

University of Colorado at Colorado Springs
Math 1120 Section 2
Calculus for Business and Economics
10:50 am – 12:05 pm
Monday and Wednesday
Room: Columbine 322

Instructor: Virginia Ramos

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Office hours: 9:15am to 10:30 am Monday/Wednesday between my classes at UCCS,
and also by appointment, for help with calculus, or come join me for a snack.

Textbook: *Calculus and Its Applications, Ninth Edition* by Bittinger/Ellenbogen

Grade: Homework (**no late homework will be accepted**) will count towards no more than 10% of the final grade. Homework is due on Monday for the sections covered the week before. The pre-test is worth 5%. Chapter tests will be worth 20% each, there will be three. A comprehensive final exam will be worth at least 25% of the final grade.

Make-up Tests: Unless arrangements have been made before a scheduled exam, no make-up exams will be allowed. The Disability Services Office is handling make-up exams and arrangements must be made through this office after I have agreed that a make-up exam is appropriate. Main Hall, Room 105, 719-262-3354, dservice@uccs.edu

If you have a disability for which you are requesting an accommodation, you are encouraged to contact Disability Services within the first week of classes. Contact information: Main Hall, Room 105, 719-262-3354, dservice@uccs.edu

*If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact your UCCS course instructor no later than the first week of class to discuss the class attendance policy. Please see the Military Students website for more information:
<http://www.uccs.edu/~military/>.*

Important Dates:

February 2 Drop the course and receive 100% tuition refund.
April 1 Last day to drop without special permission of the dean.

May 9, Monday 10:50 am – 12:05 pm Note the final exam is longer than the usual class time.

The other class I teach is pre-calculus, Engineering 109 M, W, &F 8 am to 9:15 am.

Math 112
 Calculus for Business and Economics
Calculus and Its Applications, 9th edition, Bittinger/ Ellenbogen
This schedule may change as needed.

	Algebra Review- polynomials, rationals, exponentials and logarithms Pg 11 # 2,4,10,18,22 Pg 24 # 20,22,36,39,55 Pg 36 # 2,7,15,28,35,43 Pg 51 # 9,12,22,28,33	January 19
	In class Pre-test on the Algebra Review- The quiz is meant to serve as a type of gateway. Students without the appropriate algebra skills should strongly consider dropping the course.	January 24
1.1	Limits- Numerically and Graphically Pg 110 # 11-18,45,49,55,61-63	January 26
1.2	Limits Algebraically Pg 121 # 9,12,17,21,28,33(uses the graph from#28),43,46,55	January 31
1.3-1.4	Average rates of change, derivative using limit definition Pg 130 # 2,7,13,29,31 Pg 145 # 3,6,12,17,25	February 2
1.5	Power, Sum, Difference Pg 156 # 3,8,13,19,28,37,48,55,59,65,84	February 7
1.6	Product, Quotient Rules, Applications Pg 165 # 2,5,10,13,18,23,37,41,97	February 9
1.7	Chain Rule Pg 174 # 1,2,7,12,14,22,33,45,48,53	February 14
1.8	Higher-Order Derivatives Pg 181 # 3,6,10,15,20,25,36,38	February 16
	Review	February 21
	Test 1- Chapters 1	February 23
2.1	Maximization and Minimization with 1 st derivative Pg 211 # 3,6,12,17,24,29,34	February 28
2.2	Maximization and Minimization with 2nd derivative Pg 228 # 3,8,11,16,35,43	March 2
2.4-2.5	Absolute Maximum and Minimum and Applications Pg 254 # 1,4,7,14,15,19,32 Pg 270 # 1,5,8,13,23,29	March 7
2.6	Differentials Pg 280 # 2,5,9,10,19	March 9
2.7	Implicit Differentiation and Related Rates Pg 288 # 1,4,7,12,17,20,23,31	March 14
3.1-3.2	Exponentials and Logarithms Pg 315 #2,5,11,16,27,30,37,46	March 16

	Pg 332 #3,6,9,14,35,38,43,48,49,55,69,73	
3.3-3.4	Applications- Growth and Decay Pg 347 #1,4,7,10,15,21,32 Pg 360 # 1,2,11,17,24	March 28
3.5	Derivatives of Exponentials and Logarithms Pg 368 # 3,10,15,18,23,27,30	March 30
	Review	April 4
	Test 2- Chapters 2 and 3	April 6
4.1-4.2	Areas under a curve Pg 398 # 1,2,4,7,23,26 Antidifferentiation, Areas, Integrals Pg 409 # 1,4,7,12,15,20,25,47,50	April 11
4.3	Area and Definite Integrals Pg 421 # 2,4,9,13,25,31,34,36,59	April 13
4.4	Properties of Definite Integrals Pg 433 # 2,5,7,13,17,24,35,40	April 18
4.5,4.7	U-substitution and tables Pg 442 # 1,6,13,16,19,27,33,43,48 Pg 456 # 1,4,9,12,17,20	April 20
6.1-6.2	Functions of Several Variables- Pg 545 # 1,3,6,8 Pg 554 # 1,4,6,9,14,19	April 25
	Review	April 27
	Test 3- Chapter 4 and Chapter 6 sections 1 & 2	May 2
6.3	Multivariate Optimization Pg 563 # 1,3,6,7,12,16	May 4
	Course Review	May 4
	Comprehensive Final Exam 10:50 am – 12:05 pm	May 9

A Supplemental Instruction (SI) component is provided for all students who want to improve their understanding of the material taught in this course. SI sessions are led by a student who has already mastered the course material and has been trained to facilitate group sessions where students can meet to compare class notes, review and discuss important concepts, develop strategies for studying, and prepare for exams. Attendance at SI sessions is free and voluntary. Students may attend as many times as they choose. SI sessions begin the second week of class and continue throughout the semester. A session schedule will be announced in class. For information about the program and session schedule/updates, visit: http://www.uccs.edu/~mlc/si_and_help.html.