</td>
</tr>
<tr>
<td>8</td>
<td>Oct 15 - 19</td>
<td>Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Test #2 (Sections 0.6 – 1.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.8</td>
</tr>
<tr>
<td>9</td>
<td>Oct 22 - 26</td>
<td>2.1 / 2.2</td>
</tr>
<tr>
<td>10</td>
<td>Oct 29 – Nov 2</td>
<td>2.3 / 2.4 / 3.1</td>
</tr>
<tr>
<td>11</td>
<td>Nov 5 - 9</td>
<td>4.1 / 5.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Test #3 (Sections 1.6 – 2.4)</td>
</tr>
<tr>
<td>12</td>
<td>Nov 12 - 16</td>
<td>5.3 / 5.5 / 5.6 / 6.1</td>
</tr>
<tr>
<td>13</td>
<td>Nov 26 – Nov 30</td>
<td>Log Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Test #4 (Sections 3.1 – 5.6)</td>
</tr>
<tr>
<td>14</td>
<td>Dec 3 – Dec 7</td>
<td>6.6/ Cumulative Review</td>
</tr>
<tr>
<td>15</td>
<td>Dec 10 - 14</td>
<td>Final Exam</td>
</tr>
</tbody>
</table>