

**Guidelines for MAC 1114 Trigonometry  
by Carmen Shershin, Course Coordinator  
2009-2010**

1. All the sections listed in the syllabus must be covered. The teaching pace should be appropriate to cover the material. (See approximate number of weeks for each chapter in the syllabus.)
2. Distribution of grades for the course should be in line with the average for the department. In the past, about 45% of the students initially enrolled in a Trigonometry class obtain a C or better grade. Do not lower the standards.
3. It is important for students to know from the start that in this course there is a substantial amount of formulas to be memorized, derivations (proofs) to be established, and calculations of exact values of trigonometric functions without the use of a calculator.
4. **Graphing Calculators are not allowed during tests nor are formula sheets.** In general, students must show the work justifying their answers. You may give some formulas (the ones that are not to be memorized) on the actual tests.
5. It is recommended that you give a minimum of three tests. (Suggestion: two tests before the drop date.) You may give several quizzes instead of a test.
6. Test questions should be similar to the text exercises listed in the syllabus, requiring students to show the work justifying their answers. Tests should not consist exclusively of multiple choice questions.
7. The final exam must be comprehensive and no student should be exempt from it.
8. Encourage students to take advantage of all the free help that is available for them. Refer to Math Help in the math department website.
9. **Adjunct instructors**, please put in my mailbox a copy of each test as soon as possible after you have graded it, and include the grade distribution. This will help me, as course coordinator, to monitor your class progress throughout the term. Thank you.
10. Do not hesitate to contact me by phone 305-348-3047 or by e-mail [shershcb@fiu.edu](mailto:shershcb@fiu.edu) for any reason pertaining to the course.

**Syllabus for MAC 1114 Trigonometry  
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**Text:** *Algebra and Trigonometry* by Michael Sullivan, 8<sup>th</sup> edition, Pearson Prentice Hall.

**Chapter 7. Trigonometric Functions.** ( $\approx 3.5$  weeks)

Section 1. (#11-90) Omit objective 5: finding linear speed of object in circular motion.

2. (#11-60)
3. (#5-28, and #55-70)
4. (#11-114)
5. (#9-75)
6. (#9-92)
7. (#7-42)
8. (#3-18) Omit objective 2: finding sinusoidal function from data.

**Chapter 8. Analytic Trigonometry.** ( $\approx 4.5$  weeks)

Section 1. (#1-68)

2. (#1-66)
3. (#1-91)
4. (#1-82)
5. (#1-80)
6. (#1-24) Formulas in this section do not have to be memorized.
7. (#3-40)
8. (#5-46)

**Chapter 9. Applications of Trigonometric Functions.** ( $\approx 1$  week)

Section 1. (#9-26)

2. (#9-42)
3. (#9-35)

**Chapter 10. Polar Coordinates; Complex Numbers; Vectors.** ( $\approx 3$  weeks)

Section 1. (#1-82)

2. (#1-74)  
Quick review of complex numbers: **Chapter 1** section 3. (#1-72)
3. (#5-60)
4. (#1-60)

**Chapter 11. Analytic Geometry.** Cover this chapter last. ( $\approx 2$  weeks)

Section 1. Definition of conics. Derivation of equations from the definitions.

2. (#1-74)
3. (#1-76)
4. (#7-60)