

MATH 105
Calculus for the Managerial and Life Sciences
Summer 2009

Course Content: This course will be an applied introduction to calculus in real-world contexts, with the intent of providing a sound, intuitive understanding of the basic concepts needed to pursue careers in business; economics; finance and investment; the life, health, and environmental sciences; the physical sciences; and the social sciences. We'll learn the techniques of differential and integral calculus without sacrificing mathematical accuracy, and view concepts intuitively and geometrically when possible. Specific topics include rates of change, the derivative, maximizing and minimizing functions, exponential and logarithmic functions, indefinite and definite integrals.

Instructor: Dr. Trent Kull

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Time and Location: June 8 - July 8, MTWR, Owens 201

Class Time: 10:30a - 12:30p

Office Hours: MTWR, 10 - 10:30a. Other times by appointment.

Textbook: The required text for this course is

Calculus for Business, Economics, and the Social and Life Sciences,

9th Edition, Laurence D. Hoffman, Gerald L. Bradley, 2007, ISBN: 978-0-07-327181-1.

Grading: Your course grade will be based on the following:

Event	Percentage
Quizzes	20%
Exam 1	20%
Exam 2	20%
Exam 3	20%
Final Exam	20%

To ensure that you receive a certain letter grade (or better), you must attain a minimum overall percentage. These minima are: A: 90; B: 80; C: 70; D: 60.

Homework/Quizzes: Expect homework assignments/quizzes to reinforce the lesson material and prepare you for exams. Expectations will be detailed during class, with some notes added to the course website.

Exams: These may be closed book, no notes, no computer, no cell phone, individual effort events.

Missed quiz/exam policy: I will not give make-up quizzes or exams for those missed. Instead, I'll use the following policy: For all quizzes and course exams, a missed event will result in a recorded zero score until the end of the course. At that time, the average score achieved on all other quizzes will replace a single missed quiz score, and the final exam score (percentage) will replace a single missed exam score. Note that all students must take the final exam for a grade. Moreover, once a student has been handed a quiz (exam), the event will be graded.

Students with Disabilities: Winthrop University is dedicated to providing access to education. If you have a disability and need classroom accommodations, please contact Gena Smith, Coordinator, Services for Students with Disabilities (SSWD), at 323-3290, as soon as possible. Once you have your Professor Notification Form, please tell me so that I am aware of your accommodations. If you require special testing consideration for a disability, contact the SSWD and bring me the appropriate paperwork in a timely fashion.

Calculators: The nature of the calculus lends itself well to the use of appropriate technology. Having a simple graphing calculator for use during the course is expected and encouraged. This will make completion of potential assignments less tedious in nature, reducing the time spent on computations and leaving more time for conceptual understanding. Although it's not necessary you purchase an appropriate calculator, you should make every attempt to have one available for your use during the semester.

Attendance: Due to the compressed nature of this course during the summer session, missing a single class can cause you to miss a great deal of material, and prove highly detrimental to your grade. While in class, please be courteous and attentive – no newspapers, cell phones, sleeping, etc.

Withdrawing, S/U Rescinding from the Course: Students withdrawing on or prior to June 24 will receive an "N" in the course. Students may not withdraw from

a course after this date without documented extenuating circumstances. June 24 is also the last day to rescind a Satisfactory/Unsatisfactory election for the course.

Course Calendar: The following is a tentative guideline, as I want to keep the flexibility to modify the pace and add or remove topics as appropriate. Exams do not share this flexibility – this will allow more effective planning by all.

Date	Chapter	Subject(s)
June 8	1	Limits
9	1	
10	2	Differentiation
11	2	
15	Review, Exam 1	
16	2	Differentiation
17	2	
18	2, 3	Differentiation, Applications
22	3	
23	Review, Exam 2	
24	3	
25	3, 4	Applications, Logarithms & Exponentials
29	4	
30	4, 5	Logarithms & Exponentials, Integration
July 1	Review, Exam 3	
2	5	Integration
6	5	
7	5	Integration, Review
8	Final Exam	(Cumulative)