

## Calculus I/Math 1512 Syllabus

UNM-Valencia Campus

Spring 2023 meets MW 3:30-5:15p

Instructor: Clifton Murray, office A126A, Hours MW 1:30-3:15p, TTH 4:15-5:15p, also Th 11:45a-12:15p and by appointment.  
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*Prerequisites:* C or higher in Trigonometry (Math 1230) and Precalculus (Math 1240).

### *Required Materials:*

Text: Calculus 11<sup>th</sup> ed. by Larson and Edwards—big, expensive, but good all the way thru Calc III at UNM-Valencia.

Calculator: A scientific calculator will be useful on homework, in class, and on tests. But Note that, except for arithmetic, all calculations must be shown on paper; merely writing answers off a calculator will receive zero credit. Cellphone calculators not allowed on tests.

*Student Learning Objectives:* By the end of the course, the student should be able to explain and solve problems involving at least the following: (1)Limits; (2)the Derivative; (3)the derivative considered as a rate of change; (4)finding local extrema of functions and (5)optimization problems; (6)anti-derivatives ("integrals"); (7)differential equations solvable by integration; (8)estimating changes with differentials; (9)estimation with finite sums; (10)the fundamental theorem of calculus; (11)definite integrals; (12)finding the area between two curves;(13) finding the volumes and surface areas of solids of revolution.

*Credit Hour Statement:* This is a four credit-hour course. Class meets for two 105-minute sessions of direct instruction for fifteen weeks during the Fall 2023 semester. Please plan for a minimum of eight hours of out-of-class problem-solving homework and study each week.

*Academic Dishonesty*, as defined in the UNM-VC catalog, includes copying work from other students, or using a calculator to do calculations that should be worked out on paper. Anyone doing this on tests is subject to disciplinary action, ranging from “a reduced or failing grade for the work in question and/or the course” to “dismissal from the University”.

*Disruptive Behavior* is any behavior which interferes with other students’ learning &/or with the instructor’s ability to guide that learning. Examples include repeated loud talking/ laughing/chatting with your buddy which require repeated warnings from the instructor, or derisive/ridiculing comments toward other students or the instructor (the quickest way to get expelled from the class). Just keep your motives constructive, and it’ll be a good educational experience.

*Title IX* In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered “responsible employees.” This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/university-policies/2000/2740.html>

*Cell phones and similar devices:* No use of cell or smart-phones during tests; if a student temporarily leaves class during a test, she/he must leave phone with instructor.

*Children in Class:* Children are not permitted in class due to liability concerns.

*Accommodations:* UNM is committed to providing equitable access to learning opportunities for students with documented disabilities. As your instructor, it is my objective to facilitate an inclusive classroom setting, in which students have full access and opportunity to participate. To engage in a confidential conversation about the process for requesting reasonable accommodations for this class, contact me via my email or during office hours and/or Student Services here on campus..

*Covid COVID-19 Health and Awareness.* UNM is a mask friendly, but not a mask required, community. To be registered or employed at UNM, Students, faculty, and staff must all meet UNM's Administrative Mandate on Required COVID-19 vaccination. If you are experiencing COVID-19 symptoms, please do not come to class. If you have a positive COVID-19 test, please stay home for five days and isolate yourself from others, per the Centers for Disease Control (CDC) guidelines. If you do need to stay home, please communicate with me at the email or phone number above; I can work with you to provide alternatives for course participation and completion. UNM faculty and staff know that these are challenging times. Please let me, an advisor, or another UNM staff member know that you need support so that we can connect you to the right resources. Please be aware that UNM will publish information on websites and email about any changes to our public health status and community response.

*Homework Format:* 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, stapled—not separate. Also, please make the **main** prob # extra BIG—I mean, Muchisimo

Grande: **5,23,57** for example. This will help the instructor find and check off the main problems Fast. Finally, some homework problems pertain to either a geometric figure, curve, or a physical situation. For such problems, a simple **sketch** is expected.

Each homework assignment is due the next class day. Homework turned in one class day late will be reduced to a max score of 50%; two or more days late will receive zero credit. If an incomplete assignment is turned in, that will be the only scoring of that assignment; no further credit will be given for remaining work for that assignment.

A *Formula Sheet* will be provided for each test. Minor notes, such as the title of a formula, or what a quantity signifies, are allowed. But partially or fully worked-out examples are Not permitted. Any student caught with such will have her or his formula sheet confiscated and be subject to a reduced grade or other disciplinary action.

*Attendance:* If a student does not appear the 1st two days of class, the instructor may drop that student. Otherwise, after 4 accumulated unexcused absences, the student may be dropped from the course without further notice.

*Makeup Work:* Tests: There are no makeup tests, except in verified emergencies. (An early test, if it can be arranged, typically is not penalized)

Late Homework: 1 day late, minus 50%. 2 days late, zero credit.

**Final Exam Minimum: 70%. Less will result in an automatic course grade of D or lower**, regardless of other test or homework scores.

<i>Grading</i>	Max possible points
Homework	100
4 tests	400
Drop lowest one of tests or homework:	-100
Final Exam* (not dropped, comprehensive)	<u>150</u> *Again: <i>You must make 70% min, for course grade &gt; D.</i>
	550 Max poss course total

Let total course score = x:

$532 \leq x \leq 550$	A+ (unless a test is missed or hmwk score < 50%)
$512 \leq x < 532$	A (unless a test is missed)
$495 \leq x < 512$	A-
$477 \leq x < 495$	B+
$457 \leq x < 477$	B
$440 \leq x < 457$	B-
$422 \leq x < 440$	C+
$402 \leq x < 422$	C
$385 \leq x < 402$	C- *Note that a C- is not a C, and may not meet requirements for some courses or programs of study.
$330 \leq x < 385$	D
$0 \leq x < 330$	F

No “Incomplete” (I) grades will be given.