CSC 244 – Discrete Math for Computer Science II

Fall 2023

MWF 1:00-1:50 PM
Integrated Learning Center, Rm 120

Description of Course

This course builds on what was learned in 144 to further the student's knowledge about the mathematics used in computer science. The student learns how to form logical arguments and then to express them as clear proofs. Then the student learns advanced counting techniques depending on recurrence relations and proof by inductions. Graphs, which are used throughout computer science, are studied as well. Lastly, the course introduces computational theory. Finite automata and regular expressions are defined and explored. Turing Machines are introduced as well.

Catalog Description:

A second course in mathematical concepts for computer science. Topics include: recurrence relations; proofs in propositional and first-order predicate logic; mathematical induction; graphs and trees; regular expressions and finite state machines.

Course Prerequisites

C or better in CSC 120 and [C or better in CSC 144 or MATH 243 or MATH 323].

Instructor and Contact Information

Reyan Ahmed

abureyanahmed@arizona.edu

Office: GS 846

Office Hours: Office hours will start in the second week of the semester, and the schedule will be posted on Piazza (https://piazza.com/arizona/fall2023/csc244).

The scheduled office hours are times where you can just show up to discuss anything pertinent to the course–e.g. get help on assignments, understanding concepts from class, discussing grades, etc.

I am also available by appointment, but *please try to come to the scheduled times whenever possible.* If you need to set up a special appointment, send me an email with three possible times.

TA Information: The list of TAs and their office hours will be provided on Piazza.

Course Format and Teaching Methods

Besides the scheduled lectures there will be no lab. However, in the lecture sessions there will be in class assignments. This is one reason to attend the lectures. Absence in the lecture sessions without an unavoidable reason is not allowed. If for any unavoidable reason, you miss any lecture, go through the readings, recordings, and slides. If you still face any trouble contact the instructor. Besides class activities, there will be homeworks

almost each week and exams as discussed below.

Obtaining Help

- **Academic advising:** If you have questions about your academic progress this semester, or your chosen degree program, consider contacting your department's academic advisor(s). Your academic advisor and the Advising Resource Center can guide you toward university resources to help you succeed. **Computer Science major students** are encouraged to visit https://www.cs.arizona.edu/undergraduate/advising for advisor contact information.
- **CS Help Desk:** The Computer Science IT team can help students with department technology issues including logging into/resetting your Lectura account, printing in the 930 lab, etc. You can submit a ticket for help by visiting the Computer Science Lab Helpdesk (requires UA login).
- **Life challenges:** If you are experiencing unexpected barriers to your success in your courses, please note the Dean of Students Office is a central support resource for all students and may be helpful. The Dean of Students Office can be reached at 520-621-7057 or DOS-deanofstudents@email.arizona.edu.
- **Physical and mental-health challenges**: If you are facing physical or mental health challenges this semester, please note that Campus Health provides quality medical and mental health care. For medical appointments, call (520)-621-9202. For After Hours care, call (520) 570-7898. For the Counseling & Psych Services (CAPS) 24/7 hotline, call (520) 621-3334.
- **UA Ombuds**: The UA Ombuds Office (https://ombuds.arizona.edu/) helps with a wide variety of issues, concerns, questions, conflicts, and challenges. The primary mission of the Ombuds Program is to assist individuals in resolving conflict, facilitating communication, and assisting the University by surfacing issues and providing feedback on emerging or systemic concerns. Communications with the Ombuds Committee are informal and off-the-record. The Ombuds Committee is governed by the following standards: (1) Confidentiality; (2) Impartiality: (3) Informality; and (4) Independence.
- **CS Tutor Center:** The Department of Computer Science offers FREE tutoring for students enrolled in CSC courses. You can view tutor schedules and sign up for tutoring sessions by visiting our CS Tutoring Page.

Class Recordings

Students must access content in D2L only. Students may not modify content or re-use content for any purpose other than personal educational reasons. All recordings are subject to government and university regulations. Therefore, students accessing unauthorized recordings or using them in a manner inconsistent with UArizona values and educational policies (Code of Academic Integrity and the Student Code of Conduct) are also subject to civil action.

