Source: wikipedia.org
Author: Jasampler at es.wikipedia

Applied [combinatorics and] graph theory is the theory and applications of discrete, (typically) finite structures. It is both a means and an end: it is a mathematically rich area in its own right, but it also has a broad range of applications, ranging from those arising in the "real-world" to those arising in other areas of abstract mathematics.

Class Information

Credit Hours: 3

Pre-requisites: Graduate standing in Applied Mathematics or permission of the instructor.

Meeting Days and Times: Mondays and Wednesdays, 9:30AM - 10:45AM

Meeting Room: Student Commons Building 4113

Course Website: https://jcmartinezmori.github.io/teaching/sp26_6404.html

Course Instructor

Contact Details

Name: Juan Carlos Martínez Mori, PhD

Email: carlos.martinezmori@ucdenver.edu

Office: Student Commons Building 4211

Student (Office) Hours: Thursdays, 11:00 AM - noon, or scheduled by email.

I am available for you primarily during Student Hours, which will be held in my office unless otherwise announced. The next best method to reach me is by email. At some point in the term my email inbox will get quite full, but I still want to hear from you! If you email me but do not hear back within two business days, please send me a reminder.

About Me

I am a civil engineer turned mathematician. As an undergraduate student at the University of Illinois at Urbana-Champaign, I was primarily driven by the prospect of improving our built environment (e.g., cities, transportation systems) through engineering applications. Later, as I progressed in my degree curriculum, I discovered mathematics not only as an essential tool for developing such applications, but as one that caught my interest in its own right. That prompted me to pivot to a doctoral degree (PhD) in applied mathematics at Cornell University. After graduate school, I continued going back and forth between engineering and mathematics, with postdoctoral fellowships at the Simons Laufer Mathematical Sciences Institute and the Georgia Institute of Technology,

before finally joining the Department of Mathematical and Statistical Sciences here at CU Denver in the fall of 2025.

I believe that mathematics drives new applications and applications drive new mathematics. And, as it turns out, the content of this course is particularly relevant to this interdisciplinary interaction. I am excited to explore it this term alongside you!

Agreement

This course aims to offer an empowering mathematical experience for all. Its technical content will challenge you, but the class is designed to support you throughout your learning process. To facilitate this goal, I expect you to agree with and adhere to the CU Denver Honor Code:

> *As a member of the University of Colorado Denver community, I pledge to:*
>
> - *Act with honesty and ethics in academia and in society by building mutual trust and responsibility as a foundation for lifelong integrity;*
>
> - *Advance learning, knowledge generation, and the free exchange of views and ideas as the lifeblood of academic freedom and of democracy;*
>
> - *Embrace diversity and practice inclusion, showing civility, respect, and care toward all persons, standing up for the essential worth and dignity of every individual;*
>
> - *Take responsibility for the consequences of my own actions and share responsibility for the well-being and safety of the community by also holding others similarly responsible.*
>
> *I will honor these commitments in every part of my life.* — CU Denver Honor Code

I more over expect you to review, agree with, and adhere to the CU Denver Student Code of Conduct. Any departure from the Student Code of Conduct will be handled in full accordance with established University guidelines.

Course Materials and Procedures

Learning Outcomes

Through this course, you will have the opportunity to:

- Learn and apply essential enumerative concepts, results, and techniques.

- Learn and apply essential graph-theoretic concepts, results, and techniques.

- Gain some exposure to discrete mathematics-based mathematical modeling.

- Strengthen your ability to distill technical literature with an eye for research.

- Strengthen your written and oral technical communication skills.

Expectations

To make the most of the opportunity this course represents, you should expect to:

- Consciously spend time on it. This will be a proof-based course, meaning attention to detail and mathematical elegance is the point. The necessary time commitment might vary depending on your individual circumstances. However, as a rough estimate, you should expect to spend around five hours per week on readings, assignments, and projects.

- Be mathematically curious. Many of the topics that I will cover in class are (at times subtly) inter-connected: it is good practice to ponder how they all fit together.

