

WELCOME TO MATH 141: Calculus in Management Sciences

This course contained Sections 801 and 809!!

*****THIS IS AN ONLINE COURSE WITH ECHO 360 LECTURES, ZOOM HELP SESSIONS, ZOOM REVIEW SESSIONS, AND Respondus LockDown Browser + Webcam EXAMS*****

All class information (including important announcements, assignments, note packets, help session and review session recording links, practice exams, solution guides, extra credit opportunities, and important dates), will be posted under the weekly modules on Canvas. Following the weekly modules is the best way to keep up with the course.

Instructor: Dr. Kelly Chappell, chappell@math.colostate.edu

Course Description: Analytic geometry, limits, equilibrium of supply and demand, differentiation, integration, applications of the derivative, integral.

Prerequisite: MATH 118 or Math 127. Credit allowed for only one of the following courses: MATH 141, MATH 155, MATH 159, or MATH 160.

Lectures: I am teaching a face-to-face section of Math 141 on MWF from 3:00 pm to 3:50 pm in Eddy Building Room 212. The lectures will be recorded through Echo360. I ask that you watch the recordings of the class lectures via Echo360.

In general, there will be three lectures per week. However, there will be no lectures on the following dates:

Wednesday, February 07 (due to Exam 1)

Friday, February 09 (The department does not hold class the Fridays of exam weeks.)

Wednesday, March 06 (due to Exam 2)

Friday, March 08 (The Math Department does not hold class the Fridays of exam weeks.)

Wednesday, April 10 (Due to Exam 3)

Friday, April 12 (The Math Department does not hold class the Fridays of exam weeks.)

*****I may temporarily move to Zoom Lectures if I test positive for COVID-19 (but feel my symptoms are mild enough that I can continue to teach remotely) or am caring for a child/other family member who is in isolation or quarantine at home.*****

- Please check communications regularly in case there is a sudden need for me to shift teaching modality, so you do not show up to an empty classroom. If any classroom lectures are to be replaced with Zoom lectures, I will announce it through a whole-class email sent via Canvas and also in the weekly modules on Canvas. In the announcement, I will tell you how to access the Zoom lecture(s). I will record any Zoom lecture(s) and post the recording link(s) under the weekly modules on Canvas.

Important Dates:

Last day to add without override is January 21, 2024.

Last day to add with override is January 31, 2024.

Last day to drop is January 31, 2024.

Withdrawal period is February 01, 2024 through April 12, 2024.

Textbook: The textbook for this course is Marvin Bittinger's Calculus and Its Applications, 12th Edition. The eText is provided automatically through MyLab Math, and **you do not need to purchase a physical copy** (unless you want to).

Note Packets: Note packets may be handed out in class. If you must miss a class, please find the note packet that you did not receive (under course navigation link "Modules"), print the packet, and bring it to class when you return. Do not assume that note packets from the class that you missed will be available when you return.

MyLab Math: MyLab Math is an online homework/quiz platform and Multimedia Library (that includes Power Point, Java Applets, Video Lectures, and Multimedia Textbook).

Registration Instructions to be FOLLOWED EXACTLY AS WRITTEN:

1. Login to Colorado State University's Canvas system.
2. Access your instructor's course.
3. Click the Access Pearson tab in Course Navigation.
4. Select Open MyLab and Mastering to go to the Course Home Page.
5. Agree to Pearson privacy policies or authentication requests.
6. Enter your Pearson username and password. If you are new to Pearson MyLab and Mastering, Create an Account.
7. Select Link Accounts. If you see a confirmation page, select Continue.
8. Very carefully enter the MyLab Math registration code: **WMBCAE-PRINK-YONNE-SMITE-TANIS-BODES**
9. Select "Go to My Course" to access your Pearson MyLab Math content.

You now have full access to MyLab Math and your student account will be billed by the bookstore after the drop/add date. Please look for an email to your CSU email account from the bookstore with additional details regarding the Inclusive Access program and policies.

To make your product experience as smooth as possible, complete the MyLab Math Browser Check (on MyLab Math Course Home) to check that your device uses a supported web browser and operating system for the product you are accessing.

