

Calculus, Techniques and Applications - Spring 2012
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Office: Robinson 229D Enter the Mathematics Department using the door
opposite the elevator
Office Hours: M, W 11 - 1, T, R 2 -3, and by appointment M - F

The purpose of this course is to introduce students to the techniques of differential and integral calculus. (**Calculus is the mathematical study of change.**) Emphasis will be placed on the use of functions, limits, differentiation, and integration to model real world problems, especially in business, economics and the social sciences. Theoretical, algebraic, numerical, graphical, and verbal avenues of exploration, analysis, and problem solution will be considered. We will cover the material found in the first six chapters of the text.

Requirements and Prerequisites: A course in **advanced algebra**, “**College Algebra**”, or **Pre-calculus**. Familiarity with a **graphing calculator**. It will be necessary that you **read the text**. Questions on the tests will assume this. **Every student will need to have a TI83, TI83+, TI-84, or equivalent graphing calculator. You will need such a calculator to complete some homework assignments and to answer some test questions. IT IS ESSENTIAL THAT YOU HAVE ONE AND ALREADY KNOW HOW TO USE IT.**

Text: *Applied Calculus for the Managerial, Life, and Social Sciences*, 9th Edition, by S. T. Tan. Brooks-Cole -Thomson 2009 ISBN-13 978-0-495-38900-2

Note: The chapters of this text that we will be using are 1-6.

Tentative Grading:

Homework, to be collected at exam times: 10%.

QUIZZES: 20%

TEST ONE: 20%

TEST TWO: 20%

TEST THREE: 25%

Attendance and class participation: 5%

ATTENDANCE POLICY: The university attendance policy, which can be found in the schedule of courses or via the university website, will be strictly enforced. Your attendance is expected at every class. You are responsible for everything that is done or announced in every class. Every absence should be documented by an e-mail message or voice mail message. Opportunity for make-up exams may or may not be granted, depending on the reasons. Make-up exams may be considerably harder, and may be only scheduled at the end of the semester, depending on reasons.

ALSO: Every student will be expected to come to each class **PREPARED.**

