

Elementary Functions and Coordinate Geometry
M305G (56240), Spring 2006

Instructor: Marcos Zarzar
Office: RLM 9144
Phone: (512) 475-9138
e-mail: zarzar@math.utexas.edu

Lectures: MWF 2-3 in BUR 108
Office Hours: Mondays and Fridays 3-4 pm, Thursdays 3-4 pm, or by appointment
Course Webpage: <http://www.ma.utexas.edu/users/zarzar/M305G>

Course Description: This course will prepare you for calculus courses (M408C, M408K) by introducing you to important functions that are studied in more detail in the calculus sequence. The course covers sets, algebra of functions, inverse functions, logarithms, exponential functions, trigonometric functions, inverse trigonometric functions, polynomials, rational functions, and the range, domain and graphs of these functions.

Required Text: M. Sullivan, *Precalculus*, 7th edition, 2004. Available at the Co-op. We will cover most of chapters 1-6. You will be responsible for any information discussed in class.

Evaluation: Your course grade will be determined by:

1. **Homework (15%)** Homework will be assigned once a week and will be due the following week. I will not accept late homework, unless you have a serious illness, emergency etc. Homework will be turned in at the beginning of class on the day it is due, otherwise it will be considered late. If you arrive late, turn in your homework as soon as you arrive in class. If you can not attend class, turn in early or send your assignment to class with a friend.
2. **Tests (50%)** There will be three tests given during class (50 minutes). Your lowest grade will count 10% and the other two will count 20% each.
3. **Final Exam (35%)** The final exam will be cumulative, and it will be given on the date assigned by the University.
4. A=100-90, B=89-80, C=79-70, D=69-60, F=59-0.

Resources to help you:

1. I will hold **office hours** during which we can discuss any questions you have about the course material or any problems you are having in the course. Please come! Students usually find this time to be very helpful. Don't wait until the week before the test to get help.
2. Visit often the **class webpage**. There you will find information on the homework assignments, test dates, suggested material for test preparation etc.
3. If you need tutoring, the **UT Learning Center**, located in the Jester Center, offers drop-in tutoring (free of charge!), one-on-one tutoring by appointment, review sessions and practice tests. There is a link to UTLC at the course's webpage.

Other Policies:

1. If you will be unable to turn in homework or take a test at the scheduled time, discuss the conflict with me as soon as possible, preferably at least 3 days before the due date/test time. The tests may be made-up only for significant reasons. Implicit in your registration for this course is your agreement to take the final exam at the time determined by the registrar's office.
2. You may discuss the homework assignments with other students, but you must write-up and turn in your own work. Copying another student's homework is not permitted. Write your homework neatly and legibly.

3. Academic dishonesty will not be tolerated.
4. There will be no need to use a graphing calculator. Use of calculators on the tests is not permitted.
5. Be sure your e-mail address in the UTDirect system is up to date, so that I can communicate information to the class via e-mail.
6. The University of Texas provides upon request appropriate academic accommodations for qualified students with disabilities. For more information, contact the office of the Dean of Students at 471-6259 or 471-4641.

Encouragement: The topics we will cover are very useful and fundamental in the sciences, business and engineering, among other fields, and I want you all to succeed. However, success in the course will require your diligence and hard work. Be sure to keep up with the assignments and to attend class. Talk to me as soon as you are having problems - don't wait until the week of a test. In addition to learning quantitative skills, it is important that you develop learning skills and study habits that will help you in calculus, in other courses, and in life beyond UT.