Name: Julie Lewis  
Department: Mathematics and Statistics  
Phone: 936-468-1880  
Email: lewisjl5@sfasu.edu (preferred method of contact)  
Office: M327  

Class meeting time and place: Section 002 – Monday/Wednesday/Friday 9:00a.m.- 9:50a.m. – in M212  
Office Hours: These hours have been set aside specifically to help students. Additional times are available by appointment.  

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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</thead>
<tbody>
<tr>
<td>12:30 – 1:00</td>
<td>10 – 11</td>
<td>12:30 – 1:30</td>
<td>10 – 11 and 12:30 – 1:30</td>
</tr>
</tbody>
</table>

Course Description: The course revolves around the study of the six trigonometric functions and their relationships to one another, as well as their applications to other areas of mathematics and problems in the physical world. Our study will include radian measure of angles, the trigonometric functions, inverse trigonometric functions, graphs of trigonometric functions, fundamental trigonometric identities, addition, product, and half angle formulas, trigonometric equations, solutions of triangles, vectors in the plane, complex numbers, and a polar coordinate system for the plane.

Credit hours: 3  The following is an excerpt from SFA Policy 5.4: The federal definition of a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:

1. Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or 10 to 12 weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time, or;

2. At least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours. To this end, all students in courses offered by the Department of Mathematics and Statistics that wish to be successful should plan to spend a minimum of two hours outside of class for every credit hour associated with this course. Expected activities to be completed in the time outside of class include reviewing notes from previous class meetings, reading assigned course resources, completing all assigned exercises and projects and performing periodic assessment preparation.

Required Text/Materials/Resources

1. MyMathLab Access Code: The hard copy of the text is optional, but you must purchase the MyMathLab Access Code that is associated with the text (you can do this online with a credit card during the registration process). A 14-day temporary access to MyMathLab (MML) is available, so you should registered for MML on the first day of class! The textbook is Trigonometry, by Mark Dugopolski, 4th edition, ISBN 321923480. Pearson.

2. Calculator: You may use a non-CAS graphing calculator for this class only on selected portions of material and exams. Calculators such as a TI-89 or above or TI-Inspire CAS are not allowed. Calculators on cell phones, computers or tablets are not permitted. Students are responsible for learning how to operate their calculators.

3. Access to High Speed Internet: Your homework will be completed on MyMathLab and requires high speed internet access.

4. Access to Printer: You are expected to print the fill-in-the-blank notes posted on D2L, 3-hole punch the notes, place them in a 3-ring binder, and bring them to class each day.

5. One 3-Ring Binder (1.5"): Place your fill-in-the-blank lecture notes in a binder for easy reference.

6. 3 Hole Punched Loose Leaf Notebook Paper: For supplementary in-class problems.

Course Requirements/Assessments: Overview  
The core objective(s) satisfied by each assignment type are indicated in brackets  

- Three in-class exams [CO: 1,2,3]  
- Daily work [CO: 1,2,3]  
- Comprehensive final exam [CO: 1,2,3]
Grading Policy:

The semester grade will be determined using the following formula: Semester Grade = .20(Daily) + .60(Semester Exams) + .20(Final Exam)

<table>
<thead>
<tr>
<th>Final Grade Components</th>
<th>Grading Scale</th>
<th>Exam Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% Daily Work</td>
<td>89.5% ≤ Grade ≤ 100%: A</td>
<td>Exam 1: 2/15</td>
</tr>
<tr>
<td>60% Semester Exams (3 @ 20% each)</td>
<td>79.5% ≤ Grade &lt; 89.5%: B</td>
<td>Exam 2: 3/15</td>
</tr>
<tr>
<td>20% Comprehensive Final Exam</td>
<td>69.5% ≤ Grade &lt; 79.5%: C</td>
<td>Exam 3: 4/26</td>
</tr>
<tr>
<td>100% Final Course Grade</td>
<td>59.5% ≤ Grade &lt; 69.5%: D</td>
<td>Final: 5/15 (Date is Fixed)</td>
</tr>
<tr>
<td>0 ≤ Grade &lt; 59.5%: F</td>
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<td></td>
</tr>
</tbody>
</table>

Attendance Policy: Please see the “Class Attendance, Participation, Tardiness” section in the Classroom policies below.

