MATH 261 Calculus III

Syllabus – Fall 2023

A. COURSE INFORMATION

Primary Instructor: Varies with sections (see your section Canvas page)

Course Coordinator: Baohua Chen (baohua.chen@colostate.edu)

Course Website: Canvas.colostate.edu

Office Hours: 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 *you can attend the office hours of any instructors*. Information about the tutoring schedules in Calculus center is found from https://mathematics.colostate.edu/about/calculus-center/

B. COURSE DECRIPTION

Catalog Description: Math261 focuses on the multi-dimensional analysis (derivative and integrals), as opposed to one-dimensional analysis that you learned in Calculus I and II. We will learn the concepts such as a vector, a vector field, a function of several variables, partial derivative, multi-dimensional integrals, line integral and surface integral, along with three related integral theorems like Green's Theorem, Stokes Theorem, and Divergence Theorem.

Prerequisites: A thorough understanding of the topics covered in Calculus I and Calculus II is essential for success in Calculus III (especially derivative and integration rules). Some background in linear algebra may be helpful at some points but is not required.

C. SUGGESTED TEXTBOOK

1. Thomas' Calculus, early transcendentals. We will cover roughly Chapters 12-16. This textbook has been posted to Canvas.
2. Calculus: Single and Multivariable. By Deborah Hughes-Hallett

D. INSTRUCTIONAL METHODS AND ACTIVITIES

- **Lectures**: Class meets four times a week, and your attendance is expected in every class session. Excessive absence may compromise your ability to succeed in the course.

- **Weekly Homework**: Homework is assigned each **Tuesday**, except for exam week. It is graded for both completion and accuracy. Homework grades will only count if they improve your score, in the sense that at the end of the semester, the scores of homework assignments that are lower than your midterm exams average are replaced by the midterm exams average.

- **Weekly Quizzes**: Short quizzes will be given in class each **Friday**, excluding exam weeks. Up to five quiz-scores that are lower than your midterm exams average will be replaced by the midterm exams average at the end of the semester.

- **Midterm Exams**: Three in-class midterm exams are given on the select **Thursday evenings**: September 14, October 12, and November 9, at 5:00 pm - 6:50 pm.

- **Final Exam**: The comprehensive final exam is given on the date and time designated by the university, Dec.11, Monday, at 11:50 am - 1:50 pm.

E. <u>MAJOR COURSE REQUIREMENTS AND GRADING</u>

Your final grade is calculated according to the following percentages:

Activity	% of Final Grade
Homework	10 %
Quizzes	5 %
Midterm Exam1	20 %
Midterm Exam2	20 %
Midterm Exam3	20 %
Final Exam	25 %

Grading Scales: A: 90-100%, B: 80-89.99%, C: 70-79.99%, D: 60-69.99%, F: 59.99%-

Note:

- The overall grades automatically generated by Canvas are not necessarily correct and may be misleading; it is best to keep track of your performance yourself.

- The grade you earn in this course is the grade you will receive. We do not offer 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. If you actively participate in class, do the homework on your own and visit the Calc Center, you should not need these extra considerations.

F. <u>IMPORTANT DATES</u>

Aug. 21, Monday: Classes begin
Sep. 4, Monday: Registration closes- end of period for adding courses - last day for dropping courses without record entry, changes in grade option, and tuition and fee adjustment
Sep. 14, Thursday (5:00-6:50 pm): EXAM 1
Oct. 12, Thursday (5:00-6:50 pm): EXAM 2
Nov. 9, Thursday (5:00-6:50 pm): EXAM 3
Nov. 10, Friday: End Course Withdrawals ("W") Period, Repeat/Repair Deadline
Nov. 18, Saturday: Fall break begins-no classes next week.
Dec. 8, Friday: Last day of classes
Dec. 11, Monday (11:50 am-1:50 pm): FINAL EXAM
Dec. 19, Tuesday: Grades due

G. EXAM/HOMEWORK POLICIES

- No notes, calculators, cell phones and electronic devices are allowed to use during test.

- Midterm exams are not necessarily going to be held in the same room as lectures, and final exam is not necessarily going to be held in the same rooms as either the midterms or the lectures. 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.

- **Midterm Exams will be taken on Thursday evening**, and **there are no classes the next day** (Friday).

- **All exams must be taken at the time stated on the syllabus**. These dates and times cannot be changed. Please make sure you can make all the exams at the beginning of the semester, and do not schedule vacations, weddings, personal travel, etc. The conflict with these times will NOT be considered valid for the purpose of scheduling an alternate testing time. 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 events, 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 could result in accommodation not being offered, even for a 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. Note that only documents a visit to doctor will not be considered adequate.

- In the case that a student has three or more final exams in one day, the Registrar indicates that the student may negotiate with his or her instructors for an alternate exam time. For this situation, the general policy is that final exams for uncoordinated courses should be moved instead of those for coordinated courses.

- **Regrades**. If you find grading errors on an exam (e.g., you believe you lost points without reason or there was some arithmetic error with calculating the total grade), bring this potential error to the attention of your instructor **within the required time**. Please check grades on Canvas (especially after regrades) to make sure they were recorded accurately.

- **Quizzes**. **No make-up quizzes** since up to five quiz scores that are lower than the average of the three midterm exams are replaced by the midterm exam average.

- **Homework**. At the end of the semester, any homework score which is lower than the student's average of the three midterm exams is replaced by the midterm exam average. This includes zeros. For this reason, we strictly **do not accept late homework assignments** no matter what (including instances where the student has an excuse).

H. COLLEGE AND UNIVERSITY POLICIES

Accommodation: If you require Student Disability Center (SDC) Accommodations for exams, you must make arrangements with SDC and provide formal documentation to the course coordinator and your instructor 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 Integrity

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. 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 a question to the Internet, or using a solution which was either obtained online or otherwise authored in the main by another person, is strictly prohibited. Submitting work that is excessively similar to that of another students or that you cannot justify or explain adequately afterward is also considered academic dishonesty. The course policy is that if several assignments are found to be excessively similar, then academic honestly 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 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.

GENERAL DISCLAIMER

The course syllabus is a general plan for the course, modification of the schedules, assignments, deadlines, and course policies may be necessary. Instructors will announce such changes in a timely manner during regularly scheduled lecture periods.