- **Pop-ups must be enabled.** [How to enable pop-ups \(Links to an external site.\)](#).
- **Cookies must be enabled.** How to enable cookies for [Chrome \(Links to an external site.\)](#), [Firefox \(Links to an external site.\)](#), [Safari \(Links to an external site.\)](#), [Internet Explorer, \(Links to an external site.\)](#) [Edge \(Links to an external site.\)](#).
- **JavaScript must be enabled.** [How to enable Java and JavaScript \(Links to an external site.\)](#) for your browser.

For technical support with Pearson's MyLab, open a ticket here:

<https://support.pearson.com/getsupport/s/contactsupport>

Enter some information, and then you will be given an option to call or chat with a technician, along with a Case Number.

MyLab Math Quizzes:

MyLab Math quizzes count for 20% of your grade.

- Quizzes will be administered online using MyLab Math.
- The quizzes are TENTATIVELY due on Wednesdays at 11:59 pm. There will be no quiz for weeks 1, 5, 9, 13, and final exam week.
- There will be 11 quizzes assigned. Only your best 10 quiz scores will be kept. This allows you to miss a quiz, for any reason, with no penalty.
- You have unlimited attempts for each quiz.
- Quizzes will count for 20% of your course grade.

Online quizzes give you immediate feedback on how well you are understanding the course material. If you are struggling with these quizzes, please take advantage of the resources available to you.

Technology issues can occur with any digital product. Complete your MyLab Math assignments accordingly. If you experience a technical issue or need further assistance, contact **Pearson 24/7 support at <https://support.pearson.com/getsupport/s/contactsupport>**, not your instructor. When you contact customer support, please get an incidence number. **Instructors will only consider extending quiz deadlines for students who have called customer support in a timely manner and received an incident number.**

Calculators: You may use a TI-83, TI-84, or a basic scientific calculator. 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. **Use of any unauthorized electronic devices (such as cell phones, iPods, and cameras) on an exam will result in a score of 0 points for that exam. On exam days, do not expect to borrow a calculator from the instructor.**

Respondus LockDown Browser + Webcam Exams: There will be 4 Respondus LockDown Browser + Webcam exams. Each exam is worth 20% of your final grade. They will cover material from class notes, online material (homework and quizzes), and practice exams. Exam 4 is the final exam. Please note that each exam will have 20 questions and possibly a 21st bonus question. The exams will be given in multiple choice format.

Exam 1 - Wednesday, February 07 (The testing window starts on Wednesday, February 07 at 3:00 pm and ends on Thursday, February 08 at 3:00 pm)

*There will be no class on February 09.

Exam 2 - Wednesday, March 06 (The testing window starts on Wednesday, March 06 at 3:00 pm and ends on Thursday, March 07 at 3:00 pm)

*There will be no class on March 08.

Exam 3 - Wednesday, April 10 (The testing window starts on Wednesday, April 10 at 3:00 pm and ends on Thursday, April 11 at 3:00 pm)

There will be no class on April 12.

Final Exam – Finals Week (The testing window starts on Monday May 06 at 7:30 am and ends on Tuesday May 07 at 7:30 am)

I will assign a Respondus LockDown Browser + Webcam Practice assignment so that you can practice taking an exam. Complete this assignment with the following instructions in mind. These instructions will be the same for each exam:

Once you are through the startup process, you will then have 55 minutes (120 minutes for the final exam) to do the following:

- 1) answer the 21 multiple-choice questions
- 2) click "Submit Quiz" AFTER you have answered all 21 questions

Important:

- You are allowed to use scratch paper,
- If you encounter issues during the exam, you can use the chat feature to get help.
- After answering all 21 questions, make sure you click "Submit Quiz."

Homework: MyLab Math homework assignments are **not for credit** and will not be factored into your course grade. Homework is only assigned to help you prepare for the quizzes. When in homework mode you will have unlimited attempts, and you can choose from different options, such as “Help Me Solve This”, “View an Example”, “Textbook”, “Connect to a Tutor”, and “Instructor Tip.” Once you submit your homework, you can see precisely what you missed, which is important information that helps you do well on the quizzes.

