Calculus I/Math 162 SyllabusUNM-Valencia CampusFall 2019 meets MW 4:30-6:15pInstructor:Clifton Murray, officeA126AHours MW 2:45-3:45p, T 4:15-5:15p, Th,11:45a-12:15p, 1:15-2:45p, 4:15-5:15p.wcmurray@unm.edu,505-925-8727

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

Required Materials:

Text: <u>Thomas' Calculus</u> 14th ed. by Weir & Hass—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. Cellphone calculators are **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

Academic Dishonesty, as defined in the UNM-Valencia 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

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--Jeanne Lujan, coordinator, 505-925-8910, <u>jmlujan@unm.edu</u>

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, put the **main** prob #--5, 11, 21,...etc (**not** a,b,c...).—to the left of all other work. This is to help the instructor find and check the main problems fast. So, make the separation between main probs really clear.

Calc I Syllabus page 2 of 2

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 emergencies—in such cases, expect a maximum score of 80%. (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: 65%. 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)	<u>150</u> *Again: You must make 65% min, for course grade > D.
	550 Max poss course total

Let total course score = x:

$532 \le x \le 550$	A+ (unless a test is missed or hmwk score $< 50\%$)
$512 \le x < 532$	A (unless a test is missed or hmwk score $< 50\%$)
495 <u><</u> x < 512	A-
$477 \le x < 495$	B+
$457 \le x < 477$	В
$440 \le x < 457$	B-
$422 \le x < 440$	C+
$402 \le x < 422$	C
$385 \le x < 402$	C- *Note—a C- may not satisfy prereq for some courses, or requirements for some programs.
$330 \le x < 385$	D
$0 \leq x < 330$	F

CALCI MATH 162 STAPLE HAWK BY	DAY SPRIAGE 2019
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* 1, 4, 7, 9, 19	1, 11, 15, 19, 21, 23, 25, 27, 31, 43, 45 47.58 43
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28 JAN ZOLG ENFINITE LIMITS	30 JAN
±1,3,5,13,15,17,23,27,29,37,45,85	RVW
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11 FEB 3. 3 RULES TOFIND DERIUS FASTER	13FEB 3.4 DERIVAS RATE-OF-CHANGE
3.5 DERVS OF SUCHASUR +1	#3,13,15,25
18 FEB 3.7 Implicit DIFF"#1,5,19,32,44	20 FEB 3.8 CONTINE MADE ROLLES D
3.8 RELATIONS OF DERIV: RELATED RATE PROBS # 1,3,13	#25, 27, 33, 40
25 FGB	27 FGB
KVW	TEST # 2 DERIVATIVES
4 MAR 3.9 LINEARIZATION. DIFFERENTIALS.	6 MARY 1 HOW FIND EXTREMA OF FOR
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25 MARY. 6 SOLVE EQT NUMERICALLY # 1	27 MAR
3.9 DIFFERENTIALS REVISITED #38,44	KVW
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22 APR	24 APR
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IN W FOR FINAL	KVW FOR FINKL
6 MA~1	8 Mars FINAL EXAM 4-6p
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