Attendance Bonus: Students who have fewer than three absences (2 or less) will be awarded 2 percentage points at the end of the semester. The only exception will be absences excused for approved school functions. Other absences (excused or not) will be counted in your absence total. Participating in class and asking questions to receive the benefit of understanding the material is of utmost importance.

Course Assessment Details

- **Daily Work** – Daily work may consist of online MyMathLab homework, in-class quizzes/activities, notebook grades, worksheets and paper assignments. “Work” provided from any type of mathematical step assistance program will be awarded a grade of zero. All daily work will be accepted only if turned in on time except for online homework which can be completed after the due date for 50% credit.

- **Online MyMathLab Homework** — MyMathLab is online software through which you have access to homework as well as many other supplements including an online eText and videos. MML online homework is due each class day for the purpose of preparing for quizzes and material contained on exams. Understanding homework is how you become responsible for identifying the topics with which you need to spend more time or seek help. Work each homework assignment on loose leaf 3-hole punched notebook paper, labeling the title of the homework, copying down each problem with the corresponding problem number, and working the steps for each problem to arrive at a solution. You will box in your solution and enter the solution into MyMathLab. This homework should be kept in your 3-ring binder. Your homework should be organized and should reflect your thought process so that you or your instructor can look at and understand your work. Be prepared to show your instructor the homework section of your binder at any time during the semester. It is the students’ responsibility to log into MyMathLab each day to check on assignments and due dates. The online homework is listed in MML under the “Homework” tab. The secret word is orange. You can attempt each problem three times before it will regenerate new numbers for the problem. You may re-work each problem until you get it correct. MML assignments are due on Friday at 11:59 p.m. the week the material is covered. Homework due dates in MML will NOT be extended. If you are working on an online assignment close to the due date time, you will be cut off at the due date time (whether you are finished or not). You can access online assignments past the due date and work on them for 50% credit. In this case, be sure to only work problems that are marked completely wrong or problems that you’ve not attempted. Failure to submit assignments by the due date will result in zeros.

- **Technological issues** do not constitute an excuse for incomplete assignments. If you have any technical problems with MyMathLab, you must contact MML directly. Contact MML support at 1 (800) 677-6337.

- **In-Class Quizzes/Activities** – You will be given in-class quizzes/activities/group work. If you are not present on the day of an in-class assignment, your grade on the assignment will be a zero. No makeups will be given in any circumstance (including emergencies or illness). See “Low Daily Scores” below for low-grade accommodations.

- **Worksheets/Paper Assignments** – If you are asked to turn in worksheets/paper assignments, these will be accepted only on-time. For paper assignments, please write on one side of paper only and include your name, date, course and section number. Any work handed to the instructor must be organized, complete, and with work shown. If you are absent on the day an outside of class worksheet or paper assignment is due, please email the assignment as a pdf document, at or before class-time, to lewisjl5@sfasu.edu using CamScanner. Assignments not meeting these requirements will earn a grade of zero.

- **Make-up Policy**: There will be no makeup exams or daily work. The comprehensive final exam grade will replace a lower exam grade or a zero for a missed exam. The final exam grade will not replace a zero received for academic dishonesty.

- **Low Daily Scores** – Three low daily grades will be dropped to accommodate for missed work/illness/emergency situations.
• **Semester Exams** – Each semester exam will be mainly free response and work must be shown for credit/partial credit. Reviews for each exam will be posted on D2L. Students are expected to thoroughly prepare for exams. Students must abide by the Exam Day Procedures listed below in the syllabus. Please allow one week for your exams to be graded and returned. Please note that the dates for the regular in-class exams are subject to change. If a student must miss an exam due to an excused absence, arrangements should be made in advance. If you have exam/assignment accommodations and proper documentation from Disability Services, inform the instructor at least a week prior to the exam or assignment.

• **Comprehensive Final Exam** – The final is university scheduled and cannot be taken at a different time without permission of the Dean of the College of Sciences and Mathematics. Since you have a full semester to arrange any travel plans, they are not an excuse for missing the final exam. The final exam is on Wednesday, May 15th from 8:00 a.m. – 10:00 a.m. in our classroom. There are no makeups for the comprehensive final exam. Information concerning format and number of questions will be given during the last week of the semester.