Help Sessions and Review Sessions:

Help Sessions are times set aside for you to receive extra help in preparing for quizzes.

Kelly will hold weekly Help Sessions on Wednesdays from 5:00 pm to 5:50 pm via Zoom. You do not need to make an appointment. Drop-ins are welcome!!

Your TA, Paul, will hold weekly Help Sessions on Wednesdays from 1:00 pm to 3:00 pm. You may attend these sessions in person at the Calculus Center (TILT Building Great Hall) or via Zoom. You do not need to make an appointment. Drop-ins are welcome!!

Review Sessions are times set aside for you to receive extra help in preparing for the exams.

Kelly's review sessions will be held on February 06 (Exam 1), March 05 (Exam 2), April 09 (Exam 3), and May 5 (Final Exam) from 5:00 pm to 6:30 pm via Zoom. Please plan accordingly.

Please access the Zoom Math 141 Help Sessions and Exam Review Sessions using the following:

Link: <https://us02web.zoom.us/j/83199312436>

Meeting ID: 831 9931 2436

Passcode: 737426

Grade Computation:

Course Percentage	Final Letter Grade
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97% - 100%	A+
90% - 96%	A
87% - 89%	B+
80% - 86%	B
77% - 79%	C+
70% - 76%	C
60% - 69%	D
0% - 59%	F

Your course percentage will be rounded up. For example, a 79.0000000000001 is a B.

Resolution of Grading Errors: You have no more than one week after a grade is recorded to have your score altered due to a recording error or grading mistake. Please take prompt responsibility for ensuring your grades are properly recorded in Canvas.

Missing a Quiz or Exam: All quizzes and exams must be taken at the times and dates stated on the syllabus. The ONLY exceptions are conflicts due to a university approved absence (for which a special letter is required) and events beyond your control that cannot be rescheduled (e.g. medical emergencies). In either case, it is the student's responsibility to inform the instructor well ahead of a conflict with a university event or as soon as possible in case of a medical emergency and to provide written documentation. You will be required to provide **written documentation** of your emergency before you will be allowed to make up any missed quiz/exam.

If you have a university approved absence or documentable emergency and need to schedule an alternate exam, then you must do the following, and your instructor will then provide you with instructions for taking the exam at an alternate day/time.

1. Contact your instructor via email at least one week prior to the university approved absence or as soon as possible after a documentable emergency.
2. Provide appropriate documentation. If you have a serious medical emergency, you will need to obtain medical documentation from a doctor who has examined you. The documentation must specifically and explicitly attest to you not being physically able to take the exam. A note that only documents a visit to a doctor will NOT excuse you from an exam.

No alternate exams will be allowed for class conflicts. If you have a class meeting during the time of an exam, you must arrange to miss that class in order to take the Math 141 exam. I am unable to offer alternate exams for other situations such as work commitments or travel plans. Having pre-arranged personal travel plans will not be considered a valid excuse for missing an exam.

Academic Integrity: Courses in the Mathematics Department adhere to the Academic Integrity Policy of the CSU General Catalog and the Student Conduct Code (Section 1.6 of the course catalog). At a minimum, violations will result in a grading penalty in this course and a report to the Student Resolution Center. See more details at catalog.colostate.edu/general-catalog/policies/students-responsibilities/#academic-integrity and <https://tilt.colostate.edu/Integrity/Pledge>

I know each and every one of you can succeed honestly in this course without resorting to cheating, and I will work with you to help you achieve that.