Course Objectives

- Learn the different structures of proofs.
- Learn to write correct, well formatted proofs.
- Learn how to use, solve, and prove recurrence relations.
- Learn basic terminology and structure of graphs and trees.
- Learn special cases of graphs and trees and practical algorithms used with them.
- Learn the basics of Regular Languages and how they can be represented by DFAs and Regular Expressions.
- Learn the basics of Turing Machines and get an idea of computational complexity.

Expected Learning Outcomes

Students will be able to:

1. Apply the pigeonhole principle in the context of a formal proof.
2. Solve a variety of basic recurrence relations.
3. Analyze a problem to determine underlying recurrence relations.
4. Use the rules of inference to construct proofs in propositional and predicate logic.
5. Apply formal logic proofs and/or informal, but rigorous, logical reasoning to real problems, such as predicting the behavior of software or solving problems such as puzzles.
6. Differentiate between and apply each of the proof techniques covered in this course (direct, contradiction, and induction) in the construction of a sound argument.
7. Solve problems and prove claims in a step by step fashion.
8. Explain the parallels between ideas of mathematical and/or structural induction to recursion and recursively defined structures.
9. Explain the relationship between weak and strong induction and give examples of the appropriate use of each.
10. State the well-ordering principle and its relationship to mathematical induction.
11. Illustrate by example the basic terminology of graph theory, as well as some of the properties and special cases of each type of graph/tree.
12. Model a variety of real-world problems in computer science using appropriate forms of graphs and trees, such as representing a network topology or the organization of a hierarchical file system.
13. Show how concepts from graphs and trees appear in data structures, algorithms, proof techniques (structural induction), and counting.
14. Determine if two graphs are isomorphic.
15. Design a deterministic finite state machine to accept a specified language.
16. Generate a regular expression to represent a specified language.

Absence and Class Participation Policy

If you miss the deadlines of the assignments without any unavoidable reason, you will not get any credit for those assignments. Note that, there are extra assignments in this course. For example, there are 12 weekly assignments, and the best 9 will be counted. Hence, if you miss up to 3 assignments, it is still possible to get full credits.

The UA's policy concerning Class Attendance, Participation, and Administrative Drops is available at https://catalog.arizona.edu/policy/class-attendance-and-participation

The UA policy regarding absences for any sincerely held religious belief, observance or

practice will be accommodated where reasonable: http://policy.arizona.edu/human-resources/religious-accommodation-policy.

Absences pre-approved by the UA Dean of Students (or dean's designee) will be honored. See https://deanofstudents.arizona.edu/policies/attendance-policies-and-practices

Participating in the course and attending lectures and other course events are vital to the learning process. As such, attendance is required at all lectures. Absences may affect a student's final course grade. If you anticipate being absent, are unexpectedly absent, or are unable to participate in class online activities, please contact me as soon as possible. To request a disability-related accommodation to this attendance policy, please contact the Disability Resource Center at (520) 621-3268 or drc-info@email.arizona.edu. If you are experiencing unexpected barriers to your success in your courses, the Dean of Students Office is a central support resource for all students and may be helpful. The Dean of Students Office is located in the Robert L. Nugent Building, room 100, or call 520-621-7057.

Illnesses and Emergencies

- If you feel sick, or may have been in contact with someone who is infectious, stay home. Except for seeking medical care, avoid contact with others and do not travel.
- Notify your instructor(s) if you will be missing up to one week of course meetings and/or assignment deadlines.
- If you must miss the equivalent of more than one week of class and have an emergency, the Dean of Students is the proper office to contact (DOS-deanofstudents@email.arizona.edu). The Dean of Students considers the following as qualified emergencies: the birth of a child, mental health hospitalization, domestic violence matter, house fire, hospitalization for physical health (concussion/emergency surgery/coma/COVID-19 complications/ICU), death of immediate family, Title IX matters, etc.
- Please understand that there is no guarantee of an extension when you are absent from class and/or miss a deadline.

Makeup Policy for Students Who Register Late

If you register late for the course, you are encouraged to work through the material that you missed, but none of the work can be submitted for a grade.

Course Communications

There will be various ways that communication will take place in this course, and it is important that you keep track of all of them.

- **The Syllabus**: You are expected to be familiar with the policies in the syllabus. If you have a question about the course expectations and policies, this is the first place you should look for an answer.
- **Lectures**: Sometimes things are announced in class, so if you are not present in class, make sure you watch the videos within 48 hours of the class time.
- **Email**: If I need to contact you individually, I will do so through your UA email, so make sure you check that regularly.
- **D2L**: Announcements may be made on D2L, so make sure you check that page regularly. I recommend checking both the announcements and the calendar on a daily basis (at least during the week). You can also keep up with your grades on D2L.

