

MA 131-001

Calculus for Life and Management Sciences A

MWF 8:30 - 9:20 AM 2225 SAS Hall

Instructor: Suzanne Crifo

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Office Hours: Wednesday and Friday 9:30 - 10:30 AM

Course Description: 3 credit hours. Topics covered: First order finite difference models; derivatives - limits, power rule, graphing, and optimization; exponential and logarithmic functions - growth and decay models; integrals - computation, area, total change; applications in life, management, and social sciences.

Learning Objectives: MA 131 will provide instruction and guidance to improve and refine mathematical problem-solving abilities and develop logical reasoning skills. Upon completion of this course, students should be comfortable applying the concepts and techniques listed above.

Prerequisite(s): 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. Credit is not allowed for both MA 131 and MA 121 or MA 141.

Required Texts: *Calculus and its Applications* by Goldstein, Lay, Schneider and Asmar (11th, 12th or 13th ed.) (**Free download** through WebAssign): MA 131 Supplement

Course Materials: In addition to obtaining the textbook, each student will need to submit 6 blue books (two are for the final exam) to me before the first test. **Do not write anything in or on the blue books.** Students who fail to submit 6 blue books will lose two points on a test for each missing book. **Calculators** will be permitted on exams with the exception of TI-83, TI-84, TI-89, TI-92 or any other calculator capable of graphing or doing symbolic mathematics.

Attendance In accordance with university policy, attendance is mandatory and will be recorded daily. An absence includes: missing at least one half of the lecture, sleeping, doing work for another class or using an electronic device such as a laptop or cell phone. Students with **4 or fewer** absences (excused or unexcused) will have their lowest test grade dropped.

Course Grade: According to NCSU policies, we will use the following grading system:

Grading Scale

97-100	A+	93-96.99	A	90-92.99	A-
87-89.99	B+	83-86.99	B	80-82.99	B-
77-79.99	C+	73-76.99	C	70-72.99	C-
67-69.99	D+	63-66.99	D	60-62.99	D-

- **Homework (15%)** WebAssign homework assignments are obtained, submitted, and graded online at <http://www.webassign.net/ncsu/>. With the exception of assignments at the beginning and end of the course, WebAssign is due at **11pm** on the night before the corresponding exam. WebAssign composes a large portion of your final grade and no make-up work is available for missed assignments. While assignments are not due until the night before an exam, I **highly** recommend you start work on homework as soon as we cover the material in class. I also recommend that you print each assignment and work it with pencil and paper before submitting; you will be required to show all work on exams, and homework is great practice.
- There will be four in-class **exams (60%)**. The dates for these exams are **September 9, October 3, October 28, and November 21**. Each exam will be worth 15% of your final grade. You will be given a short review to assist in preparation for the exam. Regrade requests will be considered only for the week following the return of an exam.
- The **final exam (25%)** will be on **Monday, December 12 at 8:00 AM** in the usual classroom. It will be cumulative. More information will be provided closer to the exam date.

Course Policies: The use of laptops, cell phones and other electronic devices is **not** permitted during class unless prior approval is given by the instructor. If a student misses a class session, it is the student's responsibility to get notes from a classmate or refer to the available online resources.

Make up exams will be granted on an individual basis, depending on the circumstance. I will ask for supporting documentation to excuse the absence, such as a doctor's note. The make up exam will be scheduled for a time that is convenient for the instructor, not necessarily the student.

Additional Resources:

- Free tutoring is available through the department Multi Media Center on a drop-in basis. For more information, see <https://www.math.ncsu.edu/mmc/tutoring.php>
- The course Moodle page <https://moodle-courses1617.wolfware.ncsu.edu/course/view.php?id=2822> will be kept up to date and may have helpful resources throughout the semester.

Academic Integrity: Students are required to comply with the university policy on academic integrity found in the Code of Student Conduct found at <http://policies.ncsu.edu/policy/pol-11-35-01>

Accommodations for Disabilities: Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with the Disability Services Office at Suite 2221, 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 (REG02.20.01)

Non-Discrimination Policy: NC State University provides equality of opportunity in education and employment for all students and employees. Accordingly, NC State affirms its commitment to maintain a work environment for all employees and an academic environment for all students that is free from all forms of discrimination. Discrimination based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation is a violation of state and federal law and/or NC State University policy and will not be tolerated. Harassment of any person (either in the form of quid pro quo or creation of a hostile environment) based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation also is a violation of state and federal law and/or NC State University policy and will not be tolerated. Retaliation against any person who complains about discrimination is also prohibited. NC State's policies and regulations covering discrimination, harassment, and retaliation may be accessed at <http://policies.ncsu.edu/policy/pol-04-25-05> or http://www.ncsu.edu/equal_op/. Any person who feels that he or she has been the subject of prohibited discrimination, harassment, or retaliation should contact the Office for Equal Opportunity (OEO) at 919-515-3148.