References

Most of the course content can be found in standard textbooks on the subject, such as *D. West, Combinatorial Mathematics, Cambridge University Press, 2021*. Clearly-written lecture notes will be crowd-sourced and posted on the course website (refer to the Assessment and Grades section for more information). Any additional references will announced in class as necessary.

Assessment and Grades

Your final point grade will be determined based on your course performance across several categories. These are described below:

- **Scribe Duties (15%)**. At the start of each lecture, I will appoint a student (ideally voluntarily, but otherwise randomly without replacement) as the "scribe." The scribe's main duty will be to prepare a clearly-written version of their lecture notes using the LaTeX template provided. Serving as a scribe is a requirement: you can expect to serve as a scribe around three or four times throughout the semester, depending on enrollment. The scribe will need to send me their notes as a `.tex` file within five business days of their appointment, so that I can post them on the course website in a timely manner. No unexcused late submissions will be accepted.

- **Midterm Oral Exam (15%)**. There will be a 20 minute midterm oral exam. The exam will consist of a discussion on two course topics (spanning both lectures and written assignments): one of your choosing, and one of my choosing. The goal of this exam will be assess your knowledge of definitions, main results, and proof sketches. The exam will take place in my office at individually-scheduled time slots on or around March 18th, 2026. There will be no class meeting on the day of the exam.

- **Homework Assignments (30%)**. There will be (a target of) six homework assignments throughout the semester. You will need to upload your assignments, as a single `.pdf` files, electronically through Canvas. You may work individually or collaborate in groups of two: in either case, you must independently prepare and upload your individual submission. If you choose to collaborate with someone else, you must both acknowledge each other in your individual submissions. In the interest of gaining experience with academic writing, all submissions must be typed in LaTeX. No unexcused late submissions will be accepted.

- **Final Project (40%)**. There will be no final exam. Instead, there will be a final project starting halfway through the semester. The project will consist of a literature review of a relevant topic not covered in class; the topic will be of your choosing subject to my approval. An attempt to conduct original research on your topic of choosing is welcome but not at all expected. The project deliverables are a write-up, written as an expository article (or as a research paper, if you attempt and succeed at conducting original research), and an expository

presentation to your classmates and me. You may work individually or collaborate in groups of two. If you choose to collaborate with someone else, the two of you must commit to the collaboration upon my approval of your topic of choosing. Only one set of deliverables will be required per group.

Letter Grade Scale

Please expect to receive a letter grade according to the scale in Table 1. This class is not designed

Letter Grade	Score Interval	Catalog Description
A	$[93, 100]$	Excellent performance
$A-$	$[90, 93)$	Excellent performance
$B+$	$[87, 90)$	Good performance
B	$[83, 87)$	Good performance
$B-$	$[80, 83)$	Good performance
$C+$	$[77, 80)$	Competent performance
C	$[73, 77)$	Competent performance
$C-$	$[70, 73)$	Competent performance
$D+$	$[67, 70)$	Minimum passing performance
D	$[63, 67)$	Minimum passing performance
$D-$	$[60, 63)$	Minimum passing performance
F	$[0, 60)$	Course failure (no credit allowed)

Table 1: Grading scale.

as a competition, and therefore I do not believe your grade should be tied to the grades of other students. I reserve the right to implement a grading curve if an extraordinary need arises, but you should not expect this to be the case. If applicable, please keep in mind how this grading scale aligns with the requirements of your degree program.

Academic Integrity

You are capable of meeting the expectations of this course. If you are concerned about how well you are doing in this course, please contact me instead of engaging in academic misconduct.

Academic misconduct involves misrepresenting any work you submit for grading as your own when it is not. You are encouraged to discuss the material with your classmates, but any work you submit for grading must ultimately be your own. Please review the CU Denver Student Code of Conduct, and in particular its guidelines on academic integrity. Any departure from the Student Code of Conduct will be handled in full accordance with established University guidelines.

The use of large language models (LLMs) or generative artificial intelligence (AI) products, including but not limited to ChatGPT, Copilot,Gemini, and Claude, for graded course components without prior approval constitutes an academic integrity violation. Besides any academic misconduct implications, as a general suggestion, I encourage you to avoid the use of these products for any material you are in the process of learning. Not doing so puts you at risk of being unable to critically reason about correctness: I believe this is one of the main value propositions of a college education.

