

# Mathematics 140: College Algebra.

UT Martin Department of Math and Statistics. Fall 2005.

## Essential information

Class meetings: Tuesday and Thursday, 9:30-10:45. Humanities building room 414.

Instructor: Matthew Harvey

Office: Clement Hall, room 377.

Office phone number: 881-7359

Email: mharvey@utm.edu

Website: <http://www.utm.edu/staff/mharvey/math140.html>

Office hours:

	Monday	Tuesday	Wednesday	Thursday	Friday
8-9					
9-10					
10-11	office hours	m140 room 414	office hours	m140 room 414	office hours
11-12	m140 room 414		m140 room 414		m140 room 414
12-1					
1-2		m330 room 414		m330 room 414	
2-3	m160 room 414		m160 room 414		m160 room 414
3-4	office hours				
4-5					
5-6					

## Course description

The prerequisite for this class is two units of high school algebra and appropriate mathematics placement result *or* successful completion of Math 080.

The primary textbook for this course is *College Algebra*, 6<sup>th</sup> ed by Larson and Hostetler. In addition, at the end of the semester, we will use the Math Department's packet *Triangle Trigonometry*. A graphing calculator is required for this course. Preferred models are the TI-83 and TI-84, but other models may be acceptable. Calculators with Computer Algebra Systems (CAS), such as the TI-89, are prohibited.

We will discuss the basic techniques for working with functions— in particular the trigonometric functions, exponential and logarithmic functions, and polynomials, as well as systems of linear equations. We will study these functions from both an algebraic and a graphical point of view, and learn some basic applications of these functions. The required material is covered in the trigonometry supplement and in the following sections of Larson/Hostetler: 2.1-2.7, 3.1-3.5, 4.1, 4.2, 5.1-5.5, 6.1-6.5, 7.1-7.4

## Attendance

Your presence in class is expected. Attendance is not required, but absences will of course result in a lower quiz grade. In class, you are expected to pay attention and contribute. At the very

least, you must not be a distraction to your fellow classmates. Cell phones and other noisy gadgets should be silenced during class.

## Grades

You will be assigned homework problems each class. It is highly recommended that you do as many of these problems as necessary to understand the material, but these will not be collected. Instead, you will take a short quiz at the beginning of each class (excepting test days) as a measure of your understanding of the recent material.

During the semester there will be four one-hour tests. These are tentatively scheduled on: September 20, October 13, November 10, and December 6. These dates are subject to change. A typical test would consist of between 10 and 20 short answer questions. To help you prepare, practice tests will be available to you on the course web site. No make-up exams will be given unless you can present a valid documented excuse. In this case, you will either take a make-up exam or be given a grade based on other assignments, whichever I feel is more appropriate.

At the end of the semester you will have a two-hour comprehensive final exam. This will be a multiple choice exam prepared by the department for all of the Math 140 classes. Your final exam grade can replace your lowest test grade (assuming your final exam grade is higher than your lowest grade).

Final grades will be decided according to these percentages:

A	90%-100%
B	80%-89%
C	70%-79%
D	55%-69%
F	0-54%

Quizzes 15%
Four Tests 60%
Final Exam 25%

## Cheating

Cheating will not be tolerated— any student caught cheating will receive an F for the course and/or be reported to the Office of Student Affairs.