Math 1 113

PRECALCULUS

Master Syllabus

Valdosta State University - Mathematics Department

Math 1 113 is a 3 credit hour course.

Prerequisites:

Math 1112(Trigonometry) with a C or better or with Math Placement score.

Course Description: Identify types of functions, their domain and range, and be able to analyze the se functions from a numeric, graphical, and symbolic point view. The functions include linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric.

- 2.) Identify and find the inverse of functions.
- 3.) Use the various functions to solve application problems.
- 4.) Apply transformations to various graphs of functions

General Outline of Topics

1.) Graphs and Functions

- Transformations with graphs
- Composition of functions
- Inverses of functions

2.) Polynomial and Rational Functions

- Graph the Quadratic, polynomial, and rational functions
- Discuss End Behavior of functions and find the zeros.
- Variation Problems

^{*}For additional information about your particular course including grading textbook, assignments and tests, contact your course instructor for your syllabus.

3.) Exponential and Logarithm Functions

- Graph the exponent ial and logarithm function
- Application problems Growth, Decay, Compound interest
- National Exponential Function
- Rules and Laws of Logarithms
- Solving exponential equations

4.) Trigonometric Functions

- Angles and their measure Unit Circle & Evaluate the trig functions
- Reference angles
- Trigonometric identities soltino a[123 (i)0.6 (g)133 0 Td ()Tj /To(o)u4 Tw 0 Tw 11.1