

## Calculus I/Math 1512 Syllabus

UNM-Valencia Campus

Fall 2024 meets T Th 3:00-4:45pm

Instructor: Clifton Murray ("Mr.", "Professor", "Dr."), Office A126A, 505-925-8727. Hours In Person Thursdays 11:45a-12:15p, 1:15p-2:45p. Remote (via email) Wed 1:00p-4:00p, [wcmurray@unm.edu](mailto:wcmurray@unm.edu), and by appointment.

*Credit-hour statement:* This is a four credit-hour course. Class meets for two 105-minute sessions of direct instruction per week for fifteen weeks during the Fall 2024 semester. Please plan for a minimum of eight hours of out-of-class work (homework and study) each week.

*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 or off a computer or cellphone. 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 requires repeated warnings from the instructor, or derisive/ridiculing comments toward other students or the instructor (the quickest way to get expelled from the class). Be respectful of everyone in the classroom, and it'll be a good experience for all..

*Title IX:* The University of New Mexico and its faculty are committed to supporting our students and providing an environment that is free of bias, discrimination, and harassment. The University's programs and activities, including the classroom, should always provide a space of mutual respect, kindness, and support without fear of harassment, violence, or discrimination. Discrimination on the basis of sex includes discrimination on the basis of assigned sex at birth, sex characteristics, pregnancy and pregnancy related conditions, sexual orientation and gender identity. If you have encountered any form of discrimination on the basis of sex, including sexual harassment, sexual assault, stalking, domestic or dating violence, we encourage you to report this to the University. You can access the confidential resources available on campus at the LoboRESPECT Advocacy Center (<https://loborespect.unm.edu>), the Women's Resource Center (<https://women.unm.edu>), and the LGBTQ Resource Center (<https://lgbtqrc.unm.edu>). If you speak with an instructor (including a TA or a GA) regarding an incident connected to discrimination on the basis of sex, they must notify UNM's Title IX Coordinator that you shared an experience relating to Title IX, even if you ask the instructor not to disclose it. The Title IX Coordinator is available to assist you in understanding your options and in connecting you with all possible resources on and off campus. For more information on the campus policy regarding sexual misconduct and reporting, please see <https://policy.unm.edu/university-policies/2000/2740.html> and CEO's website. If you are pregnant or experiencing a pregnancy-related condition, you may contact UNM's Office of Compliance, Ethics, and Equal Opportunity at [ceo@unm.edu](mailto:ceo@unm.edu). The CEO staff will provide you with access to available resources and supportive measures and assist you in understanding your rights.

*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:* Sorry, but children are not permitted in class due to liability concerns.

*Accommodations:* Should you have a disability requiring special accommodation, please bring the instructor appropriate documentation from Accessibility Services. You can do an online search for UNM-Valencia Accessibility Services, and/or email Sarah Clawson at [sjclawson@unm.edu](mailto:sjclawson@unm.edu), and/or call 505-925-8540.

*Math Department Chair* is Dr. Ariel Ramirez. You may contact him at [aramirez8@unm.edu](mailto:aramirez8@unm.edu), or 505-925-8500. His office is in the Learning Center (aka Learning Commons) are of the library-bookstore building.

*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. For example, if sec 3.1 and 3.2 are presented on the same day, 3.1 and 3.2 homeworks should be grouped together (stapled), Not separated.

Also, please make the **main** prob # extra **BIG--5, 11, 21**, ...etc (do **not** make parts 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** problem numbers fast. Finally, some homework problems pertain to a geometric figure, curve, or a physical situation. For such problems, a **sketch** is **required**. See the instructor's solutions for examples of how homework should appear.

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 for that assignment; no further credit will be given for that assignment.

A *Formula Sheet* will be provided for each test. Minor notations, such as the title of a formula, or what a quantity signifies, are allowed. **But partially or fully worked-out examples are Not permitted on the formula sheet.** 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 individual from the course. 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 emergencies. If you have an emergency situation, including illness, that necessitates your missing class, let the Profesor know as soon as possible by email. If you know you must be absent before a test, let me know asap, we might can arrange an early test 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.

<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 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.

Finally, a positive note: *Tutoring* may be available in the Learning Commons (in Library bldg.), by students who have taken and done well in this course. [tutor@unm.edu](mailto:tutor@unm.edu), or Shalaine Castillo, [sbuck07@unm.edu](mailto:sbuck07@unm.edu).