Tentative Schedule

The following schedule is tentative. The specific topics may be adjusted based on progress, interests, and unforeseen circumstances.

1. *Jan 19 – 25.* Course organization, introduction.

2. *Jan 26 – Feb 1.* Combinatorial arguments.

3. *Feb 2 – 8.* Combinatorial arguments (continued).

4. *Feb 9 – 15.* Recurrence relations.

5. *Feb 16 – 22.* Recurrence relations (continued), inclusion-exclusion.

6. *Feb 23 – Mar 1.* Inclusion-exclusion (continued), graphs.

7. *Mar 2 – 8.* Matchings, **Final Project Topic Selection (Mar 6)**.

8. *Mar 9 – 15.* Matchings (continued), connectivity.

9. *Mar 16 – 22.* Connectivity (continued), **Midterm Oral Exam (20%, Mar 18).**

10. *Mar 23 – 29.* Spring break (Mar 23 – 29).

11. *Mar 30 – Apr 5.* Connectivity (continued), coloring.

12. *Apr 6 – 12.* Coloring (continued)

13. *Apr 13 – 19.* Planar graphs.

14. *Apr 20 – 26.* Planar graphs (continued).

15. *Apr 27 – May 3.* Spectral arguments.

16. *May 4 – 10.* Interdisciplinary connections.

17. *May 11 – 17.* **Final Project (40%, finals week, May 11 – 16).**

University of Colorado Denver

Spring 2026 - Main Session (16 weeks)

All deadlines are 11:59 PM MT unless otherwise indicated.

Main Session	Date	Important Notes
First day to apply for Spring Graduation via UCDAccess.	November 3, 2025	
Priority Registration begins for Spring Semester via UCDAccess.	Nov. 3, 2025 - Nov. 18, 2025	Check UCDAccess for your specific registration date and time assignment. For best course selection, register as soon as possible after your registration time assignment.
Open enrollment begins.	November 19, 2025	
Martin Luther King Jr. Holiday	January 19, 2026	No classes. Campus closed.
First day of Spring semester classes.	January 20, 2026	
Last day to waitlist classes using UCDAccess.	January 25, 2026	
Last day to drop a class without a $100 drop charge.	January 26, 2026	All waitlists will be eliminated today.
First day instructor approval may be required to add some classes.	January 26, 2026	If unable to enroll in UCDAccess because "Instructor Consent is Required", obtain instructor approval on a Schedule Adjustment Form.
Census Day	February 4, 2026	Deadline time is 5:00 PM MT.
Last Day to add classes in UCDAccess.	February 4, 2026	Deadline time is 5:00 PM MT.
Last day to add classes with instructor consent on the Schedule Adjustment form.	February 4, 2026	If unable to enroll in UCDAccess because "Instructor Consent is Required", obtain instructor approval on a Schedule Adjustment Form. Deadline time is 5:00 PM MT.
Last day to drop classes with a financial adjustment.	February 4, 2026	Deadline time is 5:00 PM MT.
Classes dropped after this date will appear on your transcript with a grade of 'W'.	February 4, 2026	Deadline time is 5:00 PM MT.
Full tuition will be charged for additional classes added after this date.	February 4, 2026	College Opportunity Fund hours will not be deducted from eligible student's lifetime hours. Deadline time is 5:00 PM MT.
Last day to apply for Spring graduation via UCDAccess.	February 4, 2026	Deadline time is 5:00 PM MT. After this date, contact your advisor.
Last day to request to Opt Out of Grade Forgiveness.	February 4, 2026	Refer to the Grade Forgiveness Opt Out form for restrictions. Deadline time is 5:00 PM MT.

