

CLARENDON COLLEGE
Spring 2012
Math 1316
Trigonometry

Instructor: Linda Rowland
Box 968
Clarendon, TX 79226

Office: 109
Phone: 806-874-4824
e-mail: linda.rowland@clarendoncollege.edu

Classroom Location: Silverton High School
Hedley High School
Memphis High School

My Office Hours: MW 9:00-10:00, 6:20 – 7:20
M 12:30-3:00
T 12:30 – 1:00
W 12:30 – 1:00
TH 12:30-1:00
F 9:00 – 11:00

Course Description: Trigonometric functions, identities, trigonometric equations, logarithms and inverse trigonometric functions.

Lecture Hours: 3
Laboratory Hours: 0
Semester Hours: 3

Prerequisites: Math 1314 or consent of instructor.

Statement of Purpose:

This course is intended to provide the student with the skills and concepts needed to be successful in his/her study of Trigonometry and further studies in Mathematics and Science.

Required Instructional Materials:

Textbook: Sullivan/Sullivan. Trigonometry: A Right Triangle Approach, 5ed. Pearson Education Inc., 2009

Supplies: Textbook, paper, graph paper, pencil, MathXL and graphing scientific calculator

Methods of Instruction:

1. Answer questions and review any questions from lecture or math lab.
2. Explanation of the concept and skills under consideration
3. Provide examples on the board with step by step explanation of the operations and principles being applied.
4. Comment when appropriate on the history, importance, and application of specific concepts.
5. Overheads and power point when appropriate.
6. Videos and animations are available on MathXL and the Student Portal to be used as re-enforcement of concepts

Course Objectives

At the end of the course the student should be able to:

1. Convert angle measurements from radians to degrees and degrees to radians.
2. Find the angular and linear velocity.
3. Find the six trigonometric functions and the three angles of a triangle when given the measurement of two sides.
4. Graph the trigonometric functions
5. Verify identities
6. Use the many different identities to solve for the length of a side and/or angle.
7. Use the Laws of Sine and Cosine to solve for missing lengths and/or angles.
8. Write complex equations using trigonometric functions.
9. Write polar equations

Exemplary Objectives:

1. To apply arithmetic, algebraic, higher-order thinking methods to modeling and solving real-world situations.
2. To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.
3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and determine the reasonableness of the results.
5. To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
6. To recognize the limitations of mathematical models and to learn to think out-side-the box.
7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.

Grading Policies: All assignments are found on MathXL at www.mathxl.com

Daily work: 15%

Quizzes 15%

Tests 20%

Final: 35% Final will be given at the time set by the Dean of Instruction and will be paper and pencil test in the classroom.

FOR CLASSES LOCATED ON CLARENDON COLLEGE CAMPUS—NO GRADES WILL BE ACCEPTED UNTIL CLASS CONTRACT HAS BEEN SIGNED. ANY GRADES TAKEN BEFORE THE CLASS CONTRACT IS SIGNED WILL BE RECORDED AS A ZERO.

A simple average of the above will be used to determine the letter grade for the course based on the following:

90 – 100%	A
80 – 89.9%	B
70 – 79.9%	C
60 – 69.9%	D
60 or below	F

A student's final grade will be made available through the Student Portal at Clarendon College's website.

Student Academic Integrity:

Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating violations include, but are not limited to: (1) obtaining an examination, classroom activity, or laboratory exercise by stealing or collusion; (2) discovering the content of an examination, classroom activity, laboratory exercise, or homework assignment before it is given; (3) using an unauthorized source of information during an examination, classroom activity, laboratory exercise, or

homework assignment ; (4) entering an office or building to obtain unfair advantage; (5) taking an examination for another person; (6) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person; (7) altering grade records; (8) using any unauthorized form of electronic communication device during an examination, classroom activity, or laboratory exercise; (9) Plagiarism. Plagiarism is the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person without proper credit.

Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Students when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name, and the type of cheating involved. In the Mathematics class, the student will receive an F for the entire course if caught cheating.

Students who are reported as cheating to the Dean of Students more than once shall be disciplined by the Dean. The Dean will notify all involved parties within fourteen days of any action taken.

Classroom Conduct:

I will show you the respect you deserve as a student. I, in return, expect respectful behavior from you.

Disrespectful behavior includes...