**Exam Day Procedures**

• A student ID with photo is required for all exams. Place your student ID face-up on your desk. No ID, no exam grade.

• Bring your calculator to the instructor prior the exam to have the calculator approved and the memory cleared.

• Remove hats or turn them around backwards on exam days.

• Turn cell phones off and place them in your backpack or bag.

• Put belongings not needed for your exam in your backpack or bag and place them along the back wall of the classroom.

• Students will maintain academic integrity during the exam. Students will keep their eyes on their own paper during the exam.

• Students cannot leave the classroom and then return to the exam. Please plan accordingly! You may leave once you've completed your exam.

**Classroom Policies**

• **Materials for Class** – Before class, please get out pen/pencil/highlighters, paper, printed course notes, binder, and calculator and place these on your desk. All other materials should be put away and placed in your backpack/bag along the back wall of the classroom.

• **Class Attendance, Participation, Tardiness** – Attendance is expected and recorded for all students. Students are expected to attend all class meetings, arriving on-time, staying for the entirety of the class, and actively participating in class. Bring all necessary materials to each class, be attentive to the task at hand, take notes, and be prepared to participate in class discussions and group work activities. Missing in-class activities, quizzes, etc., will lower your daily average. Missing classes will significantly reduce the instruction you receive and will therefore decrease your semester grade. If you are absent, you are responsible for turning in paper assignments as a pdf document, on time, via email, determining what you missed, completing online assignments, and for preparing for class when you return. Arriving late or leaving class early (10 minutes or more) will result in your being counted absent for the class session. Students who are tardy (less than 10 minutes late), should always inform the instructor after class or else be counted absent. Three tardies will be counted as one absence. Students who sleep in class, fail to participate, send or receive text messages, or conduct other activities not directly related to class will be counted absent and may be dismissed from class. Please inform your instructor of any known emergency situations that might cause you to come late or leave early. You may still be counted absent in these situations, but the courtesy of informing your instructor will be well received.

• **Distractions** – Our classroom should be as distraction-free as possible. Please be prepared for class so that you do not need to leave during class. Please arrive before roll call to minimize distractions. Please avoid attention-drawing behaviors that would distract others. Please refrain from carrying on conversations during class not relating to the topic at hand.

• **Cell Phone Policy** – Our classroom as a no cell-phone zone. It has been shown that cell phones are distractions not only to the person it belongs to, but also to fellow classmates. Use during class can result in reduction of retention which in return can result in of half a letter grade decrease (reference Dr. Kevin Riutzel’s article at [https://www.wsbtv.com/news/national/hot-topics/cellphones-in-classrooms-contribute-to-failing-grades-study/800463454](https://www.wsbtv.com/news/national/hot-topics/cellphones-in-classrooms-contribute-to-failing-grades-study/800463454)). Upon entering the classroom, please turn cell phones off and place them in your backpack or bag and place your backpack/bag along a wall of the classroom not under a whiteboard. If you do not bring a bag to class, place your cell phone in the whiteboard tray at the front of the room. If you have a job such as an emergency responder and need to have your phone on your person at all times, please consult your instructor. In the case of an expected emergency phone call, please inform your instructor before class. If your phone rings during class or you use your phone in class, you will be dismissed.

• **Personal Computer Policy** – I ask that students not use personal computing devices during class unless proper documentation requesting such permission is provided to the instructor prior to such use.

• **Behavior** – Be respectful; be courteous. If it would not be appropriate in a work environment, it is not appropriate in our classroom. Keep language clean and respectful. Students should feel comfortable and safe in my classroom and I expect professional behavior.

Please note that the dates for the regular in-class exams are subject to change.
• **Outside of Class** — For every 1 hour in class, students should be prepared to invest at minimum of 2 hours outside of class to review notes, refer to the online textbook, practice examples, and understand homework exercises. *Material to be discussed in class should be read before coming to class.* You should study math every day.