- **Piazza**: Announcements may be made on Piazza, which is also used for questions and discussions *about course content*. **Please do not use Piazza to ask about grades or request a regrade.** Make sure you add yourself and check regularly for announcements. This is especially important while assignments are out as any updates or clarifications about the assignment will be announced on Piazza. Add yourself to the course by using this link: https://piazza.com/arizona/fall2023/csc244
- **Gradescope**: This site is where you will submit many of your assignments, and you should use this site for checking graded work and submitting regrade requests for those assignments. Exams will also be graded on Gradescope. A link to Gradescope is here: https://www.gradescope.com. You should be added to the course automatically, but if you are not, let me know, and I will sync the roster again.

Required Texts or Readings

We are using an inclusive access text for this course. In D2L, go to Content→ VitalSource Inclusive Access→eTextBook→Read Now. You should also have received an email regarding the book.

The book is: *Discrete Mathematics and Its Applications,* Eighth Edition, by Kenneth H. Rosen, ISBN # 978-1-259-67651-2.

Required or Special Materials

Some of the in-class activities may require a phone or another device that can access the Internet. However, these particular assignments are not for regular points.

Assignments and Examinations: Schedule/Due Dates

In-class Assignments (10 points)

There will be various in-class assignments. These are not in the schedule, so you are encouraged to come to class regularly. Submitting these assignments will be a lot easier if you attend the class in person, and they cannot be made up for any reason. There will be at least 12 points possible in this category, and you can earn up to 10 points in the category. Note that some of these assignments may be graded for completion, and some may be graded for accuracy.

Homework (45 points)

There will be 10-12 written homework assignments, each worth 5 points. They must be submitted on Gradescope as a single PDF, and they will not be accepted late for any reason. **Do not submit separate images on Gradescope. You can put images of your work into a single PDF and submit that, but it must be a single PDF. If you do not follow these instructions, we will not automatically deduct any points. However, it is at your own risk as students tend to have more submission problems with the image option than with the PDF option.** Note that there are actually more than 45 points available in this category, and you can earn up to 45, so there is some flexibility in case you miss an assignment. In most cases, some homework problems will be graded for completion and some for accuracy. You should always check the feedback after the homework is graded; if your answer is correct, then there will be no feedback and you will get the full credit. Homework is released at the beginning of the week and is due at the beginning of the next week (Monday 5:00 PM).

Midterms (30 points)

There will be two midterms given during class. They are already scheduled (see the

schedule below), so please plan accordingly. These are in-person exams and makeups will only be given in the case of an emergency that is verified by an official letter from the Dean of Students Office. Each midterm is worth 15 points.

Final (15 points).
The final exam will be on Monday, December 11, 2023 from 1-3 PM in our regular classroom. It will be in person and comprehensive.

Extra Credit Opportunities. I sometimes provide various extra credit opportunities throughout the semester. Most of these are just announced as they come up, but one of them is explained below and is ongoing throughout the semester.

Each student has the opportunity to receive up to 2.5 extra credit points for "course engagement." These points can be earned by

- *meaningful in-class participation*: Ask a good question, make an insightful comment, or answer a challenging question. (Note: Not every question/answer/comment will be awarded points, but if you are showing that you are actively engaged, you are likely to receive a point.)
- *office hour participation*: To encourage you to keep up with the material and get help when you need it, you can earn a single extra credit point just by showing up and participating in instructor/TA office hours. Participation must be active in some way (i.e. showing up for a minute and then leaving without engaging is not going to earn you any points). Even if you do not have specific questions, you can show up and "check in" regarding your understanding of the assignments and the course materials. Both I and the TAs will keep track of office hour attendance, and you can earn 1 point per session.
- *Answering student questions on Piazza*: If you answer another student's question on Piazza in an *accurate* and *helpful* way, you can receive a participation point.
- NOTE: You are limited to 1 point per class/office hour session.
- NOTE: We do our best to keep track of all of this stuff, but mistakes do happen especially when office hours get busy or there is a lot going in class. If you believe you have not received credit for something, please let us know. For example, if you participate in class and I forget to get your name, let me know right after class and I can remedy the mistake.

