Calculus I/Math 162 Syllabus
 UNM-Valencia Campus
 Spring 2018 meets MW 4:30-6:15p

 Instructor:
 Clifton Murray, office
 A126A , Hours MW 3:15-4:15p, T 4:15-5:30 p, Th,11:45a-12:30p, 1:15-2:45p, 4:15-5:45p.

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

Required Materials:

Text: Thomas' Calculus 14th ed. by Weir & Hass—big, expensive, but good all the way thru Calc III at UNM-VC. Calculator: A scientific graphing calculator is required, and will be useful on homework, in class, and 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-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

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.

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 either put the **main** prob #--5, 11, 21, ...etc (**not** a,b,c...).—to the left of all other work, **or** make it extra BIG. This is to also help make the separation between main problems really obvious, so the instructor can find and check off the main problems fast. Finally, some homework problems pertain to either a geometric figure, curve, or a physical situation. For these type problems, a simple **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 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.

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 $0 \le x \le 330$

Final Exam Minimum: 65%. Less will result in an automatic course grade of D or lower, regardless of other test or homework scores.

Grading Homework 4 tests Drop lowest one of tests Final Exam* (not droppe		Max possible points 100 400 -100	
		220 Man poss course total	
Let total course score = x:			
$532 \le x \le 550 \qquad A = 10$	 + (unless a test is missed or hmw 	/k score < 50%)	
$512 \le x < 532$ A	(unless a test is missed)		
$495 \le x < 512$ A-	-		
477 < x < 495 B+	+		
-457 < x < 477 B			
-440 < x < 457 B-	-		
$-422 \le x < 440$ C+	+		
$-402 \le x < 422$ C			
$385 \le x < 402$ C-	-		
$330 \le x < 385$ D			

CALCI/MARY 16 Z 4:30-6:15 + PUT XTRA	SPRINT 20X18 CLIFTEN MURURALLY SPRINT - 20X18 UNM-VALENCIA
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MONDAY (NOT O PROSS	WEDNESDAY WORK.
	17 Jan CH. SEC 2.1 SLUPE -> RATE of CHARGE
MARRIN LUTHER KING DAY TROMAS CONCULUS OF THE PORT OF	2.1 HMWK #1,4,7,9,19
22 SAN J. 7. LIMITS. HMWK # 1111619	ZYJAN Z Y ONG-SURED IN THE # 13 11 15
21, 23, 25, 27, 31, 43, 45, 47, 58, 63.	15, 23, 27, 31; \ ATTACH 2.4025 7000 7000
29 JAN 2.6 LIMITS THOWNAG IRFINITY.	2.5 CONTINUITY #1, 3,5, 13,17, 19, 31, 35
世1,3,5,13,15,17,23,27,29,37,45,85	REVIEW
5FEB SLOPES, TANGENT LINES, LIMITS.	3. 2 DERIV. OF A FUNCTION FIX) = OF
12 FEB 13.3 WAYS TO RIND DERIVATIVES FAST	#1, 3, 13, 27, 29, 37, 45, 47, 49 14FEB \$\alpha\$ 3.4 DERIV AS RATE-OF-CHANGE
出り、7、13、17、21、41a、41c	世3,13,15,25
3.5 DERWS OF TRICE FUNCTIONS #1,3,5,35	3.6 DERIV OF COMPOSITE FUS: CHAND RULE #1,3,9,17,25,85
IMPLICIT DIFFERENTIATION # 1,5,19,32,44	21 FEB 3.8 CONTW: MORE RELATED RATE PROSS \$ 25, 27, 33, 40
3.8 APPLICATION: RELATERATE REUBS # 1,3,13	
RVW	28 FEB
	TEST # Z PERIVATIVE
5 MAR 3.9 LIVEARITHUS DIFFERENTIALS	7 MAR 4.1 FINDING EXTREMA OF FOX)
= 1,17,29,35,37,41,45,47,49	#1,3,5,21,27,45,69 4.2 MEAN VALUE THEOREM #49,50
12 MAR	14MAR
SPRING	BREAK
19 MAR 4.3 Is F(x) INCREASING OR DECREASING?	4.5 OPTIMIZATION PROBS
4.4 CONCAVITY OF CURVES #1, 7,9	4.5 # 1, 2, 3, 7, 9, 13
ZLOMAR 4.6 SOLVING EQUATIONS BY NUMBRICA ESTIMATION	28 MARS
3.9 DIFFERENTIALS REVISITED #38, 44	RVW
TEST # 3 MAINLY EXTREMA PRUBA, DIFFE PRUBA	4 ARR 4.7 ANTIDERIVATIVES, SOLVINGE DIRFL GOVATIONS
GST # 3 DIFFE PRIBS	# 1, 3, 17, 19, 21, 35, 71, 83, 102, 106
9 APR 5.2 SIGNA NOTATION 11 MATH #1, 3,5,11,13,15,17	MAPR 5. 3 The RIGHAM SUM of The INTEGRAL
5.1 APPROXIMETE AREA UNDER CURVE W/ RECTARGIES #6	5.4 FUNDAMENTAL THEOREM OF (ALEXUS# 1,13,27,33,39,47,51.
16APR HOW TO FIND TUFFER ANTIDERIVE: U, EUSUBSTI	18 APR 5.6 CKANGING LIMITED WILL SUBSTIT
D.D = (,3,17), 19,21,25,29,56	FINDING AREA BETWEEN TWO CURVES. # 5,9, 12, 25, 27, 41, 43
RV W	25AP2
*	TEST # 4 INTEGRAL CALCULUS
30 APR	Z-MAY **
RVW FOR FINAL	RVW FOR FINAL
7 MAY	9 MAY FINAC EXAM 4:00-6:00P3