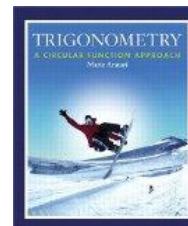


**Text:** *Trigonometry a circular function approach*, by Marie Aratari

**Instructor:** Dr. D. W. Boyd      **Office:** Ashley Hall 230  
**Phone:** 333-5788      **email:** dboyd@valdosta.edu  
**Hours:** 9:30 - 10:30 a.m. TTh or by appointment



Enrollment in this course obligates the student not only for prompt completion of all work assigned, but also for punctual and regular attendance. The student has the responsibility for keeping informed concerning all assignments made. Absence does not absolve the student from this responsibility. Absence from more than 10% of the class meetings [3 class meetings] during the semester is considered excessive, and will result in a grade penalty. Absence from more than 20% of the class meetings [6 class meetings] will result in a failure in the course.

### VSU GENERAL EDUCATION OUTCOMES

3. Students will use computer and information technology when appropriate.
4. Students will express themselves clearly, logically, and precisely in writing and in speaking, and they will demonstrate competence in reading and listening.
5. Students will demonstrate knowledge of scientific and mathematical principles and proficiency in laboratory practices.
7. Students will demonstrate the ability to analyze, to evaluate, and to make inferences from oral, written, and visual materials.

### LEARNING OUTCOMES

The student will:

1. Identify the major arc measures and angle measures around the unit circle. (5,7)
2. Evaluate the six trigonometric functions according to the points on the unit circle. (5,7)
3. Solve right triangles and their applications using right triangle definitions and inverse trigonometric functions. (4,5,7)
4. Graph the trigonometric functions and identify the domain, range, period, amplitude and phase shifts. (3,5,7)
5. Solve non-right triangles using Law of Sines and Cosines and inverse trigonometric functions. (4,5,7)
6. Simplify expressions and verify identities using given trigonometric identities. (5,7)
7. Solve problems, simplify expressions, prove identities using the sum, difference, double angle and half angle identities. (4,5,7)
8. Solve conditional and multi-angle equations using algebra and inverse circular functions. (4,5,7)
9. Convert complex numbers to trigonometric form or polar form. (5,7)

**GRADING CRITERIA:**

4 tests, quizzes	75%
Final Exam	25%

**GRADING SCALE:** 90 -100: A,    80 – 89: B,    70 – 79: C,    60 – 69: D,    0 – 59: F

- All students **MUST** take all tests. Makeups for missed tests will NOT be given. If you miss a test, the final exam will count 50% of the final grade instead of 25%. A second missed test will be scored as a zero. A missed test counts as an absence.
- There will be **NO** make-up quizzes given. A grade of zero will be assigned for quizzes missed due to an unexcused absence.
- Homework assignments are for your benefit. Your assignment includes reading the material in the text before the class in which it is to be discussed. You should plan to use a couple of hours each day outside of class to work on this course.
- Get a study buddy or a study group. If you need help, get it! Tutoring is available in the Student Success Center in Langdale Hall. I am available during office hours or you can schedule an appointment with me.

Topics to be covered include, but are not limited to:

- Circular Functions and their graphs
- Trigonometric Functions
- Solutions of Triangles
- Identities
- Complex Numbers
- Parametric Equations and Polar Coordinates

## **ACADEMIC DISHONESTY**

We all know what cheating is. Don't do it! Cheating on tests and/or a final examination can result in total dismissal from VSU. Any talking during tests will be considered a form of cheating.

## **PROFESSIONAL CONDUCT**

- Come to class every time it is scheduled, be on time, and do not leave early.
- Turn in assignments and other materials on time.
- Do not pack up your books early.
- Stay on task – learning mathematics.
- Be prepared.
- Do **NOT** cheat. Procedures for academic dishonesty will be followed if work presented as your own is not actually your own work.
- Through your actions and words, display that the work you are doing is important.
- Be courteous to and respectful of others. All students have the right to hear in class lectures, so do **NOT** converse privately during class lectures. Turn off all electronic communication devices.
- Clean up after yourself.
- Demonstrate a positive attitude.

**Special Services:** Students requiring classroom accommodations or modifications because of a documented disability should contact the Access Office for Students with Disabilities located in Farber Hall. Phone numbers: (229)245-2498 (voice) (229)219-1348 (tty).