Mathematics 110 Pre-Calculus, Spring 2011
MWF: 1:00-1:50
CTCC Room 253

Instructor: Eric Dodson Office: Wesselkamper 110
Phone: 739-8363 email: eric.dodson@chaminade.edu

Office Hours: M,F: 2:00-4:00PM ; Tu,Th 9:00-10:00 AM
And by appointment

Text : **Precalculus**, Sullivan & Sullivan

Prerequisites: MA 103 or placement

Grading: The course grade will be based on:

Quizzes	20%
Midterms(4)	60%
Final Exam	20%

With the following cutoffs: A=86-100, B=76-85, C=61-75, D=50-60, F=<50
No extra credit will be offered.

Attendance: You are responsible for all material that is covered in class. If you miss a class, it is your responsibility to get with another student in the class to obtain the notes for that day, and prepare yourself for the next quiz. Attendance will be taken via the daily quiz.

Quizzes: A five to ten minute quiz will be given at the beginning of every class. The quiz will start promptly at 1:00 PM. The material to be covered on the quiz will be presented the previous class and practice problems will be given. No make-up quizzes will be given. At the end of the semester I will drop your two lowest quiz scores. Here's your first MATH problem of the semester: Class meets 42 times, minus 4 midterms, minus 2 dropped quizzes. What percentage of your grade does each quiz count for?

Midterms: Four midterms will be given. At the end of the semester the lowest score will be dropped. The dates of the midterms are listed below.

Midterm I	Friday, January 28
Midterm II	Friday, February 18
Midterm III	Friday, March 11
Midterm IV	Friday, April 8

There will be no makeup exams except for special cases (deployment, serious illness, etc.); verification will be needed.

Final Exam: Date and time: Tuesday, May 3rd 10:30 AM-12:30 PM
The final exam will be comprehensive

Helpful advice: Come to class every day. Read the sections to be covered before class.
Ask questions. Study the material covered in class every day and come get help if you get stuck. Stay on top of the material (Don't cram). If you are having difficulty come see me ASAP

Math is not a spectator sport, the only way to get better is to practice.

Use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes. Student who cannot comply with this rule will be asked to leave. Please refer any questions to the Dean of Natural Sciences/Mathematics

Material to be covered:

Chapter 1: Functions and Their Graphs
- Definition, properties and graphs of functions
- Average rate of change
- Transformation of graphs
- Mathematical models: building functions

Chapter 2: Linear and Quadratic Functions
- Linear functions: equations and graphs
- Quadratic functions and their zeros
- Properties of quadratic functions
- Applications of quadratic functions

Chapter 3: Polynomial and Rational Functions
- Properties of polynomial functions
- zeros and multiplicity
- Maxima and minima
- Properties of rational functions
- Asymptotic behavior of rational functions

Chapter 4: Exponential and Logarithmic Functions
- Properties of exponential functions
- Properties of logarithms
- Solving exponential and logarithmic equations
- Applications
- Inverse functions

Chapter 5: Trigonometric Functions
- Angles and their measure
- Right triangles
- The unit circle
- Sinusoidal curve fitting

Chapter 6: Analytic Trigonometry
- Inverse trigonometric functions
- Trigonometric equations
- Trigonometric identities

Chapter 7: Applications of Trigonometric Functions
- Law of Sines
- Law of Cosines
- Rotational motion
- Simple harmonic motion

And selected topics from (time permitting)

Chapter 8: Polar Coordinates, Vectors

Chapter 9: Analytic Geometry