

MATH 1730-07 Precalculus
Fall Semester 2004
CX 109 MTuThF 11:15-12:10

Instructor: Dr. Samuel Jator

Communications

I invite you to come by my office (CX 329 A) as follows: 9:00-11:00 daily. By phone, dial 931-221-7313(Office) or 931-358-9433(Home). My email address is Jators@apsu.edu. You can also visit my web site at <http://www.apsu.edu/Jators>.

Prerequisites: High School Algebra

Credit: 3 Credit Hours

Text: *Precalculus: Mathematics for Calculus*. James Stewart, Lothar Redlin, and Saleem Watson. Pacific Grove, California: Brooks/Cole, fourth edition, 2002.

Course Description

Analysis of functions and their graphs, inverse functions, exponential and logarithmic functions, theory of equations, conic sections, circular functions and their graphs, trigonometric identities and conditional equations, solutions of triangles, trigonometric form of complex numbers. DeMoivre's Theorem, parametric and polar equations.

Course Goals

After studying this course you should understand:

- How to relate certain algebraic topics to trigonometry problems.
- What is required to gain a reasonable level of competency in skills involving trigonometry and the exponential/logarithmic functions.
- How exponential/logarithmic functions and trigonometry may be applied.
- The mathematical background necessary for calculus.
- How to use technology such as TI-85/TI-86 graphing calculator to enhance mathematical concepts.

Course Contents

- Functions (chapter 2)
- Exponential and Logarithmic Functions (chapter 4)
- Trigonometric Functions of Real Numbers (chapter 5)
- Trigonometric Functions of Angles (chapter 6)
- Analytic Trigonometry (chapter 7)

Calculator Requirement

The suggested calculator is the TI-85 or the TI-86.

Requirements/Grading

Homework: Regular homework assignments and quizzes will be given and will count 100 points toward the final grade. Late submission of required homework to be graded will be unacceptable. Poor presentation of the assignments will be penalized in points.

Examinations: There will be four examinations. Three of them will be announced in class and each will have a weight of 100 points. The last examination that will be comprehensive will be taken during the examination period in December and will have the same weight as the other

tests. Each examination is typically focused on the material covered since the previous one, but may include questions about supporting materials from previous sections in the course. The total score for the examinations will be 500 points, and will be converted to reflect the grading scale given below.

Make Up Tests: Make up tests will be given during the week preceding the examination week. Make up tests are generally more difficult than the regular in class tests. There is no make up for the quizzes and they cannot be taken early.

How Points and Percentages Equate to Letter Grades

90-100%	A
80-89%	B
70-79%	C
60-69%	D
0-59%	F

Attendance

Regular attendance is expected. Unavoidable absences that might be due to illness must be proven with a medical report. Students are strongly discouraged from irregular attendance that will normally lead to poor performance in the course.

Disability

Students with disabilities are encouraged to consult the office of disability. I will respect all university policies for students under this category. The telephone number for the Office of Disability Services is 221-6230.

Cell Phones

In order to be fair to other students, please turn off your cell phones before entering class.

University Policy on Minors

According to APSU policy #3:032, minors (defined as those under the age of 18) are not allowed in classrooms. For additional information on minors on campus, contact the Office of Student Affairs in the Morgan University Center.

Withdrawing From Class

My policy is to grant W's to those students who withdraw officially on or before the date listed in the university calendar as the last day to drop a class with a "W", "F", "FN", or "FA". This semester that date is Nov. 12. **Withdrawal after that date will result in an F** except for extreme circumstances such as being hospitalized and unable to finish the course.