Final Examination

The final exam will be on Monday, December 11, 2023, 1 - 3 PM.
Regulations and Final Exam Schedule:
https://registrar.arizona.edu/faculty-staff-resources/room-course-scheduling/schedule-classes/final-exams/final-exams-fall-2023

Grading Scale and Policies

Final grades will be determined by the number of points you earn throughout the course. The following lists the number of points possible in each category.

Category	Points Possible	Points Available
In-class Assignments	10	12+
Homework (HW)	45	50+
Midterms (MT)	30	30+
Final Exam (FE)	15	15+

Note: + indicates "at least"

The grading scale is given below. Adjustments to this scale may be made at the end of the semester, but you should not depend upon that. Any adjustments would lower grade cutoffs. No grade cutoffs will be raised.

Total Points	Letter Grade
90+	A
80-89.99	B
70-79.99	C
60-69.99	D
0-59.99	E

Department of Computer Science Grading Policy:

1. Instructors will explicitly promise when every assignment and exam will be graded and returned to students. These promised dates will appear in the syllabus, associated with the corresponding due dates and exam dates.
2. Graded homework will be returned before the next homework is due.
3. Exams will be returned "promptly", as defined by the instructor (and as promised in the syllabus).
4. Grading delays beyond promised return-by dates will be announced as soon as possible with an explanation for the delay.

Grading Times

- The in class assignments will be due at the end of the day.
- The weekly homeworks will be due on Mondays, there are some exceptions as discussed below.
- Both in class assignments and weekly homeworks will be graded in a week. For example, if the assignment/homework is due on Monday, 2nd October, 2023, then it will be graded by the following Monday, 9th October, 2023.
- The assignments and homeworks will be released in a fashion that the students will get them back before the corresponding midterm exams. The exams will be graded in a week as well.

Incomplete (I) or Withdrawal (W):

Requests for incomplete (I) or withdrawal (W) must be made in accordance with University policies, which are available at http://catalog.arizona.edu/policy/grades-and-grading-system#incomplete and http://catalog.arizona.edu/policy/grades-and-grading-system#Withdrawal respectively.

Dispute of Grade Policy: In order for us to keep the D2L gradebook accurate and up to date, it is important for any grade disputes or regrade requests to be done in a timely manner, so the deadline for making a regrade request on a particular assignment is 72 hours after the grades are released.

Please note:

- Piazza should never be used for regrade requests or any other discussion about grades.
- If an assignment is graded on Gradescope, you should submit a regrade request through Gradescope (one request per question).
- Please review any posted solutions before submitting a regrade request and make sure that your request clearly states why you believe the question was graded an error.

Honors Credit

Students wishing to contract this course for Honors Credit should e-mail me to set up an appointment to discuss the terms of the contact and to sign the Honors Course Contract Request Form. The form is available at http://www.honors.arizona.edu/honors-contracts

Scheduled Topics/Activities

This schedule is tentative. The official schedule is the D2L calendar and will be updated as the semester progresses.

Date	Lecture Topics	Released	Due	Reading
M 8/21	Course Overview			
W 8/23	Applications of Propositional Logic			1.2
F 8/25	Applications of Propositional Logic			1.2
M 8/28	Rules of Inference	HW 1		1.6
W 8/30	Introduction to Proofs			1.7
F 9/1	Introduction to Proofs			1.7
M 9/4	Labor Day			
T 9/5		HW 2	HW 1	
W 9/6	Proof Methods & Strategy			1.8

F 9/8	Proof Methods & Strategy			1.8
M 9/11	Proof Methods & Strategy	HW 3	HW 2	1.8
W 9/13	The Pigeonhole Principle			6.2
F 9/15	Proofs			
M 9/18	Proofs		HW 3	
W 9/20	Recurrence Relations			2.4
F 9/22	Review/Buffer Day			
M 9/25	**Midterm 1**	HW 4		
W 9/27	Recurrence Relations			8.1-8.3
F 9/29	Recurrence Relations			8.1-8.3
M 10/2	Induction & Recursion	HW 5	HW 4	5.1
W 10/4	Induction & Recursion			5.2
F 10/6	Induction & Recursion			5.3
M 10/9	Induction & Recursion	HW 6	HW 5	5.4
W 10/11	Induction & Recursion			5.5
F 10/13	Review/Buffer day			
M 10/16	Graphs & Graph Models	HW 7	HW 6	10.1
W 10/18	Graph Terminology & Special Types of Graphs			10.2
F 10/20	Representing Graphs & Graph Isomorphism			10.3
M 10/23	Connectivity	HW 8	HW 7	10.4
W 10/25	Euler & Hamilton Paths			10.5
F 10/27	Graphs			10.6
M	Graphs		HW 8	10.7

