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, 1:45-2:00 PM, 3:00-4:15 PM
Tuesday and Thursday 9:30 – 11:00 AM and 2:30 – 3:15 PM also Friday: 10:00-11:00 and 1:30 – 2:00 PM

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, leave the classroom you may be counted absent for the day. There are only two major exams to be given in the classroom. If you miss the midterm 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. 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.

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
Midterm Exam: March 7, 2019
Final Exam: May 7, 2019
Drop Day: Thursday March 28, 2019

Textbook
Trigonometry A Unit Circle Approach tenth edition by Michael Sullivan
Grading Periods
There will be two grading periods (each will count 50% of semester grade).
Each grading period will consist of three take-home exams, a quiz average, and an in-class exam (midterm and final exam). More will be said in class about the grading process.

Daily Grade
You will be given quizzes and homework on a daily basis. Homework will not be graded but may be used in on quizzes and take-home exams. You will have fourteen quizzes during each testing period. The lowest four quiz grades will be dropped and the remaining ten quiz grades will be averaged to get a quiz average for the testing period. More will be discussed on the first day of class.

Homework
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.

Quizzes
A quiz is worth 8% of the testing period unless you have excessive absences. You must be in class to get any credit on quiz. No make-ups on missed quizzes. If you do have more than four absences during the testing period, your quiz average will only count 4% of the grade on the testing period.

Attendance
Attendance is essential to learning new material. You may be counted absent if you leave the classroom for any reason during lecture. If you have more than four absences during the testing period or a total of eight absences for the semester, you will be classified as having excessive absences.

Take Home Exams
You will be given three take home exams during each testing period. Each of the take home exams is worth 8% of the testing period grade. If you have excessive absences, the percentage is reduced to 4%. Rules and guidelines will be posted online. Guidelines must be followed. No exceptions will be made. You are allowed— even encouraged—to work together on these exams. You can get help from any available source. My only suggestion is that you make an attempt to answer as many questions as you can in one sitting with no help from any source. This will give you an idea of how much of the material you actually know. If you work hard, you can learn the remaining material. If you do not, the grade on the midterm exam and final exam will be a good indication of how much you knew before you started to get help.

Midterm and Final Exam
These two exams are the most important part of your grade, they make up at least 68% of your semester grade. If you have excessive absences, the percentage increases to 84%. No makeups or time extensions will be given. No additional ways to get bonus points will be available.
**Semester Letter Grade**
A semester average will be computed based on quiz average, take-home exams (average), and from 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.

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**Mathematics 1316 – Trigonometry with Analytic Geometry**

**Student Learning Outcomes**

1. **The 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 trigonometry including definitions of the six trigonometric functions; types of angle measure and notation; equations of conic sections; representing equations in polar coordinates; and the definition of vectors.

2. **The 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 fundamental identities, properties of angles and triangles, characteristics of the trigonometric functions, inverse trigonometric functions, polar equations (including graphs), and formulas for converting between polar and rectangular coordinates.

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 prove identities and solve trigonometric equations; and solve various types of triangle problems, distance and navigation problems, and linear and angular velocity problems.

4. **The Student 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 trigonometry as a prerequisite, or for work in occupational fields requiring a background in trigonometry. These fields might include education, business, finance, marketing, computer science, physical sciences, and engineering, as well as mathematics.
Course Content

Textbook: *Trigonometry: A Unit Circle Approach*, Tenth Edition, by Sullivan. The following chapters including the particular sections listed are covered. (See textbook “Contents.”)

1. **Graphs and Functions.** Graphs of Equations in Two Variables; Circles; Functions and Their Graphs; Properties of Functions; Library of Functions; Piecewise-defined Functions; Graphing Techniques: Transformations; One-to-one Functions; Inverse Functions

2. **Trigonometric Functions.** Angles and Their Measure; Trigonometric Functions: Unit Circle Approach; Properties of the Trigonometric Functions; Graphs of the Sine and Cosine Functions; Graphs of the Tangent, Cotangent, Cosecant, and Secant Functions; Phase Shift; Sinusoidal Curve Fitting

3. **Analytic Trigonometry.** The Inverse Sine, Cosine, and Tangent Functions; The Inverse Trigonometric Functions (continued); Trigonometric Equations; Trigonometric Identities; Sum and Difference Formulas; Double-angle and Half-angle Formulas; Product-to-Sum and Sum-to-Product Formulas

4. **Applications of Trigonometric Functions.** Right Triangle Trigonometry; Applications; Law of Sines; Law of Cosines; Area of a Triangle

5. **Polar Coordinates; Vectors.** Polar Coordinates; Polar Equations and Graphs; Vectors; The Dot Product; Vectors in Space; The Cross Product

6. **Analytic Geometry.** The Parabola; The Ellipse; The Hyperbola; Polar Equations of Conics; Plane Curves and Parametric Equations

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.

| Week 1 | Material from Appendix A, sections 1.1, 1.2, 1.3 , and 1.4 |
| Week 2 | Sections 1.5, 1.6, and 1.7 |
| Week 3 | Sections 2.1, 4.1, 2.2 and 2.3 Take Home Exam |
| Week 4 | Sections 2.4 and 2.5 |
| Week 5 | Sections 2.6, 3.1, 3.2, and 3.3 Take Home Exam |
| Week 6 | Sections 3.3, 3.4, and 3.5 |
| Week 7 | Sections 3.6 and Sections 3.7 Take Home Exam |
| Week 8 | Finish Chapter 3 and Midterm Exam ( in class exam ) |
| Week 9 | Sections 4.2, 4.3, and 4.4 |
| Week 10 | Sections 5.1, 5.2, and 5.4 Take Home Exam |
| Week 11 | Sections 5.5, 5.6, and 5.7 |
| Week 12 | Finish Chapter 5 and Begin Chapter 6 Take Home Exam |
| Week 13 | Sections 6.2 and 6.3 |
| Week 14 | Sections 6.4, 6.6, and 6.7 Take Home Exam |
| Week 15 | Finish chapter 6 and get ready for final exam |
| Week 16 | Final Exam - Tuesday May 7, 2019 @ 8:00 AM – 10:00 AM for Math 1360.020 |
| | Final Exam – Tuesday May 7, 2019 @ 10:30 AM - 12:30 PM for Math 1360.040 |
**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. 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, J.D.  
**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 at [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form).  
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.

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i Observance of Religious Holy Days: 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
iii Academic Integrity: http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
iv ASU Writing Center: http://www.angelo.edu/dept/writing_center/academic_honesty.php
vi University Catalog: http://www.angelo.edu/catalogs/