Mathematics 110 Pre-Calculus, Spring 2012
MWF: 11:30-12:20
CTCC 254

Instructor: Eric Dodson Office: Wesselkamper 110
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Office Hours: Tu, Th: 10:30-11:30 AM
                   And by appointment

Text :   **Precalculus (2ⁿᵈ Edition)**, Fred Safier

Prerequisites: MA 103 or placement

Grading: The course grade will be based on:

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

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 11:30 AM. 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, February 3
                   Midterm II   Friday, February 24
                   Midterm III   Friday, March 16
                   Midterm IV   Friday, April 13

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

Final Exam: Date and time: TBA
                   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

Topics to be covered:

1. Scientific Notation
2. Exponents
3. Fractions
4. Functions
5. Graphical Analysis of Functions
6. Graphical Transformation of Functions
7. Linear Functions
8. Quadratic Functions
9. Motion with Constant Acceleration
10. Algebra of Functions
11. Inverse Functions
12. Exponential Functions
13. Rational Functions
14. Limits
15. Logarithms
16. Exponential and Logarithmic Equations
17. Trigonometric Functions and Their Graphs
18. Equations for Rotational Motion
19. Trigonometry of Right Triangles
20. Law of Sines and Law of Cosines
21. Vectors