

Section 001: MWF, 10:00 – 10:50 in Clark A101, Elizabeth Lane-Harvard, lane@math.colostate.edu

Office Hours: To be announced

Calculator: A graphing calculator such as the TI-83 or TI-84 is recommended and may be used on exams. Advanced calculators such as the TI-89 are not allowed on exams.

Textbook: Calculus and Its Applications (10th edition) by M. Bittenger and D. Ellenbogen

MathXL: Course announcements, online help, quizzes and OPTIONAL homework are available on MathXL. Quiz scores will be posted on MathXL.

Quizzes: Quizzes for this course are conducted online via MathXL at www.mathxl.com.

The MathXL quizzes will be due every Wednesday night at 11:59pm. Each quiz question is worth 1 point. Only the quiz with the highest score counts. At the end of the semester, the quiz points you have earned will be summed to get your quiz point total, which will then be scaled to 100 points.

Here are examples of how it works:

Suppose that your quiz point total is 120 and there are 125 assigned points. Your scaled quiz score would then be $100 \times (120/125) = 96$.

Bonus quizzes will be assigned. Suppose that your quiz point total is greater than 125 and there are 125 assigned points, then your scaled quiz score would be 100.

QUIZ SCORES WILL BE POSTED ON MathXL, NOT RAMCT.

Exams: The exams are multiple choice/scantron. There will be four exams for this course on the following dates

February 8 (in class, regular time and place)

March 7 (in class, regular time and place)

April 11 (in class, regular time and place)

May 8 (Common Final Exam, 2:00-4:00 pm, place TBA).

Students who arrive after 2:30 pm will not be permitted to take the final exam.

EXAM SCORES WILL BE POSTED ON RAMCT, not MathXL.

NO EARLY EXAMINATIONS WILL BE GIVEN.

NO LATE EXAMINATIONS WILL BE GIVEN EXCEPT IN THE CASE OF A DOCUMENTED EMERGENCY.

Schedule:

1. Introduction to course (R.4, 1.3 Rates of Change, Difference Quotient)
2. 1.1, 1.2 Limits and Continuity
3. 1.4 Difference Quotient
4. 1.5 Power Rule, Sum and Difference Rule
5. 1.7 Chain Rule

- 6. 1.6 Product Rule, Quotient Rule
- 7. 2.6 Marginals
- 8. 2.1 First Derivative Test for Local Extrema
- 9. 1.8, 2.2 Higher Order Derivatives, Second Derivative Test
- 10. 2.4 Absolute Extrema
- 11. 2.5 Optimization
- 12. 2.7 Implicit Differentiation and Related Rates
- 13. 3.1, 3.2 Exponential and Logarithmic Functions
- 14. 4.2 Anti-differentiation
- 15. 4.1, 4.3 Area and Definite Integrals
- 16. 3.3,3.4,5.2 Integration of the Growth Model
- 17. 5.1 Consumer's Surplus and Producer's Surplus

Grades: The course grade is based entirely on four one-hour exams and MathXL Quizzes. The exams are multiple choice/scantron. Exam scores will be posted on RAMCT. University policy dictates that instructors are not allowed, by law, to email grades or snail mail grades. Please do not ask us to do this.

For each student, the top three exam scores are doubled. For example, suppose your four exam scores have values A, B, C, and D. Also suppose that your scaled MathXL quiz score has the value E. If D denotes your lowest exam score, then your grade will be determined by the formula: $(2A+2B+2C+D+E)/8$. For example, let's say the exam scores are 63, 86, 52, and 100 and the scaled MathXL quiz score is 88. Note that 52 is the lowest exam score. Compute $2(63)+2(86)+1(52)+2(100)+88$ to get the total number of course points. You should get 638. Divide by 8. The final grade is 79.75, which is a B because we will round the final grade to the nearest percentage.

The grading scheme is traditional; no plus-minus grades are given:

A: 90 - 100, B: 80 - 89, C: 70 - 79, D: 60 - 69, F: 0 - 59.

Registering for MathXL: To register for MathXL you will need

- a MathXL student access code, packaged with your new text, standalone at your bookstore, or available for purchase with a major credit card at www.mathxl.com
- your school's zip code (80523)
- a valid email address
- the Course ID:

XL0U-E1DF-301Z-9A62 (if you are registered in Section 001, 10:00 – 10:50)

NOTE: In the course IDs above, zeros are used, not the letter O. The one exception is for the 11:00-11:50 section. It is E1EO, with O being a letter.

Tutoring:

Free tutoring is available for this course through the Arts & Sciences Tutoring Program. The program is located in the Russell George Great Hall in The Institute for Learning and Teaching (TILT), and runs 5 p.m. to 10 p.m., Sunday-Thursday evenings during the academic year. No appointment is necessary and all students are welcome. For more information and tutoring schedule, please visit:

<http://tilt.colostate.edu/learning/tutorialPrograms/artSciences.cfm>