• **Preparing for Class** – For every 1 hour in class, students should be prepared to invest at minimum of 2 hours outside of class to review notes, refer to the online textbook, practice examples, and understand homework exercises. *Material to be discussed in class should be read before coming to class.* You should study math every day.

• **Print Course Notes** – Notes will be posted on D2L for most sections of material. It is the students’ responsibility to print these notes and bring them each class day. You should use a hole punch and place these notes in your 3-ring binder.

• **Daily Work** – Daily work prepares you for your exams. You should make every effort to fully understand your daily work (not just to complete the assignments). Making a 100% on homework doesn’t necessarily mean you will do well on exams. You must strive to understand the work. Daily work should be written down and worked completely as this will be the format on exams. Please ask questions concerning topics that are unclear!

• **Seek Help** – Identify the topics from the homework that you struggle with by starring these items. Take pictures of these problems (using CamScanner) and email them to your instructor as a pdf document. Be sure to include the actual problem as well as your work. Ask specific questions. In other words, “I got stuck when I got to the part after I multiplied boths sides by the LCD. Can you guide me to my next step?”

• **Check Email/D2L** – Check your university email and announcements on D2L regularly, as I may send reminders, assignments, or announcements.

• **Use of Outside Resources** – You should never use online resources that show you how to do each step of your exact homework problem. Such resources are a crutch and you will crash and burn on the exams if this is how you’ve completed your homework assignments. I expect you to use your course notes, MyMathLab resources, online textbook and to email me with your questions. On quizzes and exams, I expect you to only use your brains, pencil, paper, and, sometimes, a calculator.

• **Communicate** – If you are critically ill or have a situation arise, please let me know in a timely manner! I can usually accommodate students if I am informed of the situation at the time. After the fact, I may not be able to help you.

**AARC (Academic Assistance Resource Center):**
Free tutoring is available from the AARC. They offer one-on-one peer tutoring and the Math Walk-in Table. The hours for the Walk-in Table are 1pm to 8pm Monday through Thursday as well as 4pm to 8pm on Sundays. Sign-ups for learning teams and one-on-one tutoring begin soon. It is a first-come, first-serve basis so you may want to register early. If you need help signing up, the AARC staff (first floor of library, right-hand side) will be happy to assist. You can find more information on the AARC website, [www.sfasu.edu/aarc](http://www.sfasu.edu/aarc).

**Tips for Succeeding in Math**

• Measure success as *understanding* and being able to do new problems, not as having completed the assignment.

• Try to understand definitions and solving approaches. See if you can find examples that work and examples that don’t for a certain procedure. It is as important to know when you can’t do something as when you can.

• Take the time to read the book (ebook) and review your notes before and after class.

• Practice homework problems until you can do it without referring to examples or help from your notes.

• Practice explaining big ideas and problem-solving procedures in your own words.

• Have someone check your work *after you have finished it* to help eliminate mistakes that you do not know you are making.

• Treat mistakes as a learning experience. If you don’t make mistakes, you aren’t learning.

• Realize that math is hard. Some parts are harder for some people than others. Mathematicians frequently find it hard to learn new things sometimes and make mistakes on things we already know. The key is to refresh the basics, and keep working, even it takes hours, days, weeks, or months.

• Some people take longer to understand things than others. Evaluate how you study and seek to study smarter, not necessarily longer. If you are still stuck, get some help. The AARC and I are here for you!
**Course Schedule:** The following is a tentative schedule for MTH 133 for this semester. The final exam date and time is fixed!

