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 219 F  
Phone #: 325 – 486 – 5438  
Email: juan.montemayor@angelo.edu

Office Hours
Monday and Wednesday: 8:30 -9:00 AM, 10:00-11:00 AM, 2:00 – 3:15 PM  
Tuesday and Thursday 9:30 – 11:00 AM  and 2:15 – 3:15 PM also Friday: 8:30 – 9:00 AM, 10:00-11:00 AM

Math Lab Hours – Tentative Hours
located on the third floor of the library room C302
Monday – Thursday: 9:00 AM – 8:00 PM, Friday: 9:00 AM – 12:00 PM, and Sunday 4:00 – 8:00 PM

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, come late, leave the classroom you may be counted absent for the day.** There are three major exams to be given during the semester plus a final exam. If you miss an exam, a meeting between student and instructor will be held to see if anything can be done to alleviate the problem. Student must initiate the conversation with a written valid excuse stating the reason for missing exam. This must be done as quickly as possible. Preferably within a week of the missed exam. If the excuse is deemed to be valid by the instructor, then a solution will proposed by the instructor. In most cases a comprehensive final exam will be given and grade will replace missed exam. Otherwise, the grade for missed exam will become a zero. No option for removing a second missed exam.

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. Touching, glancing, and leaving the classroom to answer the phone will all be considered instances of disruption to the class and any disruption of class will result in immediate dismissal from class. You may return to class only after a meeting with instructor outside of class time. In case you have a need for your phone – emergencies – let me know and an exception will be made for that case.

Important Dates(Tentative Dates)
Exam 1: Thursday September 19, 2019  
Exam 2: Thursday October 22  
Exam 3: Thursday November 21  
Final Exam: Tuesday December 10, 2019  
Thanksgiving Holidays: November 27-29  
Drop Day: Thursday October 31

Textbook
Grading Periods
There will be four grading periods (each will count 25% of semester grade) The first three grading periods will consist of an in class exam (75% of grading period) and a daily grade (25% of grading period). The last grading period consists of only the final exam (100% of grading period). More will be said in class about the grading process.

Daily Grade
There will be six daily grades per grading period. The lowest of the six grades will be dropped and the remaining five grades will be averaged to compute your daily grade (average) for the testing period. Each daily grade will consist of quiz and a homework grade. It is your responsibility to attempt all homework problems and ask questions outside of class or in class as time permits. Homework and quizzes will each make up 50% of your daily grade. More will be discussed on the first day of class.

Homework (50% of daily grade)
It is strongly suggested that you attempt every problem assigned for homework. It will help you learn the material and prepare you for quizzes and exams. No late homework accepted. Homework can be turned in early.

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

Attendance
Attendance is essential to learning new material. You may be counted absent if you leave the classroom for any reason during lecture.

Exams
These are three exams during the semester plus a final exam. Exams are the most important part of your grade. They are the primary determining factor of your semester grade. Daily grades provide a small percentage of the grade. No make-ups on missed exams. Read front page of syllabus for details on missed exams.

Semester Letter Grade
A semester average will be computed based on daily grades 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 your answers cannot be calculator based.
Mathematics 2312 – Precalculus

Student Learning Outcomes

1. The students will demonstrate an understanding of 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 pertaining to the real numbers; exponents and radicals; polynomials, factoring, and rational expressions; equations and inequalities; functions; polynomial and rational functions; inverse functions; exponential and logarithmic functions; and graphs and their transformations.

2. The students will describe the fundamental principles including the mathematical rules 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, rules of exponents, exponential and logarithmic properties, the quadratic formula, slope and formulas for the equations of lines, the Intermediate Value Theorem, and the limit laws.

3. The students will apply course material using techniques and procedures covered in this course to solve problems. Students will utilize the facts, formulas, and the techniques learned in this course to simplify algebraic expressions; graph functions; and solve equations and systems of equations.

