

## Calculus I/Math 1512 Syllabus

UNM-Valencia Campus

Fall 2021 meets MW 3:30-5:15pm

Instructor: Clifton Murray ("Mr.", "Professor", "Dr."), office A126A, Hours MW 2:45-3:15p, 5:15-5:30p; T 4:15-5:30p; Th 11:45a-12:15p, 1:15-2:45p, 4:15-5:30p.  
wcmurray@unm.edu, 505-925-8727

*Prerequisites:* C or better in both Precalculus (Math 150) and Trigonometry (Math 123).

### *Required Materials:*

Text: **Calculus, 11e, by Larson and Edwards**—big, expensive, but good all the way thru Calc III at UNM-Valencia.

Calculator: A scientific graphing calculator will be useful on homework, in class, and on tests. (Cellphone calculators not permitted 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 volume of solids of revolution; (14) finding the length of an arc; (15) Finding the surface area of a solid.

*Academic Dishonesty*, as defined in the UNM-VC catalog, includes copying work from other students. 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.

Any *sexual misconduct* or gender discrimination brought to a faculty members' attention must, per UNM policy, be reported to the Office of Equal Opportunity and the Title IX Coordinator. For information re what comprises sexual misconduct, see <https://policy.unm.edu/university-policies/2000/2740.html>. The Title IX coordinator is [acatena@unm.edu](mailto:acatena@unm.edu), 505-277-5251.

*Cell phones and similar devices:* OFF at all times in the classroom. No text messaging while class is in session. 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:* Sorry, but children are not permitted in class due to liability concerns.

*Disabilities:* Should you have a disability requiring special accommodation, please bring the instructor appropriate documentation from Equal Access Services—Search for UNM-Valencia Equal Access Services, click FAQ's, click "How do I apply for services?", fill out the application, and then call 505-925-8560.

*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 a, b, 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—stapled—not separate.

Also, please make the **main** prob #--**5, 11, 21**, ...etc (**not** a,b,c extra **BIG**). This is to help make the separation between main problems obvious, so the instructor can find and check off the main problems fast. Finally, some homework problems pertain to a geometric figure, curve, or a physical situation. For such problems, a **sketch** is required.

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 will be subject to disciplinary action.

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

*Makeup Work:* Tests: There are no makeup tests, except in verified emergency. (Early tests, on the other hand, might can be arranged without penalty.)

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.

Grading	Max possible points
Homework	100
4 tests	400
Drop lowest one of tests or homework:	-100
Final Exam* (not dropped, comprehensive)	$\frac{150}{550}$ *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 satisfy prereq or course requirements in some programs.
$330 \leq x < 385$	D
$0 \leq x < 330$	F

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

*If we have to go online*, we will continue following this calendar. Due dates for homework and tests will still apply, except when modified by the Instructor. You will be expected to have Video On, and dress the same as for a live in-person class.

Finally, a positive note: *Tutoring* is expected to be available in the STEM center, by students who have taken and done well in this course. Call 505-925-8515 for available hours.