

# Welcome to . . .

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## CSc 144: Discrete Mathematics for CS I

Spring 2024 — Section 002

### Course Information Overview

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## Announcements

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*(Expect a slide or two of announcements at the start of each class.)*

- Handouts:
  1. **Syllabus Summary** – a fraction of the full version!
  2. **Background Survey** – distributed/collected at end
- There are two sections of CSc 144
  - This is Section 002
  - Sections 001 and 002 are **NOT** interchangeable!
    - Different profs, assignments, exams, TAs, . . .
    - Attend only the section for which you registered.

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# Catalog Info

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Class: CSc 144–002, Discrete Mathematics for Computer Science I

Credits: 3

Meets: 2:00 – 2:50 p.m. Mondays, Wednesdays, and Fridays

Room: Bio East 100

Prereqs: 'C' or better in 1st Semester Computer Programming, and  
'C' or better in College Algebra or higher

Desc: The first of a two–course sequence introducing mathematical concepts for Computer Science. Topics include: **matrices**, sets, functions, and relations; propositional and predicate logic; ~~foundational combinatorics~~; ~~discrete probability~~; modular arithmetic; and proofs.

**Final:** Friday, May 3rd, 2024, 1:00 – 3:00 p.m.

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## Instructor and UGTAs

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Instructor: Lester I. McCann, Ph.D., Professor of Practice

UGTAs: Kevin Li<sup>\*\*</sup> (Class Coordinator)

Jake Bode<sup>\*</sup> (Coordinator–in–Training)

Soumay Agarwal<sup>\*</sup>

Cumhur Aygar

Aman Dwivedi<sup>\*\*</sup>

Claire Lodermeier<sup>\*\*</sup>

Adrian Moore<sup>\*</sup>

Savannah Rabasa

MohammadHossein Rezaei<sup>\*\*</sup>

<sup>\*</sup> UGTA for CSc 144 or 245 w/ McCann previously

<sup>\*\*</sup> Took CSc 144 or 245 w/ McCann previously

# Information Resources

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Looking for class information and materials?

- [Class D2L Site](#) (textbook, links to web page content):
  - [d21.arizona.edu/d21/home/1399905](https://d21.arizona.edu/d21/home/1399905)
- [Class Web Page](#) (guided & completed slides, handouts):
  - [cs.arizona.edu/classes/cs144/spring24-002](https://cs.arizona.edu/classes/cs144/spring24-002)
- [Piazza](#) (Q&A):
  - [piazza.com/class/lqik36ra4mli8](https://piazza.com/class/lqik36ra4mli8)

We'll also have office hours (OHs) for in-person help and practice, and tutoring in the CS Tutor Center (G-S 914). Times to be announced!

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## Noteworthy Dates

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**Exams:**

- Exam #1: Friday, February 16
- Exam #2: Friday, March 22
- Exam #3: Friday, April 19
- **Final Exam:** Friday, May 3rd, **1–3 p.m.**

**No Class Meetings On:**

- Monday, January 15th (MLK Day)
- March 4th, 6th, 8th (Spring Break)

**Late Day to Withdraw:**

- Tuesday, March 26th (from individual classes)

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# Grades and Grading (1 / 5)

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## Grade Breakdown:

7 Homeworks = 28% (total; 4% each)

$n$  Quizzes = 16% (total of your best  $n = 8, 9$  or  $10$ )

3 Midterm Exams = 42% (total; 14% each)

Final Exam = 14% (comprehensive!)

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TOTAL = 100%

We do not grade on attendance or class participation, but you'll still want to attend regularly (e.g., for quizzes)

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# Grades and Grading (2 / 5)

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## Homeworks

- Typically 50 points each
- Due at the start of class one week after being assigned
  - You have three 'late days,' maximum one per homework
- Question types are mostly problem-solving
  - Though there will be some programming!
- You will submit answers as PDFs to Gradescope
  - We recommend that you word-process your answers
- Graded by the UGTAs within one week
- Regrade requests accepted for one week thereafter

**See the full version of the syllabus for the details!**

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# Grades and Grading (3 / 5)