- **Arriving late.**
- **Leaving the room during class time.** Plan restroom visits before or after class—not during class. If special needs exist, please make prior arrangements.
- **Using electronic communication devices.** This includes cell phones, pagers, etc. Cell phones cannot be used in place of calculators. These are not allowed during class time. Make arrangements to leave these devices in your vehicle, dorm, someplace other than the classroom. If special needs exist, please make prior arrangements.
- **Sleeping in class.**
- **Talking in class.** Class time is not the time to visit with your fellow classmates. If you do, I will ask you to leave the classroom.
- **Using headphones.** If you do, I will ask you to leave the classroom.
- **Use of profane or inappropriate gestures and/or language.**
- Wearing inappropriate clothing (showing too much skin, vulgar t-shirts, etc)

Class Policies:

1. **Final Exams:** Students must take a final exam for each of their academic courses. The schedule of final exams times is published at the beginning of the semester. Do not make plans to leave school before your scheduled final exam. I will not give any early finals except in extreme emergencies after students have provided documentation of said emergency.
2. **Scholastic Honesty:** I adhere to a strict policy regarding academic honesty. Anyone who is dishonest in any way will receive a zero for the course with a grade of F. Note that dishonest behavior includes both the act of copying someone else's work as well as allowing someone to copy your work. Both students are equally guilty and will be equally punished.
3. **Electronic Communication/Entertainment Devices:** The use of cell phones, iPods, or other electronic communication or entertainment devices is prohibited. A first offense will result in confiscation of the device for one day. A second offense will result in loss of the device for one week. A third offense will result in loss of the device for the remainder of the semester.
4. **Withdrawal:** If you decide that you are unable to complete this course or that it will be impossible to complete the course with a passing grade, you may drop the course and receive a "W" on your transcript instead. Withdrawal from a course is a formal procedure that you must initiate. If you do not go through the formal withdrawal procedure, you will receive a grade of "F" on your transcript.
A student is permitted to drop a course if he/she obtains an official drop slip from the office and has the instructor sign the slip before the 12th class week.
Remember, a student is only allowed to drop the same class twice before he/she will be charged up to triple the tuition amount for taking the class a third time or more. Furthermore, beginning with the Fall 2007 semester, students in Texas may only

drop a total of 6 courses throughout their entire undergraduate career. After the 6, he/she will no longer be able to withdraw from any classes.

If you think you need to drop this course, please talk with me about it first. It is possible that there is something you can do to still pass the course. Don't hurt your chances for a passing grade in the course by not attending labs or taking exams before we have discussed your situation. **The last day to withdraw from this course with a "W" is (this changes every semester)**

5. **Absences:** Please take class attendance seriously for it is mandatory. You are here to learn all you can learn, to build a body of knowledge to help you in your career and/or to give you satisfaction in the future. Students who are motivated come to class. **You are responsible for the material covered in class (lecture or lab) even if you are absent.** After the second unexcused absence, the attendance grade goes to a zero.
6. **Excused absences:** Make-ups for tests will be allowed *only* if absences are excused. Excused absences can result from...
 1. illness on the part of the student which must be documented by a doctors note or a note from the Dean of Instruction or the Dean of Students
 2. severe illness or death in your *immediate* (not extended) family documented by the Dean of Instruction
 3. College sanctioned extracurricular events which must be documented by your coaches.
 4. Unfavorable weather conditions that prevent students from reaching the college.

You should telephone or e-mail me *in advance* of the absence (leave a message if necessary). Even in emergencies, it usually is possible for you to get word to me about an absence. When you return, you must furnish proof of the reason for your absence if you wish for it to be excused. Proof consists of a note from the doctor or an e-mail from the Dean of students or your coach.

7. **Make-up work:** Late or unexcused work will not be accepted. Students who have excused absences **MUST** let me know **before** the test is given that we need to schedule a make-up. In most cases, the tests must be taken **PRIOR** to the absence in order to receive full credit.

American with Disabilities Act Statement: Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, it is your responsibility to notify the Office of Student Services (806-874-3571 or 800-687-9737). We will then work with you to make whatever accommodations we need to make.

Important dates: Spring Break	March 12 th – 16 th
Easter Break	April 6 – 9th
Last Day to drop with a W	Thursday, April 13th
Final Exams	May 7 th – 10 th

Tentative Course Schedule/Outline: All assignments, quizzes and chapter tests are located on your MathXL

Chapter 1 due by January 25, 2012
Chapter 2 due by February 12, 2012
Chapter 3 due by March 1, 2012
Chapter 4 due by March 13, 2012
Chapter 5 due by April 4, 2012
Chapter 6 due by April 21, 2012
Chapter 7 due by May 5, 2012

May 7/11 is **Finals week**. Final is comprehensive and will be given at the time specified by the Dean of Instruction. To take the final at any other time, you must have a note given to me by the Dean of Instruction giving permission to reschedule the test for you.

You can see assignment grades, test grades and quiz grades in your mathxl or in your student portal.

All assignments are subject to change at the discretion of the instructor.