Event	Date	Notes
Priority Registration begins for Summer Semester via UCDAccess.	March 2, 2026 - March 17, 2026	Check UCDAccess for your specific registration date and time assignment. For best course selection, register as soon as possible after your registration time assignment.
Open enrollment begins for Summer Semester.	March 18, 2026	
Spring Break	March 23, 2026 - March 29, 2026	No classes. Campus open.
Priority Registration begins for Fall Semester via UCDAccess.	April 1, 2026 - April 16, 2026	Check UCDAccess for your specific registration date and time assignment. For best course selection, register as soon as possible after your registration time assignment.
Last day to withdraw from a class via UCDAccess.	April 5, 2026	
Last day to request No Credit or Pass/Fail grade for a class.	April 5, 2026	Graduate degree students can exercise the P+/P/F option for undergraduate courses only. Graduate students should consult their school or college regarding the P+/P/F option. A grade of P+/P/S will not be acceptable for graduate credit to satisfy any graduate education requirement.
First day to withdraw from a class with a Late Withdrawal Petition form.	April 6, 2026	
Open enrollment begins for Fall Semester.	April 17, 2026	
Last day to withdraw from a class with a Late Withdrawal Petition form.	May 6, 2026	
Finals week.	May 11, 2026 - May 16, 2026	
End of semester - Commencement.	May 16, 2026	
Final grades available on UCDAccess and transcripts (tentative).	May 21, 2026	
Spring degrees posted on UCDAccess and transcripts (tentative).	June 16, 2026	This is the date your degree will be recorded on your transcript; diplomas begin mailing on July 5th.

Spring 2026 - 1st and 2nd Eight-Week Sessions

University of Colorado **Denver**

All deadlines are 11:59 PM MT unless otherwise indicated.

First Eight-Week Session	Date	Important Notes
First day of Spring first eight-week session.	January 20, 2026	
Census Day	January 27, 2026	Deadline time is 5:00 PM MT.
Last day to add first eight-week session classes using UCDAccess.	January 27, 2026	Deadline time is 5:00 PM MT.
Last day to drop a first eight-week session class without paying for the course and a 'W' on the transcript.	January 27, 2026	Deadline time is 5:00 PM MT.
Last day to withdraw from a first eight-week session class via UCDAccess.	February 20, 2026	
Last day to request No Credit or Pass/Fail grade for a Spring first eight-week session class.	February 20, 2026	See Main Session Calendar for special graduate student notes.
First day to withdraw from a class with a Late Withdrawal Petition form.	February 21, 2026	
Last day to withdraw from a class with a Late Withdrawal Petition form.	March 4, 2026	
End of first eight-week session.	March 13, 2026	

Second Eight-Week Session	Date	Important Notes
First day of Spring second eight-week session.	March 16, 2026	
Census Day	March 23, 2026	Deadline time is 5:00 PM MT.
Last day to add a Spring second eight-week session classes using UCDAccess.	March 23, 2026	Deadline time is 5:00 PM MT.
Last day to drop a second eight-week session class without paying for the course and a 'W' recorded on the transcript.	March 23, 2026	Deadline time is 5:00 PM MT.
Spring Break	March 23, 2026 - March 29, 2026	No classes. Campus open.
Last day to withdraw from a second eight-week session class via UCDAccess.	April 23, 2026	
Last day to request No Credit or Pass/Fail grade for a Spring second eight-week session class.	April 23, 2026	See Main Session Calendar for special graduate student notes.
First day to withdraw from a class with a Late Withdrawal Petition form.	April 24, 2026	
Last day to withdraw from a class with a Late Withdrawal Petition form.	May 6, 2026	
End of second eight-week session.	May 16, 2026	

University of Colorado **Denver**

Spring 2026 - 1st, 2nd, and 3rd Five-Week Sessions

All deadlines are 11:59 PM MT unless otherwise indicated.