<table>
<thead>
<tr>
<th>Wk #</th>
<th>Topics</th>
</tr>
</thead>
</table>
| Wk 1 | MLK Holiday  
1.1 Angles and Degree Measure  
1.2 Radian Measure, Arc Length and Area |
| Wk 2 | 1.2 Radian Measure, Arc Length and Area - Continued  
1.3 Angular and Linear Velocity |
| Wk 3 | 1.4 Trig Functions  
1.6 Fundamental Identity and Reference Angles |
| Wk 4 | 1.5 Right Triangle Trigonometry  
EXAM 1 |
| Wk 5 | 2.1 Unit Circle and Graphing  
2.2 General Sine Wave |
| Wk 6 | 2.3, 2.4 Graphs of Sec, Csc, Tan, Cot  
Graphing Practice |
| Wk 7 | 3.1 Basic Identities  
3.2 Verifying Identities |
| Wk 8 | 3.3 Sum and Difference for Cos  
EXAM 2 |
| Wk 9 | Spring Break |
| Wk 10 | 3.4 Sum and Difference for Sin and Tan  
3.5 Double and Half-Angle Identities |
| Wk 11 | 4.1 Inverse Trig Functions  
4.2 Basic Sin, Cos and Tan Equations |
| Wk 12 | 4.3 Equations Involving Compositions  
4.4 Quadratic Trig Equations |
| Wk 13 | 5.1 Law of Sines  
5.2 Law of Cosines |
| Wk 14 | 5.3 Area of a Triangle  
EXAM 3 |
| Wk 15 | 5.4 Vectors  
5.5 Application of Vectors  
6.1 Complex Numbers |
| Wk 16 | 6.2 Trig form of Complex Numbers  
6.4 Polar Equations |
| Wk 17 | FINAL EXAM, Wednesday, May 15,  
8 a.m. - 10 a.m. in our classroom |

See [http://www2.sfasu.edu/math/docs/syllabi/MTH133Syllabus.pdf](http://www2.sfasu.edu/math/docs/syllabi/MTH133Syllabus.pdf) for elements common to all sections. This site includes, but is not limited to, information concerning academic integrity, withheld grades, disability services, and acceptable student behavior.
Department of Mathematics and Statistics

Math 133 (Math 1316) – Plane Trigonometry
Course Syllabus

**Course description:** Trigonometric functions of angles, radian measure, fundamental identities; addition, product, and half angle formulas, solution of triangles; polar coordinates; inverse trigonometric functions, complex numbers.

**Credit hours:** 3

The following is an excerpt from SFA Policy 5.4:

*The federal definition of a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:*

1. **Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or 10 to 12 weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time, or;**

2. **At least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.**

To this end, all students in courses offered by the Department of Mathematics and Statistics that wish to be successful should plan to spend a minimum of two hours outside of class for every credit hour associated with this course. Expected activities to be completed in the time outside of class include reviewing notes from previous class meetings, reading assigned course resources, completing all assigned exercises and projects, and performing periodic assessment preparation.

**Course Prerequisites and Corequisites:** See general course prerequisites.

**Course outline:**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Approximate time spent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angles and definitions of trigonometric functions</td>
<td>15%</td>
</tr>
<tr>
<td>o Angles</td>
<td></td>
</tr>
<tr>
<td>• Degree measure of angles</td>
<td></td>
</tr>
<tr>
<td>• Reference angles</td>
<td></td>
</tr>
<tr>
<td>• Radian measure of angles</td>
<td></td>
</tr>
<tr>
<td>• Arc length, angular velocity, linear velocity</td>
<td></td>
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<tr>
<td>o Trigonometric functions</td>
<td></td>
</tr>
<tr>
<td>• Definition using the unit circle</td>
<td></td>
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<tr>
<td>• Reciprocal, ratio, and Pythagorean identities</td>
<td></td>
</tr>
<tr>
<td>• Definition using ratios of sides of right triangles</td>
<td></td>
</tr>
<tr>
<td>• Evaluating exact values for special angles</td>
<td></td>
</tr>
<tr>
<td>o Graphs of trigonometric functions</td>
<td>15%</td>
</tr>
<tr>
<td>o Basic graphs of the trigonometric functions</td>
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<tr>
<td>o Modified graphs of the trigonometric functions</td>
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<tr>
<td>• Amplitude</td>
<td></td>
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<tr>
<td>• Period</td>
<td></td>
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<tr>
<td>• Vertical translation</td>
<td></td>
</tr>
<tr>
<td>• Phase shift</td>
<td></td>
</tr>
<tr>
<td>o Inverse Trigonometric Functions and Solving Equations</td>
<td>15%</td>
</tr>
<tr>
<td>o Definitions and graphs of inverse trigonometric functions</td>
<td></td>
</tr>
<tr>
<td>o Calculations with inverse trigonometric functions</td>
<td></td>
</tr>
<tr>
<td>o Solving trigonometric equations</td>
<td></td>
</tr>
<tr>
<td>• Using factoring, identities, and quadratic formula</td>
<td></td>
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<tr>
<td>• Arguments with multiple angles</td>
<td></td>
</tr>
<tr>
<td>• Using inverse functions to approximate solutions</td>
<td></td>
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</tbody>
</table>
Math 133 – Plane Trigonometry
Syllabus Continuation

