Math 161, Summer 2024

Instructor: Kelsey Brown (KelseyMinna.Brown@colostate.edu)
Office Hours: TBD (we will decide these together as a class on the first day)

Textbook: Thomas' Calculus, by George Thomas (**entirely optional**)

About the Course:
This class picks up here MATH-160 leaves off, and it will cover topics such as integration techniques, applications of integration, sequences and series, and Taylor series and their applications. This course emphasizes critical reasoning and problem solving skills rather than rote memorization, so working a large number of practice problems (and seeking help when you're stuck!) is essential. This course will also require you to be able to explain *why* you're solving problems in a certain way. Many of the problems I assign will be problems that you will need to consider and think through rather than problems that you can solve right away. The hope is that, when you are finished with this course, you will not only be able to do more math, but you will actually be "better" at math!

Prerequisites:
The prerequisite for this class is Calculus I, and a thorough working understanding of the topics covered in that course is essential for succeeding in Calculus II. These include limits, derivative rules, L'Hopital's rule, integrals, the fundamental theorem of calculus, and u-substitution, as well as pre-calculus topics such as exponentials, logarithms, trig functions, and so forth.
If you are not sure that you have a sufficiently strong grasp of the prerequisites (for example, it's been a while since your last math class), the best thing to do would be to speak with me as early as possible about options for remedying the situation.

Grade Distribution:
Precise letter grade cut-offs (no +/-) will be determined at the end of the summer, but are expected to be no stricter than:

A: 90-100%
B: 80-89%
C: 70-79%
D: 64-69%

Coursework:
The workload and grading breakdown for the course is as follows:

Homework: 20%
Exams: 60% (20% each)
Final Exam: 20%

Homework:
There will be a total of nine homework assignments. I will drop the lowest two assignments, but ***only if they are completed.*** This means that I will not drop blank assignments or assignments that have not been turned in. Because this is a summer course, it moves rather quickly, and staying on top of your homework will be incredibly important for not falling behind in the material, as it does build throughout the semester. Late homework will not be accepted.

Exams:
There will be three in-class exams on **June 25th, July 10th,** and **July 23rd**, as well as an in-class final exam on **August 2nd**. Each exam will be worth 20% of your overall grade, as will the final. A portion of the class day after each exam will be dedicated to discussing the exam. Exams will be closed-note with no calculators allowed, but I will provide a formula sheet. There will be no curve or exam corrections, but there will be an opportunity at the end of the summer for your final exam score to replace the lowest of your three exam scores.
Exams will not be rescheduled for travel or unexcused absences.

Attendance/In-class Participation:
Attendance for this course will not count toward your overall grade, however, I *will* take attendance each day. At the end of the semester, students with **no more than five** unexcused absences may have their final exam grade replace their lowest midterm score, provided all three midterms were taken (so you cannot opt to just not take a midterm and have that score replaced). This means that not attending class will not directly impact your grade, but you are expected to be present; the class moves very quickly, and missing days is detrimental.

Accommodations:
If you require Student Disability Center Accommodations for exams, you must make arrangements with the Student Disability Center and provide formal documentation at least one week in advance of every exam.

Life Circumstances:
If you are experiencing a serious, unexpected life circumstance that is affecting your ability to participate in the course fully, the best thing to do would be to confer with the CSU Student Case Management, which deals with these situations in a safe, confidential and professional manner. The URL is:

https://studentcasemanagement.colostate.edu/

Academic Honesty Policy:

The University Policy on Academic Integrity is enforced in this course, and the academic honesty penalties for this class are quite serious and predicated on a philosophy that it is much better to not hand in an assignment at all then it is to hand one in dishonestly. I strongly advise you not to run afoul of the honesty code – it is simply not worth it. If you find yourself struggling in the course, the best thing to do would be to talk to me about the issue.

Please note that simply having access to forbidden materials – such as notes, a calculator, a smart phone, etc. – during an exam constitutes a breach of academic honesty, whether or not you are observed actually using them. Likewise, making misrepresentations to your instructor about any issue related to the operation of the course, providing fraudulent or misleading documentation, or otherwise creating a situation in which it is not possible to reliably assess whether or not your actions conformed to course and university policy is also considered a violation of the honesty code. Please remember that the penalties for such infractions are generally much more severe then a zero on the assignment itself, and it is usually not possible to pass the course after even one academic honesty infraction. Again, the best thing to do would be to steer clear of any honor code situations – as long as you have right prerequisites and participate in the course fully, all students should be able to pass the course on their own merit.