First Five-Week Session	Date	Important Notes
First day of Spring first five-week session.	January 20, 2026	
Census Day	January 23, 2026	Deadline time is 5:00 PM MT.
Last day to add Spring first five-week session classes using UCDAccess.	January 23, 2026	Deadline time is 5:00 PM MT.
Last day to drop a Spring first five-week session class without paying for the course and a 'W' on the transcript.	January 23, 2026	Deadline time is 5:00 PM MT.
Last day to withdraw from a first five-week session class via UCDAccess.	February 9, 2026	
Last day to request No Credit or Pass/Fail grade for a Spring first five-week course.	February 9, 2026	See Main Session Calendar for special graduate student notes on Pass/Fail.
End of first five-week session.	February 20, 2026	

Second Five-Week Session	Date	Important Notes
First day of Spring second five-week session.	February 23, 2026	
Census Day	February 27, 2026	Deadline time is 5:00 PM MT.
Last day to add Spring first second-week session classes using UCDAccess.	February 27, 2026	Deadline time is 5:00 PM MT.
Last day to drop a Spring second five-week session class without paying for the course and a 'W' on the transcript.	February 27, 2026	Deadline time is 5:00 PM MT.
Last day to withdraw from a Spring second five-week session class via UCDAccess.	March 13, 2026	
Last day to request No Credit or Pass/Fail grade for a class.	March 13, 2026	See Main Session Calendar for special graduate student notes on Pass/Fail.
Spring Break	March 23 - 29, 2026	
End of second five-week session.	April 4, 2026	

Third Five-Week Session		Important Notes
First day of Spring third five-week session.	April 6, 2026	
Census Day	April 10, 2026	Deadline time is 5:00 PM MT.
Last day to add Spring third five-week session classes using UCDAccess.	April 10, 2026	Deadline time is 5:00 PM MT.
Last day to drop a third five-week session class without paying for the course and a 'W' on the transcript.	April 10, 2026	Deadline time is 5:00 PM MT.
Last day to withdraw from a third five-week session class via UCDAccess.	April 24, 2026	
Last day to request No Credit or Pass/Fail grade for a Spring third five-week session class.	April 24, 2026	See Main Session Calendar for special graduate student notes on Pass/Fail.
End of third five-week session.	May 9, 2026	

SEE MAIN SESSION CALENDAR FOR GLOBAL DEADLINES AND DATES THAT APPLY TO ALL SPRING SESSIONS

Important Information

Refer to the Residency website for important deadlines pertaining to In-State Tuition Rate qualification.

Refer to the College Opportunity Fund (COF) website for important deadlines pertaining to the COF stipend for eligible undergraduate students paying in-state tuition.

Additional Billing/Financial Information: Students are responsible for complying with tuition/fees deadlines. All registered students must access their student account and billing information through UCDAccess. You will also receive an electronic bill to your university email account.

Intensive and Module classes require the same amount of work and number of classroom hours as full-term classes. Intensive classes are less than five weeks. Module classes last five or more weeks, but less than full term. Module/intensive classes may be added up until the first day of the class. After the first day of class, late starting module or intensive classes may be added with the instructor's signature approval. Instructor approval is not required to drop the class within the first 15% of class meetings.

University, college, and department policies

Academic Calendar

For university deadlines and procedures (such as the last day to withdraw from a course), please see the Academic Calendar. https://www.ucdenver.edu/student/calendars/academic/

Academic Support

Instructor office hours or other appointments are the best way to get additional help. I'm happy to help with questions not answered during class, additional explanation, or homework assistance.

Other sources of support are

- The Math and Stat Support office is located in the Learning Commons Building Room 1225 and regularly offers CU Denver students free drop-in assistance. Hours of operation, zoom links for virtual options, and other forms of support for mathematics and statistics courses are available on the Math and Stat Support webpage.

  https://clas.ucdenver.edu/mathematical-and-statistical-sciences/math-and-stat-support

- The Learning Resources Center (LRC) provides individual and group tutoring, Supplemental Instruction (SI), study skills workshops, and ESL support.

  https://www.ucdenver.edu/learning-resources-center

- The College of Liberal Arts and Sciences has a summary of campus academic support and school/college advising offices.

  https://clas.ucdenver.edu/faculty-staff/content/clas-academic-policies-deadlines

Recording of Class Meetings

Class meetings held on or streamed over a video conferencing platform (such as Zoom, Microsoft Teams, etc) may be recorded and posted for all members of the class. Student participation and interaction may be included in the recording. If you have any concerns about this, please contact the instructor.