• **Identities** 20%
  o Logic and techniques for proving identities
  o Calculations with identities
  o Sum and difference identities
  o Even, odd, and cofunction identities
  o Double and half-angle identities
  o Product-to-sum and sum-to-product identities

• **Solving Triangles** 15%
  o Accuracy and significant digits
  o Solving right triangles
  o Law of Cosines
  o Law of Sines
  o Ambiguous case (SSA)
  o Applications
    - Navigation
    - Surveying
    - Angles of depression/elevation
    - Areas of triangles

• **Vectors, Complex Numbers, and Polar Coordinates** 20%
  o Vectors
    - Definitions
    - Algebraic representations and resolving vectors
    - Resultant vector
    - Angle between vectors
    - Dot product and orthogonality
    - Applications
      - Forces
      - Air speed/ground speed
      - Work
  o Complex number system
    - Definitions
    - Arithmetic and simplification of complex numbers
    - Trigonometric form
    - Products and quotients in trigonometric form
    - De Moivre’s Theorem
    - nth root theorem
  o Polar coordinate system
    - Definitions
    - Various representations for points using polar
    - Conversion between polar and rectangular coordinates
    - Graphs of polar equations
    - Conversion between polar and rectangular
    - Special polar graphs

**Academic Integrity**
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

The penalty for a student found cheating on any part of an assignment, quiz, or exam in this class will range from a grade of zero on the work to a grade of F in the course, and may result in additional, more severe disciplinary measures. A student who allows another to copy his work and the student copying the work are both guilty of cheating. Do your own work. Do not show your completed work to others. Do not allow others to copy your work.
Definition of Academic Dishonesty (SFA policy 4.1):
Academic dishonesty includes both cheating and plagiarism. Cheating includes, but is not limited to:

- using or attempting to use unauthorized materials on any class assignment or exam;
- falsifying or inventing of any information, including citations, on an assignment;
- helping or attempting to help other student(s) in an act of cheating or plagiarism.

Plagiarism is presenting the words or ideas of another person as if they were one’s own. Examples of plagiarism include, but are not limited to:

- submitting an assignment as one’s own work when it is at least partly the work of another person;
- submitting a work that has been purchased or otherwise obtained from the Internet or another source;
- incorporating the words or ideas of an author into one's paper or presentation without giving the author credit.

Withheld Grades (SFA Policy 5.5)
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average. The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

Students with Disabilities
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices.

Acceptable Student Behavior
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy 10.4). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

Student Learning Outcomes (SLO): At the end of MTH 133, a student who has studied and learned the material should be able to:

1. State and use the unit circle and ratio definitions of the six trigonometric functions.
2. Recall and use exact values of the trigonometric functions at integer multiples of π/4 and π/6 in various contexts, especially in graphing trigonometric functions.
3. Graph the trigonometric functions, and graph transformations of trigonometric functions by recognizing amplitude, changes in period, vertical translations, and phase shifts.
4. Use appropriate trigonometric identities in solving equations involving trigonometric functions and in calculating trigonometric function values.
5. Use logical reasoning and known trigonometric identities to verify that an equation is a trigonometric identity.
6. Use inverse trigonometric functions in applications and in solving equations.
7. Determine unknown measures of sides and/or angles of triangles for which some specific measures are given.
8. Solve application problems using tools such as vectors, right triangle trigonometry, the Law of Sines, and the Law of Cosines.
9. Perform arithmetical operations with complex numbers and find powers and roots of complex numbers in trigonometric form.
Math 133 – Plane Trigonometry  
Syllabus Continuation

10. Use the polar coordinate system, relate it to the rectangular coordinate system, and graph equations using polar coordinates.

There are no specific program learning outcomes for this major addressed in this course. It is a general education core curriculum course and/or a service course.

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