MATH 1314: College Algebra, Fall 2021

Contact Information
Instructor: Leslie Cope
Office: Mason High School, 1105 West College Avenue, Mason TX
Office Phone: (325) 347-1122 extension 260
e-mail: leslie.cope@masonisd.net

Office Hours:
11:30 a.m. – 12:20 p.m., M-F; or by appointment

Textbook

Course Content
Selected sections from Chapters P - 5 will be studied.

Grading System
The final average will be determined according to the weights in the table that follows.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests</td>
<td>Throughout semester</td>
<td>65%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>End of semester</td>
<td>15%</td>
</tr>
<tr>
<td>Homework &amp; Quizzes</td>
<td>Most Days</td>
<td>20%</td>
</tr>
</tbody>
</table>

Grading Policy
To determine the average needed to ensure that you obtain the grade that you want in this course, consult the table that follows.

<table>
<thead>
<tr>
<th>Average</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 and above</td>
<td>A</td>
</tr>
<tr>
<td>80 to 89</td>
<td>B</td>
</tr>
<tr>
<td>70 to 79</td>
<td>C</td>
</tr>
<tr>
<td>60 to 69</td>
<td>D</td>
</tr>
<tr>
<td>below 60</td>
<td>F</td>
</tr>
</tbody>
</table>

Homework Policy
Homework sets will be assigned most days and will be due at the beginning of the next class day. You will be given one or two grades on each homework assignment. One grade is determined by a single problem that is carefully graded and one grade is based on having reasonably attempted all the other problems. If you have trouble completing a homework assignment, please see me for assistance.

Exams
Students may expect a test at the end of each chapter-oriented topic. The exact dates and coverage of these tests will be announced in class. These tests will account for 65% of the course grade. The Final Exam date will be announced in December. It will account for 15% of the course grade.
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 and giving 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 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. Sex discrimination, sexual misconduct, public indecency, interpersonal violence, sexual assault, sexual exploitation, sexual harassment, and stalking are not tolerated at ASU. As a faculty member, I am a Responsible Employee meaning that I will report any allegations I am notified of to the Office of Title IX Compliance in order to connect students with resources and options in addressing the allegations reported. You are encouraged to report any incidents to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator. You may do so by contacting:

Michelle Boone
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 200
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 using the incident form.

1 Title IX Incident Form: www.angelo.edu/incident-form
If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345. The Office of Title IX Compliance also provides accommodations related to pregnancy (such as communicating with your professors regarding medically necessary absences, modifications required because of pregnancy, etc.). If you are pregnant and need assistance or accommodations, please contact the Office of Title IX Compliance utilizing the information above.

For more information about Title IX in general you may visit the Title IX website².

**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 Days³.

**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 Procedures⁴ 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 Integrity⁵.

**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 Center⁶.

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² Title IX Website: [www.angelo.edu/title-ix](http://www.angelo.edu/title-ix)
³ 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)
⁴ Grading Procedures: [http://www.angelo.edu/content/files/14197-op-1011-grading-procedures](http://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
⁶ ASU Writing Center: [http://www.angelo.edu/dept/writing_center/academic_honesty.php](http://www.angelo.edu/dept/writing_center/academic_honesty.php)
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.

All items contained in this syllabus are subject to change as the semester progresses. Students will be notified in advance of any changes.

Mathematics 1314 – College Algebra

Student Learning Outcomes

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

2. Students will be able to 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 develop specific skills, competencies, and thought processes sufficient to support further study or work in this or related fields. Students will acquire a level of proficiency in the 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,

7 Student Handbook: http://www.angelo.edu/student-handbook/
8 University Catalog: http://www.angelo.edu/catalogs/
finance, marketing, computer science, physical sciences, and engineering, as well as mathematics.

4. **Students will be able to apply 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.

**Textbook**


**Course Content**

Content consists of the following topics, listed according to the corresponding chapters in the text. (See textbook “Contents.”)

1. **Prerequisites: Fundamental Concepts of Algebra:** Real Numbers and Algebraic Expressions, Exponents and Scientific Notation, Radicals and Rational Exponents, Polynomials, Factoring Polynomials, Rational Expressions.

2. **Equations, Inequalities, and Mathematical Models:** Graphs, Linear Equations, Formulas and Applications, Complex Numbers, Quadratic Equations, Other Types of Equations, Linear Inequalities, Quadratic and Rational Inequalities.

3. **Functions and Graphs:** Lines and Slope, Basics of Functions.

4. **Polynomial and Rational Functions:** Quadratic Functions.

5. **Exponential and Logarithmic Functions:** Exponential Functions, Logarithmic Functions, Properties of Logarithms, Exponential and Logarithmic Equations.

6. **Systems of Equations and Inequalities:** Systems of Linear Equations in Two Variables, Systems of Linear Equations in Three Variables, Partial Fractions.

**Anticipated Daily Schedule**

The subject matter schedule listed below is tentative, and subject to change and adaptation. For current, updated information about course topics, contact the instructor.

<table>
<thead>
<tr>
<th>Week</th>
<th>Sections</th>
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<tbody>
<tr>
<td>1</td>
<td>P.1, P.2</td>
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<tr>
<td>2</td>
<td>P.3, P.4, P.5</td>
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<tr>
<td>3</td>
<td>Chapter P Test, Additional Factoring</td>
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<tr>
<td>4</td>
<td>Rational Expressions and Factoring</td>
</tr>
<tr>
<td>5</td>
<td>Factoring Test, 1.1, 1.2, 1.3, 1.4</td>
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<tr>
<td>6</td>
<td>Mid-Chapter 1 Test, 1.5 (end grading period 1)</td>
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<tr>
<td>7</td>
<td>1.6, 1.7, 1.8</td>
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<tr>
<td>8</td>
<td>Chapter 1 Test, 2.1, 2.3</td>
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<tr>
<td>9</td>
<td>Review, Chapter 2 Test, 3.1</td>
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<tr>
<td>10</td>
<td>Quadratics Test, 4.1, 4.2</td>
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