



## *MAT 213 Brief Calculus Fall 2008*

**Section :** 30718

**Where:** MW CM466, 5:25-7:05pm

**Instructor:** Dr. Phil Clark

**Office:** CM428

**Phone:** (480) 425-6753

**Office Hours:** MW 7-8, TTh 3:30-5 and by appt

**E-Mail:** [phil.clark@sccmail.maricopa.edu](mailto:phil.clark@sccmail.maricopa.edu)

**Web Page:** <http://www.sc.maricopa.edu/clark/>

**Textbooks:** *Calculus Concepts*, Fourth Edition by Latorre, Kenelly, Reed, Carpenter, Harris, Biggers Houghton Mifflin, 2008. ISBN: 0-618-78981-2

**Prerequisite:** A grade of 'C' or better in MAT 15X, MAT 187 or the equivalent.

### **Course Competencies:**

1. Find derivatives of functions using both the definition and theorems.
  2. Use the derivative to solve and analyze application problems related to business, life, and the social sciences.
  3. Use technology to model, solve, and analyze problems related to real-world applications.
  4. Find the integral of functions using theorems.
  5. Use the integral to solve and analyze application problems related to business, life, and the social sciences.
1. Find derivatives of functions using both the definition and theorems.
  2. Use the derivative to solve and analyze application problems related to business, life, and the social sciences.
  3. Use technology to model, solve, and analyze problems related to real-world applications.
  4. Find the integral of functions using theorems.

**Homework:** Homework problems will be assigned for each section we cover. You are expected to complete each problem by the given due date. There will be homework quizzes given each class which will be taken directly from the homework. You will be allowed to use your homework to complete the quiz so it is to your benefit to have the problems completed on time. Additional homework problems may be assigned and collected during the semester.

**Graphing Calculator:** A graphing calculator is required for this course. The suggested calculators include the TI-83 or TI-83 plus and the TI-84. NOTE: Calculators with QWERTY keyboards or those which do symbolic algebra such as the TI-92s, TI-89s, Casio FX2 or 9970G's cannot be used in class or during an exam. You are responsible for knowing how your calculator works! There are also calculator handouts etc on my website.

<b>Point Distribution</b>	
Homework	25%
Exam 1	20%
Exam 2	20%
Exam 2.5	10%
Project	5%
Final Exam	20%

**Grading Scale:**

- A (90% and above)
- B (80%–89.99%)
- C (70%–79.99%)
- D (60%–69.99%)
- E (below 60%) .

**Attendance:** Attendance will not be required but success in class has been shown to have a direct link with showing up. If attendance slips I will notice so please come to class.

**Makeup Tests and Quizzes:** Will be given at the discretion of the instructor and only in the case of verified medical or other emergency. The instructor must be notified before the exam is given. Email or call

**Honor Policy:** The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the College or other sanctions. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism or facilitating such activities.

**Math/Science Center:** The Math/Science Center is available for all levels of mathematics. Students can working individually or in groups and receive help when needed. Location: CM 441A (northeast corner of the CM building)

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**Hours:** Monday - Thursday 8:00 AM - 7:30 PM; Friday 8:00 AM - 2:00 PM; Saturday 10:00 AM - 2:00 PM

**Unrestricted Withdrawal Deadline (no signature):** Fri., Oct. 3<sup>rd</sup>

**Restricted Withdrawal Deadline (signature required):** Mon., Dec. 1<sup>st</sup>

**Positive Learning Environment:** Commitment between students and teacher. Details on the website.

**Disability Resources:** Students with disabilities who believe that they may need accommodations in this class are encouraged to contact Disability Resources & Services office, Building SC-144, 480-423-6517.

**Disclaimer:** The instructor reserves the right to modify this syllabus to better meet the needs of the class.