MA131-004: Calculus for Life and Management Sciences A

Spring 2013 Syllabus

**Textbook:** *Calculus and its Applications* by Goldstein, Lay, Schneider, Asmar

**Supplement:** MA131 Supplement

**Classroom:** SAS 2102, Tuesday and Thursday 6:40 PM - 8:30 PM

**Instructor:** Will Cousins

**E-mail:** wcousin@ncsu.edu

**Office:** Language and Computer Labs Building 208

**Office Hours:** Monday 2 PM – 3 PM, Wednesday 3 PM – 4 PM

**Course Overview:** This course will cover the two main aspects of calculus: (1) rates of change (derivatives) and (2) areas under curves (integrals). We will cover ways to compute derivatives and integrals of a variety of functions (power rule, exponential/logarithmic functions), as well as using derivatives for optimization and graphing. We also cover applications of these concepts in the life, management, and social sciences.

**Prerequisite:** C- or better in MA 107 or MA 111, or 520 or better on the SAT Subject Test in Mathematics Level 2 or the NCSU Math Skills Test, or 2 or better on an AP Calculus exam.

**Grades:**

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| --- | --- |
| Tests | 50% |
| Quizzes | 10% |
| Homework | 15% |
| Final Exam | 25% |

Your overall percentage score will be converted to a letter grade using the following scale:

A+ 97-100 B+ 87-89 C+ 77-79 D+ 67-69 F 0-59

A 93-96 B 83-86 C 73-76 D 63-66

A- 90-92 B- 80-82 C- 70-72 D- 60-62

**Tests:** There will be 4 tests given in class on the following dates:

1. January 29th
2. February 21st
3. March 26th
4. April 18th

If you cannot take an exam on the scheduled date and time, *you are required notify the instructor at least one week in advance.*

**Quizzes:** Four quizzes will be given in class on the following days:

1. January 17th
2. February 12th
3. March 14th
4. April 9th

The lowest quiz score will be dropped. There will be *no makeup quizzes for any reason.*

**Homework:** There will be 10-14 homework assignments over the course of the semester. Each assignment will consist of a handful of math problems. To receive credit, write up solutions to these problems and hand them in during class. *No late homework will be accepted*. Assignments will be graded for completion (not accuracy). Your 3 lowest scores will be dropped. It is OK to get help from classmates but each student must turn in their own work.

**Final Exam:** A comprehensive final exam will be given on *Thursday, May 2nd from 6 PM – 9 PM.* You are required to take the final at the scheduled time. No finals will be given early or late. Every student must take the final.

**Attendance:** Attendance will be taken during each class. There is no penalty for excessive absences; however, students with less than four (0-3) absences will have their lowest test score dropped.

**Calculators:** No calculators or other electronic device will be allowed for quizzes, tests, or the final exam. Calculators may be used for homework assignments.

**Accommodations for Students with Disabilities:** Accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, student must register with the Disability Services Office (<http://www.ncsu.edu/dso>) located at 1900 Student Health Center, Campus Box 7509, 919-515-7653. For more information on NC State's policy on working with students with disabilities, please see the Academic Accommodations for Students with Disabilities Regulation at <http://policies.ncsu.edu/regulation/reg-02-20-01>

**Academic Integrity:** Your signature on any quiz or exam affirms your compliance with the honor pledge and the NC State Code of Student Conduct Policy.