Disclaimer
This syllabus is current and accurate as of its posting date, but will not be updated. For the most complete and up-to-date course information, contact the instructor.

Instructor
Juan Montemayor
Office: MCS 219F
Phone #: 325-486-5438
email: juan.montemayor@angelo.edu

Notice
You are encouraged to be in attendance during each class meeting. No make-ups will be given for missed quizzes, homework assignments, or exams. If you leave early or come late to class, you may be counted absent for the day.

Cell Phone Use
Use of cell phone in class is strongly discouraged. Put phone away when entering classroom. You may be asked to leave the class if you are seen making use of your cell phone in any manner. In case you have a need for your phone – emergencies – let me know and an exception will be made for that case.

Office Hours: MTWTh 3:00 – 5:30

Tentative Math Lab Hours: 12:00 PM – 5:00 PM MTWTh

Important Dates
Exams: Tuesday July 24 (Midterm) and Wednesday August 8 (Final Exam)
Last Day to Withdraw from class: July 30

Textbook
College Algebra 12th edition by Gustafson, Hughes
Instructor will use notes in class with the textbook used as an additional source of information and may also be used for selection of homework problems. Homework will come from notes and from textbook. Homework will not be done online.
Grading Periods
There will be two grading periods (each will count 50% of semester grade)
Each grading period will consist of two take-home exams, a daily grade average, and a mid
semester in class exam. More will be said in class about the grading process.

Percentage
Daily grade is 14% of semester grade, 7% for each half of the semester.
Two take-home exams in each half of semester with each take-home worth 5% of
semester grade. Each of the two in class exams, mid semester exam and final exam,
count 33% of semester exam.

Daily Grade
You will be given daily grades during each half of the semester. The lowest two grades in each
half of the semester will be dropped. The remaining daily grades will be averaged to give you a
daily grade average for each half of the semester. Daily grade consists of a quiz, a homework
assignment, attendance and class participation. More will be discussed on the first day of
class.

Homework
A homework assignment is 30% of daily grade. Grading process will be discussed in
class.
Homework cannot be turned in late but it can be turned in early or on time. No make-
ups on missed assignments.

Quizzes
A quiz is worth 50% of the daily grade. You must be in class to get any credit on quiz.
No make-ups on missed quizzes.

Attendance and Class Participation
Attendance is worth the remaining 20% of daily grade. You must be on time and not
leave class early. Leaving the classroom for any reason may decrease your daily grade.

Semester Letter Grade
A semester average will be computed based on daily grades, take-home exams, and in class
exams. An in-person explanation of the grading process will be given on first day in class.
100 – 90 is an A, 80-89 is a B, 70-79 is a C, 60 – 69 is a D, any average below 60 is an F.

Use of calculators
You will not be allowed to use calculators in class when completing quizzes or exams. If work is
done at home, you may use a calculator but you answer cannot be calculator based.
Student Learning Outcomes
Mathematics 1314 – College Algebra

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

Textbook: College Algebra, 12th Edition, by Gustafson and Hughes. The electronic supplement MindTap Math may also be required. The following chapters including the particular sections listed are covered.

0. A Review of Basic Algebra: Real Numbers; Integer Exponents and Scientific Notation; Rational Exponents and Radicals; Polynomials; Factoring Polynomials; Rational Expressions.

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.

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.

3. Functions: Graphs of Functions.


5. Exponential and Logarithmic Functions: Exponential Functions and Their graphs; Logarithmic Functions and their graphs; Properties of Logarithms; Exponential and Logarithmic Equations.

## Tentative Schedule

Please note that this schedule is subject to change on a daily basis; check Blackboard for up-to-date information. Take home exams are tentatively scheduled. Dates are very likely to change.

