MATH 141 - Calculus for Management Sciences
Colorado State University
Fall 2017

COURSE INFORMATION SHEET

Catalog Description

Prerequisite: Math 118. Credit allowed for only one of the following courses: MATH 141, MATH 155, or MATH 160. Analytic geometry, limits, equilibrium of supply and demand, differentiation, integration, applications of the derivative, integral.

The formal syllabus for this course (including gtPathways-specific information) can be found at:

http://www.math.colostate.edu/syllabi/MATH141Syllabus.pdf

Sections

Section 001, 301   MWF 9:00-9:50am; Room: Plant Sciences C101
Section 002       MWF 10:00-10:50am; Room: Clark A101
Section 003, 303  MWF 4:00-4:50pm; Room: Plant Sciences 101

Instructor

Ramesh S. Narasimhan, Adjunct Instructor of Mathematics
email: rsn1975@colostate.edu or contact me through Canvas
Office Location: Weber 119

Office Hours

In-person office hours are held in Weber 119 on Mondays and Wednesdays from 11:15-12:45. In addition, there will be a weekly problem session held on Mondays from 5-6pm with a location TBA. On exam weeks, this session will be used to review for the exam. You can also make an appointment to see me if these times do not work for you.

Required Calculator

TI-83 or TI-84. Advanced calculators with algebraic capabilities, such as the TI-89, are not allowed on exams. You may buy either a new or used calculator and sell it back via the CSU Bookstore’s calculator buyback program.

Textbook

Calculus and Its Applications (11th edition) by Bittinger, Ellenbogen, and Surgent. The electronic version of this book is included in your MyMathLab inclusive access. Additional hard copies of this text will be placed on reserve at the Morgan Library as necessary.
**MyMathLab**

Online help, quizzes and OPTIONAL homework are available on MyMathLab by Pearson. Quiz scores will be posted on MyMathLab. We will be using a special MyMathLab inclusive access, and as indicated below, you will use your Canvas account and an electronic code that will be emailed to you by the bookstore. Students should not purchase a MyMathlab access code through Pearson or other outside sources.

**Quizzes**

Quizzes for this course are conducted online via MyMathLab at [http://www.mymathlab.com](http://www.mymathlab.com) (**You will access MyMathLab through Canvas***). The MyMathLab quizzes will generally be due on Mondays at 11:00pm. Your three lowest quiz scores will be dropped. All quizzes will be weighted equally, regardless of the number of questions in each quiz. You will have a maximum of 10 attempts for each quiz. Only the quiz with the highest score counts. Notice that any quizzes that you miss will be assigned a score of zero. Students can work on quizzes until the end of semester, but any work submitted after the formal deadline will be deducted 50% of the score.

Keep in mind that many people accessing a MyMathLab course at once often slows the system down considerably, so students should be sure to START THEIR QUIZZES EARLY.

**Registering for MyMathLab:**

- Students should initially sign up for the course by using Pearson’s 14 day free trial period access.
- A MyMathLab student access code will be emailed to you roughly two weeks into the semester, once the free 14 day trial period ends. The cost of this access code, $99, will be charged directly to your student account. If you already have an access code, YOU MUST OPT OUT of being automatically charged by contacting Kurt Kaiser at the bookstore. Be sure to check your student email address to find this code.
- You should use your Canvas login as the MyMathLab login.***

For questions about MyMathLab, you may contact Nick Reinhardt by e-mail at nick.reinhardt@pearson.com or technical support by phone at 844-292-7015.

**Exams**

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

- Wednesday, September 13th (in class, regular time and place)
- Wednesday, October 11th (in class, regular time and place)
- Wednesday, November 8th (in class, regular time and place)
- Monday, December 11th (Final Exam, 11:50am-1:50pm, [http://registrar.colostate.edu/academic-resources/final-exams/](http://registrar.colostate.edu/academic-resources/final-exams/)). The locations will be announced towards the end of the semester.

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It is crucial that you correctly mark your section number and exam version on your exams. Failing to do so may result in an inability to determine your grade and, thus, you may be assigned a zero.

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Tentative Schedule with appropriate Chapter Sections

1. Introduction to course (Algebra Review, R.4, 1.3 Average Rates of Change)
2. Sections 1.1, 1.2 Limits and Continuity
3. 1.4 Differentiation Using Limits of Difference Quotient
4. 1.5 Power Rule, Sum–Difference Rule
5. 1.6 Product Rule, Quotient Rule

EXAM #1
6. 1.7 Chain 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 Maximum-Minimum Problems in Business and Economics

EXAM #2
12. 2.8 Implicit Differentiation and Related Rates
13. 3.1, 3.2 Exponential and Logarithmic Functions
14. 3.3, 3.4 The Growth and Decay Models and Differential Equations

EXAM #3
15. 4.1 Anti-differentiation
16. 4.3 Area and Definite Integrals
17. 4.4 Properties of Definite Integrals, Area Between Curves
18. 5.1 Consumer's Surplus and Producer's Surplus
19. 4.5 Integration Techniques: Substitution
20. Other topics, as time allows.

Grades

The course grade is based entirely on exams and MyMathLab quizzes and the Algebra Test. The exams are multiple choice/scantron. Exam scores will be posted on Canvas. Scores for your Algebra Exam and Quiz Average can be accessed through MyMathLab. 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.

Your final grade will be determined with the following weighting.

Quizzes: 100 pts
Algebra Exam Online: 50 pts
Lowest Midterm Exam Score: 100 pts
Other Two Midterms: 200 pts each
Final Exam: 250 pts
Total: 900 pts
Keep in mind:

EXAM SCORES WILL BE POSTED ON CANVAS, NOT MYMATHLAB. MYMATHLAB QUIZ AND ALGEBRA TEST SCORES WILL ONLY BE AVAILABLE ON THE MYMATHLAB WEBSITE (NOT CANVAS)

THERE WILL BE NO EXAM RETAKES. DO NOT TAKE AN EXAM IF YOU ARE SICK, BUT INFORM YOUR INSTRUCTOR BEFORE THE EXAM!!!

EXAMS AND QUIZ SCORES WILL NOT BE CURVED.

NO LATE EXAMINATIONS WILL BE GIVEN EXCEPT IN THE CASE OF A DOCUMENTED EMERGENCY, RELIGIOUS HOLIDAYS OR SCHOOL APPROVED ACTIVITY

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


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The instructor does not give you a grade. You earn your grade. Your grade will reflect the total number of points that you have earned based on demonstrated knowledge and competence, not effort.

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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 from 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/tutoring/artSciences.cfm

Important Dates (see http://www.registrar.colostate.edu/fall-important-dates)

Aug 25th: Restricted drop deadline
Aug 28th: End regular add (Without Override); Add with override begins.
Sep 4th: Labor Day holiday (no classes)
Sep 6th: Registration closes; student option Pass/Fail and audit grading forms due
October 16th: End of course withdrawal (“W”) period; Repeat/Delete requests due
Nov 18th – 26th : Thanksgiving Break
Dec 8th: Classes end; university withdrawal deadline

Academic Integrity (see http://tilt.colostate.edu/integrity)
We take academic integrity seriously at CSU. Academic dishonesty (cheating) is unauthorized and can result in loss of credit or failure on assigned work or even the course. Cheating could also lead to expulsion from the university.

The CSU honor pledge for assigned work is the following:

“I have not given, received, or used any unauthorized assistance.”