Diversity Statement

It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture, etc. I would like to create a learning environment for my students that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, etc). To help accomplish this:

- If you have a name and/or set of pronouns that differ from those that appear in your official records, please let me know!

- If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come and talk with me. I want to be a resource for you. Remember that you can also submit anonymous feedback (which will lead to me making a general announcement to the class, if necessary to address your concerns). If you prefer to speak with someone outside of the course, the Office of Diversity, Equity and Inclusion, is an excellent resource.

- I (like many people) am still in the process of learning about diverse perspectives and identities. If something was said in class (by anyone) that made you feel uncomfortable, including by me, please talk to me about it. (Again, anonymous feedback is always an option).

Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups. In addition, if any of our class meetings conflict with your religious or other cultural events, please let me know so that we can make arrangements for you.

Health and Wellness

As a student, you may experience a range of challenges that can interfere with learning, such as strained relationships, traumas, increased anxiety, substance use, feeling down, difficulty concentrating, and/or lack of motivation. These mental health concerns or stressful events may diminish your academic performance and/or reduce your ability to participate in daily activities. If you or someone you know is struggling, you can find supportive campus and community resources at the Health Center at Auraria or the CU Denver Counseling Center. On weekends, holidays or after-hours you can contact the 24/7 Mental Health Crisis and Victim Assistance Line at 303-615-9911.

The University of Colorado Denver is committed the health and well-being of all students. We recognize that diminished mental health, including significant stress, mood changes, excessive worry, or problems with eating and/or sleeping can interfere with optimal academic performance. The source of such symptoms can be quite varied, and include experiences of trauma (such as sexual and relationship violence, stalking, discrimination, crimes, and accidents), responses to course work, family worries, loss, personal struggle, or crisis. If you or someone you know is struggling, you can find supportive campus and community resources at

https://www.ucdenver.edu/counseling-center

or by calling the CU Denver Counseling Center (303-315-7270) or the Health Center at Auraria (303-615-9999). On weekends, holidays or after-hours you can contact the 24/7 Mental Health Crisis and Victim Assistance Line at 303-615-9911.

Disability Accommodation and Access

The University of Colorado Denver is committed to ensuring the full participation of all students in its programs, including students with disabilities. If you have a disability or think you have a disability and need accommodations to succeed in this course, I encourage you to contact Disability Resources and Services (DRS) and/or speak with me as soon as you can. DRS is located in Student Commons Building Suite 2116, and can be reached at disabilityresources@ucdenver.edu and online at https://www.ucdenver.edu/offices/disability-resources-and-services. I am committed to providing equal access as required by federal law, and I am interested in developing strategies for your success in this course.

Nondiscrimination and Sexual Misconduct

The University of Colorado Denver is committed to maintaining a positive learning, working and living environment. University policy and Title IX prohibit discrimination on the basis of race, color, national origin, sex, age, disability, pregnancy, creed, religion, sexual orientation, veteran status, gender identity, gender expression, political philosophy or political affiliation in admission and access to, and treatment and employment in, its educational programs and activities. University policy prohibits sexual misconduct, including harassment, domestic and dating violence, sexual assault, stalking, or related retaliation. If you have experienced any sort of sexual misconduct or discrimination, please visit the Office of Equity web site at https://www.ucdenver.edu/offices/equity to understand the resources available to you or contact the Office of Equity/Title IX Coordinator at equity@ucdenver.edu.

Please note that I am a Responsible Employee, which means that if I witness or receive information regarding possible prohibited protected characteristic discrimination or harassment, any form of sexual misconduct, and/or related retaliation, I am required to promptly report the information to the Office of Equity or their designee.

Religious Holiday Accommodation

Faculty in the University of Colorado system provide reasonable accommodations to students who must be absent from classes because of religious holidays. If you will miss class or graded assignments in order to observe religious holidays, you must contact me with all course conflicts by the end of the first week of classes.

Student Code of Conduct

As members of the University community, students are expected to uphold university standards, which include abiding by state civil and criminal laws and all University policies and standards of conduct. These standards are outlined in the student code of conduct, which can be found at https://www.ucdenver.edu/student/wellness/student-conduct

Academic Honesty

Students are expected to know, understand, and comply with the ethical standards of the university. A university's reputation is built on a standing tradition of excellence and scholastic integrity. As members of the University of Colorado Denver academic community, faculty and students accept the responsibility to maintain the highest standards of intellectual honesty and ethical conduct.