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## Quizzes

- I plan to have 12 unannounced quizzes this semester
  - Usually given in the last 10 minutes of the period
- We'll only count your best 10, or . . .
  - . . . best 9 if class evals are submitted by  $> 50\%$  of students, or
  - . . . best 8 if class evals are submitted by  $> 66.7\%$  of students

*(This means you can miss some quizzes and still do fine.)*

- Electronic devices **may not** be used on quizzes!
- Regrade requests accepted for 1 week after grading is done

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# Grades and Grading (4 / 5)

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## Midterm Exams

- Will cover the material since the last midterm
- Question types mostly short-answer & problem-solving
- Like quizzes, electronics **may not** be used on exams
- **I do not give make-up exams!**

*(Why not? Because I replace your lowest midterm's score with a copy of your final exam's score!)*

- Graded by the class staff within two class meetings
- Regrade requests accepted for a week by email to McCann

**See the full version of the syllabus for the details!**

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# Grades and Grading (5 / 5)

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## Final Exam

- Is comprehensive (covers all topics, including math review)
- Consists of short-answer & problem-solving questions
- I review finals of students near the next-higher letter grade
  - Thus, regrade requests should not be needed
- I replace your lowest midterm with your final exam score
  - Allows you to miss a midterm, or have an off-day, and still do well in the class

**See the full version of the syllabus for the details!**

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## “Why Should I Read the Full Version of the Syllabus?”

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Because:

- There are many more details within it, such as:
  - A detailed topic outline, links to free online textbooks, when to expect replies to questions, applying for disability accommodations, etc.
- It has links to Department, University, and ABoR policies that you should know about, including:
  - Attendance, codes of conduct, FERPA, incompletes, etc.
- Friday’s Practice Quiz (Quiz #0) will ask you questions about the content of the syllabus.
- Ignorance of the syllabus will not excuse you from its content
- And, importantly, it covers . . .

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# Academic Dishonesty (a.k.a., Cheating)

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Four words cover it: **Do Your Own Work!**

- The homeworks and quizzes in this class are **individual** assignments, meant to help prepare you for the exams (which are also individual activities!).
  - If you can't do homeworks, how will you handle exams?
- If we catch you cheating, the *minimum* sanction is a zero on the assignment and completion of an expensive academic integrity workshop.
- Stuck? The TAs and I are here to help you get unstuck!
  - We have office hours, Piazza, and CS tutors!
- Not sure that an action is acceptable? **Ask us first!**

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## Schedule for Weeks 1 and 2

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- This week (Week 1):
  - Today: Info, Start Math Review, **Background Survey**
  - Friday: More Math Review, **Practice Quiz (Quiz #0)**
- Next week (Week 2):
  - Monday: **No Classes** (MLK Day)
  - Wednesday: Math Review continues
  - Friday: Finish Math Review; **Quiz #1**, **Homework #1**

Curious about the items in red?

# Administrative Drops (A Last Syllabus Detail)

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Students who do not turn in AT LEAST ONE of:

- Background Survey,
- Practice Quiz (Quiz #0), and
- Quiz #1

will be administratively dropped from the class.

*(Why? Such ‘ghosts’ almost always either withdraw later, or ‘disappear’ without withdrawing and thus get a failing grade.)*

Plan to submit them all! Note that of those three items, only Quiz #1 counts toward your class grade.

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## The CS “Theory” Course Sequence

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1. CSc 144 (Discrete Math for CS I)
  - Logic, basic proofs, sets, matrices, relations, functions, . . .
2. CSc 244 (Discrete Math for CS II)
  - Inductive proofs, recurrence relations, graph theory, counting, probability, . . .
3. CSc 345 (Analysis of Discrete Structures)
  - Algorithm analysis, structural induction, trees and more graphs, hashing, sorting, . . .
4. [B.S. Degree Theory & Writing Elective] Your Choice of:
  - CSc 437 (Geometric Algorithms),
  - CSc 445 (Algorithms), or
  - CSc 473 (Automata, Grammars, and Languages)

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# Let's Do The Background Survey!

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## Instructions

- The Background Survey is NOT graded! (No stress!)
- Take one copy, pass the rest down the row
- Read and follow the directions
- When you are done, hand your paper to me or to a TA; you're free to go!

Enjoy the rest of your day! We'll see you next time!