10/30				
W 11/1	Introduction to Trees			11.1
F 11/3	Review/Buffer Day			
M 11/6	**Midterm 2**	HW 9		
W 11/8	Applications of Trees			11.2
F 11/10	Veterans day			
M 11/13	Tree Traversal	HW 10	HW 9	11.3
W 11/15	Trees			11.4
F 11/17	Trees			11.5
M 11/20	Languages & Grammars	HW 11	HW 10	13.1
W 11/22	Finite-State Machines with Output			13.2
F 11/24	Thanksgiving recess			
M 11/27	Finite-State Machines with No Output	HW 12	HW 11	13.3
W 11/29	Language Recognition			13.4
F 12/1	Turing Machines		HW 12	13.5
M 12/4	Review/Buffer Day			
W 12/6	Review/Buffer Day			

Department of Computer Science Code of Conduct

The Department of Computer Science is committed to providing and maintaining a supportive educational environment for all. We strive to be welcoming and inclusive, respect privacy and confidentiality, behave respectfully and courteously, and practice intellectual honesty. Disruptive behaviors (such as physical or emotional harassment, dismissive attitudes, and abuse of department resources) will not be tolerated. The complete Code of Conduct is available on our department web site. We expect that you

will adhere to this code, as well as the UA Student Code of Conduct, while you are a member of this class.

Classroom Behavior Policy

To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (e.g., texting, chatting, reading a newspaper, making phone calls, web surfing, etc.).

Students are asked to refrain from disruptive conversations with people sitting around them during lecture. Students observed engaging in disruptive activity will be asked to cease this behavior. Those who continue to disrupt the class will be asked to leave lecture or discussion and may be reported to the Dean of Students.

Some learning styles are best served by using personal electronics, such as laptops and iPads. These devices can be distracting to other learners. Therefore, students who prefer to use electronic devices for note-taking during lecture should sit toward the back of the classroom.

Threatening Behavior Policy

The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. See http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students.

Accessibility and Accommodations

At the University of Arizona, we strive to make learning experiences as accessible as possible. If you anticipate or experience barriers based on disability or pregnancy, please contact the Disability Resource Center (520-621-3268, https://drc.arizona.edu/) to establish reasonable accommodations.

Code of Academic Integrity

Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See https://deanofstudents.arizona.edu/student-rights-responsibilities/academic-integrity .

Uploading material from this course to a website other than D2L (or the class piazza) is strictly prohibited and will be considered a violation of the course policy and a violation of the code of academic integrity. Obtaining material associated with this course (or previous offerings of this course) on a site other than D2L (or the class piazza), such as Chegg, Course Hero, etc. or accessing these sites during an exam is a violation of the code of academic integrity. Any student determined to have uploaded or accessed material in an unauthorized manner will be reported to the Dean of Students for a Code of Academic Integrity violation, with a recommended sanction of a failing grade in the course.

The University Libraries have some excellent tips for avoiding plagiarism, available at http://new.library.arizona.edu/research/citing/plagiarism.

Selling class notes and/or other course materials to other students or to a third party for resale is not permitted without the instructor's express written consent. Violations to this and other course rules are subject to the Code of Academic Integrity and may result in

course sanctions. Additionally, students who use D2L or UA e-mail to sell or buy these copyrighted materials are subject to Code of Conduct Violations for misuse of student e-mail addresses. This conduct may also constitute copyright infringement.

Specific Guidelines Regarding Academic Integrity

- Do not look for solutions to specific homework problems or projects online.
- Do not post any course materials to any websites.
- Do not share solutions with another student or read another student's solutions.
- If you have a study group for the course and you are working on homework, here are some strategies to help you avoid cheating:
    - If you discuss a homework question or a project, don't write anything down during the discussion.
    - Try discussing problems that are similar to the homework/project, and once you feel comfortable with those, work on the actual assignments individually.
- Be careful what you look up online when dealing with code. Looking at actual code that solves the exact problem from the project is considered cheating.
- When in doubt, ask first!

