

Welcome to Math 271, Fall 2023

Instructor: Evan Camrud (Pronouns: He/Him/His. You can call me "Evan" or "Dr. Camrud".)

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Office: Weber 129

Meeting Dates/Places: MTWF: 9-9:50am Military Sciences 105

Office hours: MTWF: 9:55-10:25am Weber 129 (my office)

- Office hours are strict, as I have other obligations to attend to at 10:30am.
 - If my door is closed during office hours time, and I have not made an announcement cancelling office hours for the day, it means I had to go somewhere *quick* and will be back very soon.
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Required Textbook: [Mathematics for Physicists](#), by Alexander Altland and Jan von Delft

Required supplies:

- [Wolfram cloud account](#) (free)
 - If you have Wolfram Mathematica access, this works too
 - A way to access [Wolfram cloud](#) during class
 - This can either be via a laptop computer, tablet, or phone
 - If you are unable to have access during class, please talk to me
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Course Description: (from catalog) Series and limits, Taylor series, complex variables, first- and second- order ordinary differential equations, matrices, linear transformations, determinants, and eigenvalues. (The *order* in which we cover these may differ slightly.)

Grading scale: (there may be a curve at the end of the semester)

A	≥93
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A-	≥90
B+	≥87
B	≥83
B-	≥80
C+	≥77
C	≥70
C-	N/A
D+	≥67
D	≥60
D-	N/A
F	<60

Assignments and Grade weights: LATE ASSIGNMENTS WILL **NOT** BE ACCEPTED EXCEPT FOR VERY RARE CIRCUMSTANCES (*e.g.*, extended illness, or other extended excused absences).

- Classwork/homework (10%): Due at the end of the day **each Tuesday** (except the first).
 - You will be placed in random groups of 3 (or 4) students for each week's assignment.
 - Each student in a group is required to create their own assignment solution sheet, but the "solving process" may be the same for each member of a group.
 - The assignment is *graded on completion alone*.
 - Odd-numbered exercise solutions are found in the back of the book.
 - In some sense, you are in charge of your own "grading", as I will share my solutions to the exercises so you can compare.
 - This should be uploaded to Canvas.
- Peer Participation Score (10%):
 - Since you are completing your HW in groups of 3 or 4, you are expected to attend class and assist your peers.

- Along with turning in your assignments at the end of each Tuesday, you are required to fill out a *peer participation score* form, grading your peers' participation (in your group).
- These scores will be updated on Canvas every 4 weeks, to ensure that no students know who specifically has given them good/bad participation scores. (That is, this will keep scoring slightly more anonymous.)
- This score will include daily attendance (unless excused). Therefore, **daily attendance is required.**
- Tuesday quizzes (40%):
 - Each Tuesday, during the final 10 minutes of class, we will have a quiz.
 - All quizzes will be "marked" by me, for accuracy, but...
 - **Only quizzes of EVERY OTHER week (beginning week 2) will have accuracy entered into the gradebook.** (Each is entered out of 10pts.)
 - That is, during the weeks which aren't entered, the quizzes are meant as PRACTICE quizzes. (Each is entered out of 1pt for completion, but "graded" out of 10pts for feedback.)
 - All quizzes are **open PAPER notes** (including printed book).
 - **No technology** is allowed.
 - Quizzes will start as soon as all technology is put away, and students have separated from each other as much as possible. (If you don't do this yourselves, I will tell you where to move.)
- Exams (40%):
 - There will be two midterm exams, and one final exam.
 - Midterm 1: September 29
 - Covers material through L4.1.
 - 12.5% of final grade.
 - Midterm 2: November 3
 - Covers material (cumulative) through L7.3
 - 12.5% of final grade.
 - Final exam: December 11 (7:30-9:30am)
 - Covers all course material (cumulative)
 - 15% of final grade.
 - All exams are **open PAPER notes** (including printed book).
 - **No technology** is allowed.
 - There will be a randomized seating chart for each exam. You must sit in your assigned seat.
- Extra credit? (<1%):
 - Extremely good participation (asking a lot of questions, answering posed questions, helping others outside of class, being courteous to others, etc.) has a chance of earning **extra credit** (<1% of final grade) in this category. This is *only* applied in cases when a <1% difference in the final grade will change the letter grade outcome. *This is the ONLY way to earn extra credit in the course and/or bump up a letter grade at the end of the semester.*

Path for success: To succeed (earn a C) in this course, you should

1. Attend class,
2. Complete all assignments,
3. Write down all definitions and theorems in an easily-accessible place,
4. Attempt each exercise alone, and consult others only when you are at your wits end,
5. Use your groups for assistance outside of class,
6. Be able to complete problems (on quizzes/exams) *similar* to those in the assignments without help.