4. The 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 in precalculus necessary for success in calculus.

Course Content

Textbook: *Precalculus: Mathematics for Calculus*, 7th Edition, by Stewart, Redlin, and Watson. The following chapters including the particular sections listed are covered.

1. **Fundamentals**: Exponents and Radicals; Algebraic Expressions; Rational Expressions; Equations; Inequalities; The Coordinate Plane; Graphs of Equations; Circles; Lines.

2. **Functions**: Functions; Graphs of Functions; Getting Information from the Graph of a Function; Average Rate of Change; Linear Functions; Transformation of Functions; Combining Functions; One-to-one Functions and Their Inverse.

3. **Polynomials and Rational Functions**: Quadratic Functions; Polynomial Functions; Dividing Polynomials; Rational Functions.

4. **Exponential, and Logarithmic Functions**: Exponential Functions; The Natural Exponential Function; Logarithmic Functions; Laws of Logarithms; Exponential and Logarithmic Equations.

10. **Systems of Equations and Inequalities**: Systems of Linear Equations in Two Variables; Systems of Linear Equations in Several Variables; Partial Fractions; Systems of Nonlinear Equations; Systems of Inequalities.

13. **Limits: A Preview of Calculus**: Finding Limits Numerically and Graphically; Finding Limits Algebraically; Limits at Infinity.
## Tentative Schedule

Please note that this schedule is subject to change on a daily basis and very likely will change.

Check Blackboard for up-to-date information or ask in class.

<table>
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<th>Week</th>
<th>Topics</th>
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| Week 1 | Basic concepts of polynomials; definitions and properties, and operations.  
Section 1.2 Rules of exponents; whole number and integer exponents, include fractional exponents and radicals, begin with algebraic expressions if time permits. |
| Week 2 | Finish section 1.3 algebraic expressions and begin with section 1.4 rational expressions.  
Finish with rational expression and begin with section 1.5 equations. |
| Week 3 | Finish section 1.5 Equations and Begin with section 1.8 Inequalities. |
| Week 4 | Finish section 1.8 and Begin with section 1.9 The coordinate plane, graphs of equations.  
Exam 1 on Thursday of this week - We may not be able to cover all material listed above. |
| Week 5 | Finish with Section 1.9 and Section 1.10 Lines. |
| Week 6 | Begin with section 2.1 Functions, Section 2.2 Graphs of functions, and section 2.3. |
| Week 7 | Finish section 2.3 information from graph of a function, Begin and finish section 2.4 average rate of change of a function. |
| Week 8 | Finish section 2.5 Linear Functions and Models, and section 2.6 Transformation of Functions. |
| Week 9 | Complete sections 2.7 combining functions and section 2.8 One-to-One functions and their inverses.  
Exam 2 on Thursday of this week. |
| Week 10 | Sections 3.1 and 3.2 Quadratic functions and models, polynomial functions and their graphs, section 3.3 dividing polynomials and some of section 3.6 rational functions. |
| Week 11 | Finish section 3.6 begin and finish sections 4.1, 4.2, and 4.3 exponential and logarithmic functions. |
| Week 12 | Finish sections from last week and begin and finish sections 4.4 and 4.5 laws of logarithms and exponential and logarithmic equations. |
| Week 13 | Sections 10.1 and 10.2 systems of equations in two and several variables.  
Exam 3 on Thursday. |
| Week 14 | Finish with sections 10.7, 10.8 and 10.9 partial fractions, systems of nonlinear equations, systems of inequalities. |
| Week 16 | Final Exam - Tuesday December 10, 2019 @ 8:00 AM – 10:00 AM for Math 2312.030. |
**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 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:**  
[Title IX Incident Form](#)

**Face to Face:** Mayer Administration Building, Room 210  
**Phone:** 325-942-2022  
**E-Mail:** michelle.boone@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 the [ASU Title IX website](#).
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.

### References

1. [http://www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
2. [http://www.angelo.edu/title-ix](http://www.angelo.edu/title-ix)
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)