By submitting quizzes and exams, you certify that it is your own work. Students judged to have engaged in cheating may be assigned a reduced or failing grade for the assignment or the course and may be referred to the Office of Conflict Resolution and Student Conduct Services for additional disciplinary action. Students judged to have cheated on an exam will receive both a

zero on the exam and an additional penalty applied to their class average. This will make it difficult, or in some cases impossible, to pass the course even for a first offense

Some examples of academic integrity violations include:

- Possessing and/or using unauthorized reference information in any form that could be helpful while taking an exam. Please note that merely having access to forbidden materials (such as a cell phone or iPod) during an exam will be judged to constitute academic dishonesty whether or not you are actually caught using them. Communicating with another student during an exam will be judged to constitute cheating whether or not the conversation can be proven to have had to do with the exam. It is incumbent upon you to conduct yourself in a way where there can be no question about your academic honesty.
- Making misrepresentations having to do with an exam (such as fabricating an excuse for missing one, changing an answer once the exam has been handed back to you, or similar) will also be judged to constitute cheating

Other Resources to Help You Succeed in Math 141:

- Detailed solution guides will be posted for select quizzes, after the due date, in the weekly modules on Canvas.
- Practice exams and detailed solution guides will be provided. The practice exams are similar to the real exam, both in terms of the types of questions asked as well as the exam format.

Extra Credit Opportunities: You will receive up to 1 bonus point (5 percentage points) on Exam 1 if you visit a help session or the review session prior to Exam 1. For every 10 minutes that you attend, you will receive .20 of a point (roughly 1%). **You are welcome to stay for more than 50 minutes or attend more than one session, but the maximum credit that you can receive is 1 point (5%) on Exam 1.**

Guide for Students on COVID Reporting:

All students are directed to report any COVID-19 symptoms to the university immediately, as well as exposures or positive test results from a medical provider or home test.

- If you suspect you have symptoms, or if you know you have been exposed to a positive person or have tested positive for COVID (even with a home test), you are directed to fill out the COVID Reporter (<https://covid.colostate.edu/reporter/>).

- If you know or believe you have been exposed, including living with someone known to be COVID positive, or are symptomatic, it is important for the health of yourself and others that you complete the online COVID Reporter. Do not ask your instructor to report for you.
- If you do not have internet access to fill out the online COVID-19 Reporter, please call (970) 491-4600.
- You may also report concerns in your academic or living spaces regarding COVID exposures through the COVID Reporter. You will not be penalized in any way for reporting.
- When you complete the COVID Reporter for any reason, the CSU Public Health Office is notified. Students who report symptoms or a positive antigen test through the COVID Reporter may be directed to get a PCR test through the CSU Health Network's medical services for students.

For the latest information about the University's COVID resources and information, please visit the CSU COVID-19 site: <https://covid.colostate.edu/>.

ADA Statement: CSU is committed to providing reasonable accommodations for all persons with disabilities. If you are a student with a disability or chronic health condition and you need accommodations, *please contact the Student Disability Center (SDC) as soon as possible to initiate the accommodation process.* The SDC is located in room 121 of the TILT Building. Their phone is (970) 491-6385 and website is disabilitycenter.colostate.edu.

Your instructor will need an accommodation letter from the Student Disability Center (SDC) before accommodations are implemented. Please email appropriate forms to your instructor no less than one week before an exam and have the forms ready to be filled out. Only one form is required for all midterms and one form for the final exam. These students must schedule their exams with the SDC at least one week in advance of each midterm and the final.

Religious Observances and Class Attendance: CSU has a legal obligation to accommodate students' absences due to religious observances. For such an accommodation, it is the student's responsibility to complete the Religious Accommodation Request Form at the beginning of each semester and submit the request via the Office of the Vice President for Student Affairs website. The Dean of Students will communicate with the instructor regarding the student's absence and the student is instructed to discuss how best to ensure an accommodation related to class conflicts. For religious observances that cannot reasonably be anticipated at the beginning of the semester, students must follow the procedure above as soon as possible after the course conflict is identified. If a student knows that a particular course or section of the course will have multiple conflicts with his or her religious obligations, the student is advised to locate another course section or defer taking the course to a different semester. In the event of a conflict regarding this policy, individuals may appeal using established CSU procedures. Instructors are advised to provide reasonable accommodations to ensure compliance with CSU's obligations.

