

*Instructor:* Dr. Brian Heck  
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*Office Hours:* 1:00-3:00pm M, W  
 10:00-12:00pm; 1:30-3:30pm T, Th

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**Prerequisites:** Math 101 (with a C or better) or advanced placement.

**Text:** Trigonometry (2<sup>nd</sup> ed.) by Sullivan & Sullivan (Prentice Hall)

**Calculator:** We will at times make use of calculator technology. You will need to have a scientific calculator and be able to use it efficiently.

**Course Description (catalog):** Trigonometric ratios, circular functions and graphs, solutions of triangles, logarithmic and exponential functions, inverse functions, identities and equations, complex numbers, introduction to analytic geometry.

**Course Description (Instructor):** That sounds about right. We will begin the semester in Chapter 2. This material is basic and not too difficult, but it is crucial to everything else we will cover, so we will cover it carefully. Chapter 3 deals with trigonometric identities, which is one of the most fun topics in trigonometry. In Chapter 4 we learn how to solve a triangle, and applications will be stressed in this chapter. We will finish up with selections out of Chapter 5 and 6. Topics to be covered include complex numbers and conic sections.

**Course Objectives:** To learn as much trigonometry as humanly possible in one semester.

**Instructor Expectations:** Come to class prepared (with text and fully aware). In order to understand what we are doing in class, it will be necessary for you to read sections and do problems outside of class. I will expect you to understand Chapter 1 (“Functions”) in our text. If any of this material is either unfamiliar to you or difficult to you, I expect you to come see me so we can work on it.

**Grading Policy:**

|                   |                |
|-------------------|----------------|
| <b>Tests (4)</b>  | 400 pts        |
| <b>Final Exam</b> | <u>200 pts</u> |
|                   | 600 pts        |

**Grading Scale:**

|           |             |
|-----------|-------------|
| <b>A:</b> | 540-600 pts |
| <b>B:</b> | 480-539 pts |
| <b>C:</b> | 420-479 pts |
| <b>D:</b> | 360-419 pts |
| <b>F:</b> | < 360 pts   |

**Attendance:** I will not include attendance as part of your course grade. I am not your mother or your parole officer, and this is not high school. I do, however, expect you to attend everyday. You are responsible for any and all material covered in class. If you miss any class, it is up to you to meet with me (if necessary) and catch up on the material you missed.

***Tentative Class Schedule:*** We will assume knowledge of Chapter 1. You should look this chapter over, and if you get questions, please come see me. Below is a list of the sections we will attempt to cover this semester. If time allows, more sections may be added. If time does not allow, some sections listed may be skipped.

Chapter 2: Sections 1-7

**\*\*Test 1...Friday, February 8, 2002\*\***

Chapter 3: Sections 1-7

**\*\*Test 2...Friday, March 8, 2002\*\***

Chapter 4: Sections 1-5

**\*\*Test 3...Wednesday, March 27, 2002\*\***

Chapter 5: Sections 1-3

Chapter 6: Sections 1-4

**\*\*Test 4...Monday, April 29, 2002\*\***

**\*\*\*Final Exam...tba\*\*\***

***Closing Remarks:***

You are at a university, not a trade school. The goal is intellectual development and knowledge for knowledge sake. If you want to only learn what you need to get a job, go somewhere else.

Do not ask me why you need to learn the material we are currently learning. The answers are (1) because it will be on the final (2) because this is what trigonometry is, and any course called Trigonometry should cover this, and (3) because I say so. If during the semester you get the urge to ask me why we are learning something, re-read this paragraph. If you are still unsure, see (3) above.

It is assumed that you are attending this university because you have a desire for higher learning. It is therefore expected that you will pay attention, be respectful of your instructor and fellow students, and follow the Code of Student Conduct. Instances of academic dishonesty will be dealt with severely. If you are caught cheating, you will fail this course. Similarly, if you are a disruptive presence in the classroom, you will be dropped from the class.

***Important Dates:***

Final Date to Add Courses or Drop Without a "W" - Friday, January 18, 2002

Final Date to Drop Courses With a "W" - Thursday, March 28, 2002