Nondiscrimination and Anti-harassment Policy

The University of Arizona is committed to creating and maintaining an environment free of discrimination. In support of this commitment, the University prohibits discrimination, including harassment and retaliation, based on a protected classification, including race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity, or genetic information. For more information, including how to report a concern, please see http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy

Our classroom is a place where everyone is encouraged to express well-formed opinions and their reasons for those opinions. We also want to create a tolerant and open environment where such opinions can be expressed without resorting to bullying or discrimination of others.

Additional Resources for Students

UA Academic policies and procedures are available at http://catalog.arizona.edu/policies
Visit the UArizona COVID-19 page for regular updates.

Campus Health
http://www.health.arizona.edu/
Campus Health provides quality medical and mental health care services through virtual and in-person care. Voluntary, free, and convenient COVID-19 testing is available for students on Main Campus. COVID-19 vaccine is available for all students at Campus Health.
Phone: 520-621-9202

Counseling and Psych Services (CAPS)
https://health.arizona.edu/counseling-psych-services
CAPS provides mental health care, including short-term counseling services.
Phone: 520-621-3334

The Dean of Students Office's Student Assistance Program
https://deanofstudents.arizona.edu/support/student-assistance

Student Assistance helps students manage crises, life traumas, and other barriers that impede success. The staff addresses the needs of students who experience issues related to social adjustment, academic challenges, psychological health, physical health, victimization, and relationship issues, through a variety of interventions, referrals, and follow up services.
Email: DOS-deanofstudents@email.arizona.edu
Phone: 520-621-7057

Survivor Advocacy Program
https://survivoradvocacy.arizona.edu/
The Survivor Advocacy Program provides confidential support and advocacy services to student survivors of sexual and gender-based violence. The Program can also advise students about relevant non-UA resources available within the local community for support.
Email: survivoradvocacy@email.arizona.edu
Phone: 520-621-5767

Campus Pantry

Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live and believes this may affect their performance in the course, is urged to contact the Dean of Students for support. In addition, the University of Arizona Campus Pantry is open for students to receive supplemental groceries at no cost. Please see their website at: campuspantry.arizona.edu for open times.

Furthermore, please notify me if you are comfortable in doing so. This will enable me to provide any resources that I may possess.

Pronouns and Preferred Names

This course affirms people of all gender expressions and gender identities. If you prefer to be called a different name than what is on the class roster, please let me know. Feel free to correct instructors on your pronoun. If you have any questions or concerns, please do not hesitate to contact me directly in class or via email (instructor email). If you wish to change your preferred name or pronoun in the UAccess system, please use the following guidelines:

Preferred name: University of Arizona students may choose to identify themselves within the University community using a preferred first name that differs from their official/legal name. A student's preferred name will appear instead of the person's official/legal first name in select University-related systems and documents, provided that the name is not being used for the purpose of misrepresentation. Students are able to update their preferred names in UAccess.

Pronouns: Students may designate pronouns they use to identify themselves. Instructors and staff are encouraged to use pronouns for people that they use for themselves as a sign of respect and inclusion. Students are able to update and edit their pronouns in UAccess.

More information on updating your preferred name and pronouns is available on the Office of the Registrar site at https://www.registrar.arizona.edu/.

Safety on Campus and in the Classroom

For a list of emergency procedures for all types of incidents, please visit the website of the Critical Incident Response Team (CIRT):
https://cirt.arizona.edu/case-emergency/overview

Also watch the video available at
https://arizona.sabacloud.com/Saba/Web_spf/NA7P1PRD161/common/learningeventdetail/crtfy000000000003560

Confidentiality of Student Records

http://www.registrar.arizona.edu/ferpa

Land Acknowledgement Statement

We respectfully acknowledge the University of Arizona is on the land and territories of Indigenous peoples. Today, Arizona is home to 22 federally recognized tribes, with Tucson being home to the O'odham and the Yaqui. Committed to diversity and inclusion, the University strives to build sustainable relationships with sovereign Native Nations and Indigenous communities through education offerings, partnerships, and community service.

Subject to Change Statement

Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.