See more details regarding attendance policies at catalog.colostate.edu/general-catalog/academic-standards/academic-policies

Discrimination and Harassment: CSU is committed to providing an environment that respects the dignity and worth of every member of its community. CSU strives to create and maintain a work and study environment that is fair, inclusive, and responsible so that each member of the CSU community is treated with dignity and respect and is rewarded for relevant considerations such as ability and performance. CSU has adopted a comprehensive policy to define the types of conduct that are prohibited and to prevent harm arising from discrimination, harassment, sexual harassment, sexual misconduct, domestic violence, dating violence, stalking, and retaliation. Conduct that is discriminatory or harmful under the policy inhibits the achievement of the stated goals. All students, faculty, staff, and other persons having business with CSU are expected to know and follow this policy. Details regarding what is involved in bringing a complaint and the procedures for informal and formal resolution are available from the Office of Support and Safety Assessment for student-to-student behavior and the Office of Equal Opportunity for matters involving non-students such as faculty, staff, affiliates, or visitors and matters involving a student and non-student person. See more details at catalog.colostate.edu/general-catalog/policies/discrimination-harassment/

Classroom Behavior and Respect for Diversity: Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veteran's status, sexual orientation, gender, gender identity and gender expression, age, disability, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see the policies on classroom behavior and the student code at <https://catalog.colostate.edu/general-catalog/policies/students-responsibilities> and at <https://resolutioncenter.colostate.edu/student-conduct-code/>.

Learning Objectives: The Colorado Commission on Higher Education has approved MATH 141 for inclusion in the Guaranteed Transfer (GT) Pathways program in the GT-MA1 category. For transferring students, successful completion with a minimum C- grade guarantees transfer and application of credit in this GT Pathways category. For more information on the GT Pathways program, go to <http://higher.ed.colorado.gov/academics/transfers/gtpathways/curriculum.html>.

GT Pathways Mathematics (GT-MA1) Content Criteria:

a) Demonstrate good problem-solving habits, including:

- Estimating solutions and recognizing unreasonable results.
- Considering a variety of approaches to a given problem, and selecting one that is appropriate.
- Interpreting solutions correctly.

b) Generate and interpret symbolic, graphical, numerical, and verbal (written or oral) representations of mathematical ideas.

c) Communicate mathematical ideas in written and/or oral form using appropriate mathematical language, notation, and style.

d) Apply mathematical concepts, procedures, and techniques appropriate to the course.

e) Recognize and apply patterns or mathematical structure.

f) Utilize and integrate appropriate technology.

GT Pathways Mathematics (GT-MA1) Competencies:

Quantitative Literacy

Interpret Information

a. Explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words).

Represent Information

a. Convert information into and between various mathematical forms (e.g., equations, graphs, diagrams, tables, words).

Perform Calculations

a. Solve problems or equations at the appropriate course level.

b. Use appropriate mathematical notation.

c. Solve a variety of different problem types that involve a multi-step solution and address the validity of the results.

Apply and Analyze Information

- a. Make use of graphical objects (such as graphs of equations in two or three variables, histograms, scatterplots of bivariate data, geometrical figures, etc.) to supplement a solution to a typical problem at the appropriate level.
- b. Formulate, organize, and articulate solutions to theoretical and application problems at the appropriate course level.
- c. Make judgments based on mathematical analysis appropriate to the course level.

Communicate Using Mathematical Forms

- a. Express mathematical analysis symbolically, graphically, and in written language that clarifies/justifies/summarizes reasoning (may also include oral communication).

Problem Solving

Define a problem

- a. Construct a detailed and comprehensive problem statement or goal.
- b. Identify relevant contextual factors.

Propose a Strategy

- a. Identify reasonable approaches to solving the problem within the given context.

Evaluate Potential Strategies

- a. Provide an evaluation of the potential strategy(ies) which may include: i. the history of the problem, ii. the logic behind the potential strategy(ies), iii. the feasibility of the proposed strategy(ies), and iv. the potential impacts of the proposed strategy(ies).
- b. Choose a feasible strategy.

Apply a Strategy

- a. Implement chosen approach(es).
- b. Gauge success of the chosen strategy(ies) and revise as needed.

Evaluate Results

- a. Discuss and review results relative to the context of the problem.

b. Make recommendations for further work (where applicable).