Academic dishonesty is defined as a student's use of unauthorized assistance with intent to deceive an instructor or other such person who may be assigned to evaluate the student's work in meeting course and degree requirements.

This course assumes your knowledge of the policies and definitions. University policies allow the instructor to decide how to respond to an ethics violation, whether by lowering the assignment grade, lowering the course grade, and/or filing charges against the student with the campus Office of Student Conduct. For more information regarding the Office of Student Conduct policies and procedures, please refer to https://www.ucdenver.edu/student/wellness/student-conduct/academic-integrity. Violating the academic honor code can lead to expulsion from the University.

Examples of academic dishonesty include, but are not limited to, the following:

Plagiarism.   Plagiarism is the use of another person's distinctive words or ideas without acknowledgment. Examples include:

1. Word-for-word copying of another person's ideas or words;
2. The mosaic (the interspersing of one's own words here and there while, in essence, copying another's work);
3. The paraphrase (the rewriting of another's work, yet still using their fundamental idea or theory);
4. Fabrication of references (inventing or counterfeiting sources);
5. Submission of another's work as one's own;
6. Neglecting quotation marks on material that is otherwise acknowledged.

Acknowledgment is not necessary when the material used is common knowledge.

Cheating.   Cheating involves the possession, communication, or use of information, materials, notes, study aids or other devices not authorized by the instructor in an academic exercise, or communication with another person during such an exercise. Examples include:

1. Copying from another's paper or receiving unauthorized assistance from another during an academic exercise or in the submission of academic material;
2. Using a calculator when its use has been disallowed;
3. Collaborating with another student or students during an academic exercise without the consent of the instructor.

Note on use of Generative AI.   Generative AI tools such as ChatGPT may not be used on exams, tests, or quizzes that do not permit the use of outside resources. The instructor will provide guidelines on whether such tools can be used for assignments and projects.

Fabrication and Falsification.   Fabrication involves inventing or counterfeiting information, i.e., creating results not obtained in a study or laboratory experiment. Falsification, on the other hand, involves the deliberate alteration of results to suit one's needs in an experiment or other academic exercise.

Multiple Submissions.   This is the submission of academic work for which academic credit has already been earned, when such submission is made without instructor authorization.

Misuse of Academic Materials.   The misuse of academic materials includes, but is not limited to, the following:

1. Stealing or destroying library or reference materials or computer programs;
2. Stealing or destroying another student's notes or materials, or having such materials in one's possession without the owner's permission;
3. Receiving assistance in locating or using sources of information in an assignment when such assistance has been forbidden by the instructor;
4. Illegitimate possession, disposition, or use of examinations or answer keys to examinations;
5. Unauthorized alteration, forgery, or falsification;
6. Unauthorized sale or purchase of examinations, papers, or assignments.

Complicity in Academic Dishonesty.   Complicity involves knowingly contributing to another's acts of academic dishonesty. Examples include:

1. Knowingly aiding another in any act of academic dishonesty;
2. Allowing another to copy from one's paper for an assignment or exam;
3. Distributing test questions or information about the materials to be tested before the scheduled exercise;
4. Taking an exam or test for someone else;
5. Signing another's name on attendance roster or on an academic exercise.

Incomplete Policy

When a student has special circumstances that make it impossible to complete course assignments, faculty members may choose to award an incomplete grade. All incomplete courses are assigned a grade of Incomplete (I). Incomplete grades are not awarded for poor academic performance or as a way of extending assignment deadlines. Faculty are not required to award an Incomplete.

