

Syllabus—Math 1120—Sections 001 & 002—Fall 2011

Calculus for Business and Economics

Instructor: Dennis Duncan, dduncan@uccs.edu, ENGR 289;
Office Hrs: 9:30-10:45 AM, TR and by appointment.



Text: *Calculus and Its Applications*, 10th edition, Bittinger et al

Attendance:

Section 001, 12:15-1:30, TR, ENGR 109

Section 002, 10:50-12:05, TR, ENGR 101

Students may attend the other section whenever that is more convenient. I'll make an effort to keep the two sections in synch.

Tests: Initial plans are for 3 mid-term exams which will be weighed equally in calculating the test average. No makeup exams. No late exams. No exceptions except in the most dire of circumstances (e.g. car broke down, got the flu, friend got married...not dire).

Quizzes: Announced quizzes may become part of your test score. Unannounced quizzes are generally for your own edification and not for a grade.

Homework: Is due once a week. Normally on Tuesday unless there is a test on Thursday. Then the homework is due with the test. No late homework will be accepted. No exceptions.

Grading: Mid-Term Exams 60%, Comprehensive Final Exam 30%, Homework 10%
Homework is the average of all homework with the lowest 2 dropped. It is to be graded 50% on completion and 50% on correctness. (Correctness will be determined entirely by grading 4 unannounced problems.)

Important Dates:

8/23.....Our class begins

9/5-6.....Labor Day Holiday (no classes)

9/8.....Census Date...last day to withdraw from all or some classes with 100% refund

9/16.....Complete Withdrawal date for 80% refund

9/30.....Complete Withdrawal date for 60% refund (last withdrawal date)

10/28.....Last Day to drop w/o permission of the Dean...essentially your very last chance to withdraw (no refund, "W" for a grade)

11/23-27.Thanksgiving Holiday (no classes)

12/13.....Final Exam Sec 002 10:50-1:20 ENGR 101

12/15.....Final Exam Sec 001 10:50-1:20 ENGR 109

12/17.....Semester Ends

Tentative Outline of Course Topics*

SECTION IN TEXT	TOPICS	APPROX TIME
	Algebra Review- polynomials, rationals, exponentials and logarithms	3 days
	Quiz on Algebra Review - This quiz should be completed before the drop date. The quiz is meant to serve as a type of gateway. Students without the appropriate algebra skills should be advised to drop the course.	1 day
1.1	Limits- Numerically and Graphically	1 day
1.2	Limits Algebraically	1 day
1.3-1.4	Average rates of change, derivative using limit definition (spend most of time on 2.4)	1 day
1.5-1.6	Power, Sum, Difference, Product, Quotient Rules, Applications	2 days
1.7	Chain Rule	1 day
1.8	Higher-Order Derivatives	1 day
	Test 1- Chapters 1	1 day
2.1	Maximization and Minimization with 1 st derivative	1 day
2.2	Maximization and Minimization with 2nd derivative	1 day
2.4-2.5	Absolute Maximum and Minimum and Applications	1 day
2.6	Marginals and Differentials	1 day
2.7	Implicit Differentiation and Related Rates	1 day
3.1-3.2	Exponentials and Logarithms	1 day
3.3-3.4	Applications- Growth and Decay	1 day
3.5	Derivatives of Exponentials and Logarithms	1 day
	Test 2- Chapters 2 and 3	1 day
4.1-4.4	Antidifferentiation, Areas, Integrals	3 days
4.5,4.7	U-substitution and tables	1 day
6.1-6.2	Functions of Several Variables- Don't worry too much about the graphical side- the point is to get to the multivariate applications in 6.3	1 day
6.3	Multivariate Optimization	1 day
	Test 3- Chapters 4,6 (if necessary because of dead week, section 6.3 can be covered after this test and just tested on the final)	1 day
	Extra days for reviewing before tests, catching up, etc.	2 days
	Comprehensive Final Exam	1 day

* Details are tentative and subject to change by the instructor at any time. This information is included to help students understand the goals and pace of the class.