

**WISCONSIN LUTHERAN HIGH SCHOOL  
2007-2008**

**TRIGONOMETRY  
MR. BRADLEY WETZEL**

**TEXTBOOK:** *Trigonometry, Fourth Edition, (Houghton Mifflin, 1997)*

**COURSE PURPOSE:**

Trigonometry is a study of relationships involving triangles and triangle applications. Students in trigonometry will see how God's greatness is evident in ordering our universe. Knowledge and skills gained in this course will not only allow students to see trigonometry as a modern modeling language for real-life problems, but also will allow students to continue their path in Christ-centered living as they prepare for college. Completion of trigonometry prepares students to continue their study of mathematics in Precalculus.

**COURSE OUTCOMES:**

In Trigonometry, students will:

1. demonstrate understanding of God's creation by solving real-life trigonometry problems.
2. demonstrate organizational and notetaking abilities in written and technological notebooks.
3. demonstrate responsibility by turning in completed homework in a timely fashion.
4. demonstrate mastery of trigonometric concepts including radian measure, identities, complex solutions, functions, and analytic geometry.
5. demonstrate ability in analysis and critical thinking skills in both written and oral form.
6. demonstrate integration of technological strategies into problems solving.

**COURSE GOALS:**

- Students will develop an understanding that God may be glorified by their pursuing a career in a mathematics related field.
- Students will glorify God through both student-teacher and peer relationships which are developed throughout the year.

## **COURSE OUTLINE**

TRIGONOMETRY (pp. 115-207)

ANALYTIC TRIGONOMETRY (pp. 213-266)

APPLICATIONS IN TRIGONOMETRY (pp. 267-312)

COMPLEX NUMBERS (pp. 318-349)

## **INSTRUCTIONAL STRATEGIES**

Lecture	35%
Question and Answer	20%
Group Work	20%
Guided Practice	15%
Discussion	10%

## **QUARTER GRADING:**

Tests	40%
Homework	30%
Quizzes	20%
Notebook	10%

## **SEMESTER GRADING:**

Quarter	40%
Quarter	40%
Semester Exam	20%

## **BRING TO CLASS EACH DAY:**

- Pen and pencil
- Textbook
- Calculator
- Trigonometry notebook
- Loose-leaf paper