To be eligible for an Incomplete grade, students MUST:

- Have participated in the class for a significant proportion of the term.
- Have successfully completed a significant proportion of the course assignments.
- Have special circumstances (verification may be required) that preclude the student from attending class and/or completing graded assignments.
- Make arrangements to complete missing assignments with the original instructor by a mutually agreed upon date but within one calendar year. Note that it is not the instructor's responsibility to teach the student missed material.
- Both the instructor and student should complete and sign a Course Completion Agreement found at

    https://clas.ucdenver.edu/faculty-staff/content/incomplete-grade-policy

- The instructor gives a copy of the signed Course Completion Agreement to the department.

Incompletes cannot:

- require a student to repeat the entire course,
- repeat or replace existing grades,
- allow the student an indeterminate period of time to complete a course, or
- allow the student to repeat the course with a different instructor.

Student Grievances

Students who have concerns about the course or instructor should first contact the instructor to discuss the issue. If the issue is not resolved, the student should next contact the Associate Chair of the Department of Mathematical and Statistical Sciences (currently Stephen Hartke <stephen.hartke@ucdenver.edu>). If not satisfied, the student should then appeal to the appropriate Associate Dean of the student's home school or college (for CLAS, this is the Associate Dean for Student Success). No step in this process should be skipped.

STUDENT SUPPORT

CARE Team is there for you
Call 303-352-3579 if you
or a classmate needs extra help
Submit a concern at
http://www.ucdenver.edu/care

Call 911 in case of emergency
Auraria Campus Police: 303-556-5000

CAREER COUNSELING at LYNXCONNECT
ucdenver.edu/careercenter - Tivoli 339
303-315-7315 - CareerCenter@ucdenver.edu

COUNSELING CENTER
ucdenver.edu/counselingcenter - Tivoli 454 (4th floor)
303-315-7270 (*Emergency After-Hours: 303-615-9911*)

DISABILITY RESOURCES & SERVICES
ucdenver.edu/offices/disability-resources-and-services
 Student Commons 2116
303-315-3510 - disabilityresources@ucdenver.edu

OFFICE OF EQUITY
ucdenver.edu/equity - Lawrence Street Center 12th floor
303-315-2567 – equity@ucdenver.edu

PHOENIX CENTER AT AURARIA
24/7 Free and Confidential Helpline: 303-556-2255
Info on interpersonal violence, referrals, options, & next steps
www.thepca.org - Tivoli 227 - 303-315-7250 - info@thepca.org

FREE TUTORING
Contact these services for academic assistance throughout the semester

LEARNING RESOURCES CENTER
ucdenver.edu/lrc – Learning Commons Suite 1231
303-315-3531 - LRC@ucdenver.edu

MATH AND STAT SUPPORT
Learning Commons Room 1225
clas.ucdenver.edu/mathematical-and-statistical-sciences/math-and-stat-support

WRITING CENTER
writingcenter.ucdenver.edu - Learning Commons First Floor

UNDERGRADUATE ACADEMIC ADVISING
ucdenver.edu/undergradadvising

Graduate students: contact your graduate program directly for advising information

ARCHITECTURE AND PLANNING (CAP) ADVISING
CU Building 2000
303-315-1000 - cap@ucdenver.edu

ARTS AND MEDIA (CAM) ADVISING
Arts Building 177
303-315-7400 - camadvising@ucdenver.edu

BUSINESS SCHOOL ADVISING
15th and Lawrence Street, 4th floor
303-315-8110 – undergrad.advising@ucdenver.edu

CENTER FOR UNDERGRADUATE EXPLORATION & ADVISING (CUE&A)
Student Commons 1113
303-315-1940 - cuea@ucdenver.edu

EDUCATION & HUMAN DEVELOPMENT (SEHD) ADVISING
Lawrence Street Center 701
303-315-6300 - education@ucdenver.edu

ENGINEERING, DESIGN & COMPUTING (CEDC) ADVISING
North Classroom 3034
303-315-7170 - engineering@ucdenver.edu

LIBERAL ARTS AND SCIENCES (CLAS) ADVISING
North Classroom 1030
303-315-7100 – clas_advising@ucdenver.edu

PUBLIC AFFAIRS (SPA) ADVISING
Lawrence Street Center 525
303-315-2228 – spa.advising@ucdenver.edu

Plan Ahead! Review Important Dates & Deadlines
at http://ucdenver.edu/academiccalendar