

MTH 140 — Elementary Functions, PreCalculus – Winter 2006

Instructor: Dan Maggio
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Office — Engineering 244; 313-993-1435
Office Hours — 4:00-5:15 MW, but I am usually around all day Monday through Friday.

Class Time: 5:15 - 6:30 MW, Room E260

Description: This course will introduce the student to the concept of a function, its graph and its application in solving problems from fields such as the natural sciences, social sciences, business, and/or engineering. Types of functions to be covered: polynomial, piecewise, rational, exponential, logarithmic, and trigonometric.

Prereq: A "C" or better in MTH 101 or the Math Placement Exam.

Text: "PreCalculus" by Faires and DeFranza; 3rd edition. ISBN# 0-534-46279-0

Calculators: You are required to have a graphing calculator and, more importantly, know how to use the graphing features on your calculator (in addition to the basic functions). The TI-83/83 plus is recommended. The quizzes and exams will often require the use of a graphing calculator.

Material: My goal is to cover the following material:
Chapter 1, sections 4-8 (a few items from sections 1 and 2)
Chapter 2, sections 1-5
Chapter 3, sections 1,2,4,5 (6 if time permits)
Chapter 5, sections 1-4
Chapter 4, sections 1-9
Chapter 6, sections 5 and 7

Exams: There will be three exams in this course: two regular exams and a final. I do not allow notes or books on the exams, but you can bring in one 4" by 6" note card. I do not drop any exam grades.
Exam 1 — *around* Monday, February 6
Exam 2 — *around* Wednesday, March 15
Final Exam — Monday, April 24, 5:00 – 6:50

Make-Up Exams: If circumstances *beyond your control* cause you to miss an exam, I will arrange a make-up exam for you. If you miss an exam, you must call me within 24 hours of the exam or you will forfeit your chance for a make-up.

Quizzes: There will be regular quizzes (mostly in-class) in this course, about one a week. Quizzes will always be announced ahead of time and will be given at the end of the period. They will consist of 2-3 questions. I will drop your lowest quiz grade. There are no makeup quizzes regardless of the reason, so please don't ask.

Final Grade: Quizzes $\frac{1}{4}$ Each exam $\frac{1}{4}$

$$0.25 \times \text{QuizAverage} + 0.25 \times \text{Exam1\%} + 0.25 \times \text{Exam2\%} + 0.25 \times \text{FinalExam\%}$$

Grading Scale: 94 - 100 A 87 - 89 B+ 77 - 79 C+ 67 - 69 D+ 0 - 59 F
90 - 93 A- 83 - 86 B 73 - 76 C 60 - 66 D
80 - 82 B- 70 - 72 C-

Midterm: There is no midterm exam in this course. Midterm grades are based on the exam and quiz grades up to that point.

Homework: I do not collect or grade homework (unless it is a take-home quiz). I'll assign problems after each section is covered. Since quiz and exam questions might come from these problems, it is a good idea to keep up on your homework.

Important Monday, January 16 — University closed, no classes.

Dates: March 6-10 – Spring Break

Friday, April 14 — University closed, no classes

February 3 – Last day to drop without a W

March 31 – Last day to withdraw from a class, with a W

Free Tutoring: There is free tutoring available in the Learning Center, Basement of the Student Union. They do much more than math and it's free. Check them out.

Your Responsibility: You are responsible for everything that is said, covered, handed out, and announced *whether or not you are in class*.

My best advice for getting the grade you want is to not skip class, do your homework and ask questions – you'll be amazed what this can do for your grade.