Math 1522 **Calculus II Syllabus** Fall 2019, meets Mon&Wed 4:30-6:20p Clifton Murray, UNM-VC *Prerequisite*: C or better in Calculus I/Math 1520

Office A126A, Hours MW 3:15-4:15p, T 4:15-5:30p, Th 11:45a-12:15p, 1:15-2:30p, 4:15-5:15p wcmurray@unm.edu, 505-925-8727

Required Materials: Textbook, <u>Thomas' Calculus</u>, 14th ed., by Weir & Hass. Scientific Graphing Calculator.

Student Learning Objectives (SLO's): By the end of the course, the student who earns a grade of B or better in the course should be able to, at a minimum, do the following: Find volumes of solids of revolution, calculate work due to a variable force, and find the fluid force against a submerged plate, all using integration; calculate derivatives and integrals of log, exponential, and inverse trig functions; perform integration by parts, by partial fractions, and by trig substitutions when needed; evaluate improper integrals; solve 1st order linear differential equations, both separable and non-separable; write the nth term of an infinite series; apply tests for series' convergence or divergence; perform Taylor-series expansions of simple power functions; interpret formulas for the conic sections; convert equations into parametric form; and convert between rectangular and polar coordinates.

Disabilities: If you have a documented physical disability which could interfere with learning in a standard classroom environment, please inform the instructor, so accommodations can be made.

Academic dishonesty as defined in the UNM-Valencia catalog includes copying work from other students. Any student found doing this on tests or the final exam is subject to disciplinary action, ranging from a reduced or failing grade for the work &/or the course, to dismissal from the University.

Persistent disruptive behavior which interferes with students' education—such as loud, distractive talking, insulting classmates or the instructor, or other repeated disruptive behavior-- will result in the offenders' being dropped from the course.

NO text messaging or phone calling is permitted in the classroom—Please turn phones OFF while in the classroom.

Any *sexual misconduct or gender discrimination* observed by or reported to a UNM Faculty member, TA, or GA must be reported to the UNM Office of Equal Opportunity and the Title IX Coordinator. For information regarding what constitutes sexual misconduct see https://policy.unm.edu/university-policies/2000/2740.html

Late and Missed Work: There are no makeup tests, except in verified emergencies—in such cases, expect a maximum score of 80%. Early tests, however, might can be arranged without penalty, depending on the reason. Homework: 1 day late, -50%. 2 days late, -100%.

After five accumulated absences, the student may be dropped from the class without further notice. If you know you have a conflict, such as work schedule, please see the instructor to determine whether an exception can be made.

Minimum Final Exam Score: If the score on the final exam is less than 65%, the student will receive a grade of D or less for the course, regardless of other test or homework scores.

Grading:

	Maxii	imum possible points
Homework		100
4 tests		400
Drop lowest one of t	tests or homework:	-100
Final exam (comprel	hensive, not dropped)	$\underline{150}$ ← (if < 97.5, course grade is D or below)
` •	, , ,	550 (max poss course total)
$532 \le x \le 550$	A+ (unless a test is missed, or home	nework score is less than 50%)
$512 \le x < 532$	A (unless a test is missed)	,
$495 \le x < 512$	A-	
$477 \le x < 495$	B+	
$457 \le x < 477$	В	
$440 \le x < 457$	В-	•
$422 \le x < 440$	C+	
$402 \le x < 422$	C	
$385 \le x < 402$	C-*	
$330 \le x < 385$	D	
$0 \le x < 330$	F	

^{*} Be aware that a C- may Not meet the requirements for your planned course(s) or degree. It is your responsibility to find out what grades are required for your future courses and/or academic progress.

^{**}The grade of Incomplete ("I") will not be given.

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POLLOWING CINSS. M CALCY TP	
PRACTICE IN CLASS. HMWK DUE MEXT CLASS.	21 AUCY Gol SOLIOS OF REVOLUTION: VOLUME BY 54)CES: 6.1 # 2,4,17,33
2608.1 #1,3,4,8,10,15,18,19,23,25,3234 26NOG G.2 SOCIPS OF REVOLUTION TO BY SHELLS: #1,7,15 6.3 MRC/LENGTH #2	28AUG 6.4 SOLIO OF REVOL: SWEERE AREA # 13 6.5 CALCULATE WORK BY VARYHO FORCE #3, 4,9,10 6.6 ROPS CENTER OF MASS: #1
LABOR DAY	4SEP FIND FORCE DUE TO FLUID STATIC PRESSURE 6.5 # 35, 36, 48, 42
9SEP RVW	THEORNE ! APPLICATIONS: PRESSURE-FORCE
16 SEP 7.2 CALCULUS WITH RAX #1,4,7,9,13,17,23,39,41,43,45,57	18 SEP 7.3 CALCULUS WITH CX #9, 11, 123, 23, 35, 5 39, 41, 43, 45, 57
23 SEP7.4 SEPARASLE DIFFL EQUATIONS #10, 10, 6, 11, 19 7.4 CONTING RPORENTIAL CHANGE # 34, 45	25 SEP 7.5 L'HOPITAL'S RULE #1,5,13,69. 7.6 THURRER #1,3,9,13,21,23, 47,51,55. TRIG FLASIN *BRING GRAPHER NEXT CLASS*
30 SEP 7.7 HYPERBOUL FUNCTIONS #1,5,6,13,41,51 7.8 WHICK FUNCTIONS GROW FASTER? #30, 36, 30, 50, 56, 50, 7	20CT RVW
7 OCT TEST # 2 CALCULUS WITH TRANSCEADENTAL FUNCTIONS	90078.2 How Stangerdx? Birts ! #1,5,41 8.3 STRIS #1,4,11,21
14 OCT 8.4 CERTAIN S CAN BEYPORE W/ TRIG SUBSTIT" # 1,5,9,15	16 OCT 8.7 NUMERICAL # 31, 311, 23, 25
8.5 HOW DO STED DX? PARTIALS! #1,7,11,21	8.8 IMPROPER INTEGRALS #1, 3, 7,9, 39, 43
21 Oct 9. 2 How solve 15000, CIA, DE?#1,5,17 APPLICATIONS: 9.2#26. 9.3#14.	RVW
TEST#3 "FECHNIQUES, SEP'BL! TEST#3 "FECHNIQUES, SEP'BL! IMPRIBERS.	30 Oct 10.1 SEQUENCES #1,3,7,13,16,31,37
4 MOV 10.2 CONTIN #9,34,37,53,54,55,56,59,81 10.3 STEST FOR INF. SERVICES CONVINCEDIV.	(0 NOVIDES RATIO TEST. # 1,17,19 10.6 ALTER, SERIES TEST # 2,9,15,17,23 10.7 Power Series: #3,6
10.10 APPLIC OF #15,29 HEXT CLASSESX	13NOVIII) PARAMETRIC CURVES #3,57, R9, BI SKETCH #510,520,53 * BRING GRAPHER 11,2#1(12 DERN 13 ENOUGH), #25 NEXTIMEX
18 NOV 11.3 POLAR COORDS #600,6,c,d,#11,13,15 27,33,55,57 11.5 AREA IN POLAR CIGORIO = #1	20,00 11.6 conic sections #9,17,27
KVW	1697 # POLAR COORDS. CONJESECTIONS.
ZDEC RVW FOR FINAL	4DEC RVW FOR FINAL
9 DEC TIMAL EXAM	11 DEC
4:30-6:30p	· k