To earn a B, you should also

- Be able to complete problems (on quizzes/exams) *dissimilar* to those in the assignments without help.

To earn an A, you should also

- Be able to easily *teach others* how to complete problems *dissimilar* to those in the assignments without help.

Academic misconduct: this course adheres to the ["Academic Integrity Policy of the Colorado State University General Catalog and the Student Conduct Code"](#).

I list the following forms (although this list is not exhaustive) of academic misconduct:

- Cheating; includes using unauthorized sources of information and providing or receiving unauthorized assistance on any form of academic work or engaging in any behavior specifically prohibited by the faculty member.
- Plagiarism; includes the copying of language, structure, ideas, or thoughts of another, and representing them as one's own without proper acknowledgment.
- Unauthorized Possession or Disposition of Academic Materials; includes the unauthorized selling or purchasing of examinations or other academic work; stealing another student's work; unauthorized entry to or use of material in a computer file; and using information from or possessing exams that an instructor did not authorize for release to students.
- Falsification; any untruth, either verbal or written, in one's academic work.
- Facilitation; knowingly assisting another to commit an act of academic misconduct.

The use of online "homework helper" sites including, but not limited to, Chegg, NoteHall, Quizlet, and Koofers is not permitted in this course. Please reach out to me to discuss if a specific service you are thinking about using for this course is acceptable.

Use of these types of resources will be considered receiving unauthorized assistance and, therefore, is academic misconduct.

In particular, participation in academic misconduct dilutes the quality of the education one receives, as well as undermines the honest work of their peers, which has a right to be recognized as a valued achievement.

The punishment for academic misconduct is immediate failure of the course.

Student accommodations: For accommodation requests, please complete the relevant forms on the [Student Disability Center website](#).

Tentative semester schedule:

Week Days/Date s	M 9:00-9:50 Mil. Sci. 105	T 9:00-9:50 Mil. Sci. 105	W 9:00-9:50 Mil. Sci. 105	R No Class	F 9:00-9:50 Mil. Sci. 105
August 21 - 25	L1.1	L1.3	L2.1		L2.2
August 28 - September 1	L2.3	Recitation/ Graded Quiz	L2.4		L2.4 (cont.)
September 4 - 8	Labor Day (no class)	Recitation/ Practice Quiz	L3.1		L3.2
September 11 - 15	L3.2 (cont.)	Recitation/ Graded Quiz	L3.3		L3.3 (cont.)

September 18 - 22	L3.4	Recitation/ Practice Quiz	L4.1		L4.1 (cont.)
September 25 - 29	L5.1	Recitation/ Graded Quiz	L5.2		Exam 1
October 2 - 6	L5.2 (cont.)	Recitation/ Practice Quiz	L5.3		L5.3 (cont.)
October 9 - 13	L5.4	Recitation/ Graded Quiz	L5.4 (cont.)		L5.5
October 16 - 20	L5.6/L2.5	Recitation/ Practice Quiz	L5.6/L2.5 (cont.)		L6.1
October 23 - 27	L7.1	Recitation/ Graded Quiz	L7.2		L7.3
October 30 - November 3	L7.4	Recitation/ Practice Quiz	L8.1		Exam 2
November 6 - 10	L8.1 (cont.)	Recitation/	L8.2		L8.3

		Graded Quiz			
November 13 - 17	L9.1	Recitation/ Practice Quiz	L9.2		L9.3
November 20 - 24	FALL	BREAK	NO		CLASS
November 27 - December 1	L8.4	Recitation/ Graded Quiz	L8.4 (cont.)		C5.1
December 4 - 8	C5.2	Recitation/ Practice Quiz	C5.3		C5.4
December 11 - 15	Final Exam 7:30-9:30am				