

Math 161: Calculus II, Spring 2024

Coordinator: Dr. Philip Kopel (philip.kopel@colostate.edu)

Instructor: Varies with section (see your section Canvas page).

Suggested Textbook: Thomas' Calculus, by George Thomas (Entirely Optional).

About the Course: This class picks up where MATH-160 leaves off, and will cover topics such as intergration techniques, applications of integration, sequences and series, convergence criteria, Taylor series and their applications, complex numbers and Euler's formula.

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. Many of the problems we 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-calc topics such as exponentials, logarithms, trig functions, and so forth.

Calc Center: Tutoring and regular help hours for each instructor are available for this course through the Calculus Center. The Calculus Center is located in the Russell George Great Hall in The Institute for Learning and Teaching (TILT). No appointment is necessary and all students are welcome. TILT also provides their own tutoring services for Math 161; for more detailed information please see <http://tilt.colostate.edu/learning/tutoring/>.

Grade Distribution

Precise letter grade cut-offs will be determined at the end of the semester, but are expected to be no stricter than:

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

Your final grade is computed based on your homework (10%), quizzes (5 %), the three midterms exams (20% each) and final exam (25%). Please be aware that we do not use Canvas to compute averages, and averages automatically generated by Canvas are likely not correct and may be substantially misleading. It is assumed that if you are enrolled in 161 you are able to compute a weighted average and thereby keep track of your performance during the semester yourself, and it is advisable to do so.

Please also note that we do not offer any additional or alternative credit opportunities at the end of the semester, we do not adjust grades based on the requirements of a given major, scholarship, planned future course work or graduation schedule, and we do not round up final averages.

Lectures: Lectures will be delivered by your section instructor. While attendance is not strictly mandatory in the sense of counting towards your grade, it is fully expected that you be able to attend and participate each day and excessive absence and tardiness may adversely affect your ability to succeed in the course.

Homework: Homework is assigned weekly, except for exam weeks, and is graded for both completion/presentation and for accuracy. Homework needs to be submitted in person. Scores lower than your midterm exam average are replaced by the midterm exam average at the end of the semester.

Quizzes: Short quizzes will be given in class at the end of most weeks, on Friday, excluding exam weeks. Scores lower than your exam average are replaced by the exam average at the end of the semester, and for this reason make-ups are never offered.

Exams: Midterm exams will be given on select Thursday evenings: February 8, March 7 and April 11 from 5:00 to 6:50. The final exam will be given on the date and time designated by the university; this information can be found on the CSU Spring 2024 Final Exam Schedule webpage and this semester turns out to be at 7:30-9:40 AM the Monday of finals week.

Exam Policies

- You must make sure you bring your student ID with you and sign in to all exams, otherwise we will not be able to verify your identity and presence. Having calculators, notes, phones, and so forth on your person during an exam is strictly not allowed.
- Midterm exams are not necessarily going to be held in the same room as lectures, and the final exam is not necessarily going to be held in the same rooms as the midterms. Exam room information will be provided by your instructor, and it is entirely your responsibility to make sure you are where you're supposed to be. The doors close twenty to thirty minutes into each exam.
- It is the student's responsibility to make sure grades are entered accurately on Canvas, and to alert their instructor in a timely manner in case of error. Time for review of exams will be provided in class on the day exams are returned; concerns about grading need to be brought during this time. Once a student leaves the classroom with their exam, the window to contest grading will have closed and grade corrections will no longer be considered.
- Please make sure you can make all of the exams at the beginning of the semester, and do not schedule personal travel that conflicts with these times, as this will not be considered valid for the purposes of scheduling an alternate testing time. This includes wanting to leave early for spring break. The only exceptions are conflicts with university approved absences (for which a special letter is required), religious observances, and for very serious emergencies.
- In the case of a legitimate exception, it is the student's responsibility to inform the instructor in due course (well ahead of a conflict with a university event, or as soon as possible in case of a medical emergency) of this conflict and to provide written documentation. Lateness in informing the instructor of a potential issue can be considered grounds for an alternate exam not to be provided, even in the case of valid excuse.
- If you have a serious medical emergency, you will need to obtain medical documentation from a doctor who has examined you which specifically and explicitly attests to you not being physically able to take the exam. In particular, a note that only documents a visit to doctor will not be considered adequate.

SDC Accommodations: If you require Student Disability Center Accommodations for exams, you must make arrangements with the Student Disability Center and provide formal documentation to the course coordinator and your instructor at least one week in advance of every exam. The exam needs to be taken at the same date and with the same starting time as the unaccommodated midterm, unless an alternate start time has been cleared with the course coordinator.

Experimental Sections: We are running several sections this semester in experimental format. The issues should not be too substantial, but if you are in one of these sections there may be small deviations from this syllabus and from the class schedule (which assumes MTWF meeting times) in a few places. Your instructor will keep you informed of the alterations which impact your section.

Academic Honesty Policy: The University Policy on Academic Integrity is enforced in this course, and the academic honesty penalties are predicated on a philosophy that it is better to not hand in an assignment at all than it is to hand one in dishonestly. We 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 your instructor or the coordinator about the issue, or to increase your time spent in the Calculus Center.

All work submitted must be reflective of your own understanding. Uploading questions online, or using a solution which was either obtained online or authored in the main by another person or service, is strictly prohibited. You also can not resubmit work from a previous semester, even if it was done honestly initially. Submitting work that is excessively similar to that of another student, or that you can not justify or explain adequately afterward, is also considered academic dishonesty. This includes exam solutions that the student can not explain later. The course policy is that if several assignments are found to be excessively similar, then academic honesty penalties will be incurred by all of the students in question. In other words, we do not distinguish between the student who copied a solution and the student who allowed their solution to be copied. This also includes situations where multiple students obtain a common set of solutions from a third party.

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, coordinator, or the university about any issue related to the operation of the course, providing fraudulent or misleading documentation, and so forth, is also considered a violation of the honesty code. Please remember that the penalties for such infractions are generally much more severe than a zero on the assignment itself, and it is usually not possible to pass the course after even one academic honesty infraction. Please also be advised that potential academic honesty infractions are assessed on a preponderance of evidence basis and in a factual dispute between a student and an instructor or exam proctor the burden of proof typically would rest with the student.

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.