

Mathematics 110 Pre-Calculus, Fall 2012  
MWF: 10:30-11:20  
Henry 227

Instructor: Eric Dodson Office: Wesselkamper 110  
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Office Hours: M, Tu, Th: 3:00-4:00PM ; Fr 11:30 AM-12:30 PM  
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 41 times. What percentage of your grade does each quiz count for? [Hint: No quizzes when we have a midterm]

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, September 14
Midterm II	Friday, October 5
Midterm III	Friday, October 26
Midterm IV	Friday, November 16

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

Final Exam: Date and time: Thursday, December 13th 11:00 AM-1:00 PM  
The final exam will be comprehensive

Helpful advice: Come to class every day. Take good notes and ask questions. Study the material covered in class every day and master the assigned practice problems. 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:

Review: Fractions and Exponents

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

Limits

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