Class MW 1:30-2:45p
Prerequisites: Grade of C or higher in Math 1220 (College Algebra) or Math 1240 (Pre-Calculus), or minimum ACCUPLACER score of 249 (A\&F) or Math ACT score of $26+$ or math SAT score of $600+$.

Instructor's available (email or Zoom) Hours MW 2:45-3:15p, 5:15-5:45p; T 4:15-5:45p; Th 11:45a-12:15p, 1:15-1:45p, 4:15-
$5: 45$ p, and by appointment.
wcmurray@unm.edu 505-925-8727
MECS Division Chair: Dr. Ariel Ramirez, The Learning Center (in the Library building) 505-925-8912
Required Items:
Text: Calculus with Applications, $11^{\text {th }}$ ed., by Lial, Greenwell, Ritchey
Scientific Calculator ("Scientific" means it has powers-of-ten notation capability, and trig functions). If it has Graphing capability, that will be useful on occasion. (An Online calculator is Not recommended, because cell-phones and internet access are Not allowed on tests.)

Student Learning Goals \& Objectives: Acquire the ability to
-Find the limit, as a variable approaches a specific value, of functions.
-Distinguish between, and calculate, average and instantaneous rates of change.
-Interpret the Derivative as the limit of rate-of-change.
-Find the derivative of an assortment of function types: variables raised to powers, polynomials, products and quotients of functions, composite functions, exponential and logarithmic functions.
-Use the derivative as a tool to determine function behavior.
-Use the derivative as a tool for finding function extrema.
-Use the limit and derivative as tools for solving applied problems.
-Solve problems involving rates of change of two variables (Related Rate problems.)
-Find the Antiderivatives of functions.
-Use antiderivatives to evaluate Integrals (via the Fundamental Theorem of Calculus.)
-Use antiderivatives/integration for finding the area between a graphed and an axis, and also between two graphed curves.
-Use antiderivative and integration techniques to solve applied problems.
Policies and Notices:

COVID: You must have satisfied the UNM Mandate regarding required vaccinations. If you experience symptoms, do not come to class-email me, and I will work with you to keep up with the class. If you test positive for Covid, remain home for five days-again, I will help you via email to stay up with the class.
*After four accumulated absences, the student may be dropped by the instructor without further notice.
*Missed tests: If a test is missed, the score for that test will be zero, and that will be the one score dropped at semester's end. Note that a missed test disqualifies the student from receiving an A or A+ in the course, regardless of overall points earned.
*Late homework. Credit may be reduced by $50 \%$ if one day late; minus $100 \%$ if two or more days late. Homework due dates are indicated on the schedule accompanying this syllabus. (Extensions may be granted if late turn-in is due to emergency, and Instructor has been notified.)
*Persistent disruptive behavior, such as loud talking, ridiculing or intimidating the instructor or other students, or other forms of distraction, will result in the offender being dismissed and dropped from the class.
*Reporting Sexual Misconduct: Any report of sexual misconduct or gender discrimination made to a UNM faculty member must be reported to the Office of Equal Opportunity and the Title IX Coordinator (acatena@unm.edu, 505-277-5251). For more information on UNM policy re sexual misconduct see https://policy.unm.edu/university-policies/2000/2740.html

Homework Format: Homework problems should be clearly separated, either by whitespace (that means more space between main problems than within the problem), or by a separation line between main probs (not between subprobs $\mathrm{a}, \mathrm{b}, \mathrm{c} .$. ). Turn homework in by day-not by section. That is, if sec 3.1 and 3.2 are presented on the same day, 3.1 and 3.2 should be grouped together. Only one turn-in is allowed, $2^{\text {nd }}$, partial submissions will not be scored.

Also, please make the main prob \# extra BIG $5,11,21, \ldots($ not the $a, b, c \ldots)$. This is to help make the separation between main problems really obvious, so the instructor can find and check the main problems fast.

A Formula/Equation sheet will be provided before each test. Only minor notations on the sheet are allowed. No example problems are permitted on the formula sheet.

Tutoring: Free. https://valencia.unm.edu/campus-resources/the-learning-center/learning-center.html for hours; https://esurvey.unm.edu/opinio/s?s=131505 to request an appointment. Or, you can just go over there and tell them you're interested in working with a tutor. The tutors like doing it, plus they learn math while working with you.
*Final Exam Minimum Grade is $\mathbf{7 0 \%}$ in order to receive above a "D", regardless of other test or homework scores.

| Grading: |  | Maximum points |
| :---: | :---: | :---: |
| Homework |  | 100 |
| 4 tests |  | 400 |
| Drop lowest on | sts or homework: | -100 |
| Final exam (no | ped) | 150 (min 105 (70\%) to receive higher than a "D".) 550 Max poss course total |
| ( " x " = student' | accumulated poin |  |
| $536 \leq \mathrm{x} \leq 550$ | A+ (unless a | homework score is less than 50\%). |
| $509 \leq x<536$ | A (unless a | homework score is less than 50\%) |
| $495 \leq x<509$ | A- |  |
| $481 \leq \mathrm{x}<495$ | B+ |  |
| $454 \leq \mathrm{x}<481$ | B |  |
| $440 \leq \mathrm{x}<454$ | B- |  |
| $426 \leq x<440$ | C+ |  |
| $399 \leq x<426$ | C |  |
| $385 \leq x<399$ | C- *Note: a C- m | rereq for some courses or requirements of some programs |
| $330 \leq x<385$ | D |  |
| $\mathrm{x}<330$ | F |  |

No "Incomplete" (I) grades will be given.