<table>
<thead>
<tr>
<th>Day</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Definition and properties of sets, Sets of real numbers, properties of real numbers, Integer Exponents and Scientific notation</td>
</tr>
<tr>
<td>2</td>
<td>Finish with sections 0.1 and 0.2 Begin with section 0.3 rational exponents and radicals.</td>
</tr>
<tr>
<td>3</td>
<td>Finish section 0.3 and Begin with section 0.4 and section 0.5 An introduction to polynomials and methods of factoring</td>
</tr>
<tr>
<td>4</td>
<td>Finish with factoring and begin with rational expressions</td>
</tr>
<tr>
<td>5</td>
<td><strong>Begin with linear equations - catch up day and take-home exam</strong></td>
</tr>
<tr>
<td>6</td>
<td>Review Chapter 0 and chapter 1 do some applications of lines – continue</td>
</tr>
<tr>
<td>7</td>
<td>Rational equations (section 1.1)</td>
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<tr>
<td>8</td>
<td>Finish with applications of lines and more on complex numbers</td>
</tr>
<tr>
<td>9</td>
<td>Quadratic equations and applications of quadratic equations (section 1.4)</td>
</tr>
<tr>
<td>10</td>
<td>Polynomials and radical equation, Inequalities of all types, Absolute value – <strong>Take home exam</strong></td>
</tr>
<tr>
<td>11</td>
<td>Finish material from chapter 1 and review some</td>
</tr>
<tr>
<td>12</td>
<td><strong>Midterm</strong> all material since beginning of semester (hopefully all of chapter 0 and all – or most of chapter 1 – take home section of exam is also due on this day</td>
</tr>
<tr>
<td>13</td>
<td>Catch up on any material not completed by exam plus begin with sections 2.1, 2.2, 2.3, and 2.4 Rectangular coordinate system, functions and functional notation, linear functions and slopes, Graphs and equations of lines</td>
</tr>
<tr>
<td>14</td>
<td>Finish material from last time and begin with graph of functions in general</td>
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<tr>
<td>15</td>
<td>Quadratic Functions, Exponential and logarithmic functions – take home exam 3</td>
</tr>
<tr>
<td>16</td>
<td>Properties of logarithms, Exponential and Logarithmic Equations</td>
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<tr>
<td>17</td>
<td>Catch up day</td>
</tr>
<tr>
<td>18</td>
<td><strong>Catch up day</strong></td>
</tr>
<tr>
<td>19</td>
<td>Finish with material on exponential and logarithmic equations</td>
</tr>
<tr>
<td>20</td>
<td>Systems of linear equations (catch up day) - <strong>take home exam 4</strong></td>
</tr>
<tr>
<td>21</td>
<td>Partial Fractions (catch up day / and or review day)</td>
</tr>
<tr>
<td>22</td>
<td><strong>Final Exam</strong></td>
</tr>
<tr>
<td>Exam</td>
<td>Tentative Goals</td>
</tr>
<tr>
<td>------</td>
<td>----------------</td>
</tr>
<tr>
<td></td>
<td>Material – Per Exam may differ from what is listed below</td>
</tr>
</tbody>
</table>
| 1    | 0.1 Sets of Real Numbers.  
       | 0.2 Integer Exponents and Scientific Notation.  
       | 0.3 Rational Exponents and Radicals.  
       | 0.4 Polynomials.  
       | 0.5 Factoring Polynomials.  
       | Take-home test 1 |
| 2    | 0.6 Rational Expressions.  
       | 1.1 Linear Equations and Rational Equations.  
       | 1.2 Applications of Linear Equations.  
       | 1.3 Complex Numbers.  
       | 1.4 Quadratic Equations.  
       | 1.5 Applications of Quadratic Equations.  
       | Take-home test 2 |
| 3    | 1.6 Other Types of Equations.  
       | 1.7 Inequalities.  
       | 1.8 Absolute Value.  
       | Midterm Exam  
       | 2.1 Functions and Functional Notation.  
       | 2.2 Rectangular Coordinate System and Graphing Lines.  
       | 2.3 Linear Functions and Slope.  
       | 2.4 Writing and Graphing Equations of Lines.  
| 4    | 3.1 Graphs of Functions.  
       | Take-home test 3  
       | 4.1 Quadratic Functions.  
       | 5.1 Exponential Functions and Their Graphs.  
       | 5.3 Logarithmic Functions and Their Graphs.  
       | 5.5 Properties of Logarithms.  
       | 5.6 Exponential and Logarithmic Equations.  
| Final| All sections above,  
       | 6.1 Systems of Linear Equations.  
       | Take-home test 4  
       | 6.6 Partial Fractions.  
       | Final Exam |
**Student Responsibilities**

The student is *solely* responsible for:

- Completing each assignment by the specified due date.
- Obtaining assignments and other materials for classes from which they are absent.
- Utilizing, as needed, all available study-aid options (including meeting with the instructor, referring to outside texts, etc.) to resolve any questions that they might have regarding homework, course material, etc.
- Realizing from the beginning of the course the grade that they may need or want to graduate, maintain a scholarship, stay in athletics, etc. … and give as much effort as it takes to obtain this grade.

**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  
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 Boone  
Director of Title IX Compliance  
325-486-6357  
michelle.boone@angelo.edu

**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. The full details can be found in ASU Operating Policy OP 10.19 [Observance of Religious Holy Days](#).
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.

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
• In the event that the university is closed for a scheduled class time, whatever was scheduled for that day and/or whatever was due that day will be scheduled and/or due on the next scheduled class time.
• All electronic correspondence will be sent to your ASU e-mail account unless other arrangements are made.
• Feel free to come by my office at any time for help. I will definitely be near my office during my office hours (or there will be a note telling you when I will be back). If my office hours are not convenient for you, meet with me to arrange for another time that is more convenient.
• Good luck. I sincerely hope you do well in this course, and I strongly encourage you to use me as a resource outside of class to help you succeed.

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i Observance of Religious Holy Days: [http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)

ii Grading Procedures: [http://www.angelo.edu/content/files/14197-op-1011-grading-procedures](http://www.angelo.edu/content/files/14197-op-1011-grading-procedures)


iv ASU Writing Center: [http://www.angelo.edu/dept/writing_center/academic_honesty.php](http://www.angelo.edu/dept/writing_center/academic_honesty.php)


vi University Catalog: [http://www.angelo.edu/catalogs/](http://www.angelo.edu/catalogs/)