

# Welcome to . . .

---

## CSc 144: Discrete Mathematics for CS I

Fall 2023 — Section 002

### Course Information Overview

Overview – CSc 144 v1.1 (McCann) – p. 1/17

---

## Announcements

---

*(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 later
- There are two sections of CSc 144 this fall
  - This is Section 002
  - Sections 001 and 002 are **NOT** interchangeable!
    - Different profs, assignments, exams, TAs, . . .
    - Attend only the section for which you registered.

Overview – CSc 144 v1.1 (McCann) – p. 2/17

# Catalog Info

---

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

Credits: 3

Meets: 3:00 – 3:50 p.m. Mondays, Wednesdays, and Fridays

Room: Koffler Building, Room 204

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: sets, functions, and relations; propositional and predicate logic; foundational combinatorics; discrete probability; modular arithmetic; and proofs.

**Final:** Thursday, December 14th, 2023, 8:00 – 10:00 a.m.  
(common final exam time with Section 001)

Overview – CSc 144 v1.1 (McCann) – p. 3/17

---

## Instructor and UGTAs

---

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

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

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

Nimet Beyza Bozdog<sup>\*</sup>

Claire Lodermeier<sup>\*</sup>

Sartaj Rauf<sup>\*</sup>

MohammadHossein Rezaei<sup>\*</sup>

Kekhrie (KK) Tsurho<sup>\*</sup>

<sup>\*</sup> UGTA for CSc 144 w/ McCann last spring

<sup>\*</sup> Took CSc 144 w/ McCann last spring

<sup>\*</sup> Took CSc 245 (previous version of 144 and 244) w/ McCann

Overview – CSc 144 v1.1 (McCann) – p. 4/17

# Information Resources

---

Looking for class information and materials?

- [Class D2L Site](#) (textbook, links to web page content):
  - [d2l.arizona.edu/d2l/home/1322194](https://d2l.arizona.edu/d2l/home/1322194)
- [Class Web Page](#) (guided & completed slides, handouts):
  - [cs.arizona.edu/classes/cs144/fall123-002](https://cs.arizona.edu/classes/cs144/fall123-002)
- [Piazza](#) (Q&A):
  - [piazza.com/class/lkucsa6fd8z7oe](https://piazza.com/class/lkucsa6fd8z7oe)

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

Overview – CSc 144 v1.1 (McCann) – p. 5/17

---

## Noteworthy Dates

---

Exams:

- Exam #1: Friday, September 22
- Exam #2: Friday, October 20
- Exam #3: Friday, November 17
- **Final Exam:** Thursday, December 14, 8–10 a.m.

No Class Meetings On:

- Monday, September 4th (Labor Day)
- Friday, September 29th (Honors Convocation, 3-5pm)
- Friday, November 10th (Veteran's Day)
- Friday, November 24th (Thanksgiving)

Overview – CSc 144 v1.1 (McCann) – p. 6/17

# Grades and Grading (1 / 5)

---

## Grade Breakdown:

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

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

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

Final Exam = 14% (comprehensive!)

---

TOTAL = 100%

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

Overview – CSc 144 v1.1 (McCann) – p. 7/17

# Grades and Grading (2 / 5)

---

## 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!**

Overview – CSc 144 v1.1 (McCann) – p. 8/17

# Grades and Grading (3 / 5)

---

## 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 OK.)*

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

Overview – CSc 144 v1.1 (McCann) – p. 9/17

# Grades and Grading (4 / 5)

---

## Midterm Exams

- Will cover the material since the last midterm
- Question types are 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 UGTAs and me within two class meetings
- Regrade requests accepted for a week by email to me

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

Overview – CSc 144 v1.1 (McCann) – p. 10/17

# Grades and Grading (5 / 5)

---

## Final Exam

- Is comprehensive (covers all topics, including math review)
- Is at a common time with the other CSc 144 section
  - Don't blame me; not my idea!
- Consists of short-answer & problem-solving questions
- I review finals of students near the next-higher letter grade
  - Thus, regrade requests are not needed
- I replace your lowest midterm with your final exam score
  - Allows you to miss a midterm, or have an off-day

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

Overview – CSc 144 v1.1 (McCann) – p. 11/17

---

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

---

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.
- The 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 . . .

Overview – CSc 144 v1.1 (McCann) – p. 12/17

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

---

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, SIs, & Piazza (and CS tutors!)
- Not sure that an action is acceptable? **Ask us first!**

Overview – CSc 144 v1.1 (McCann) – p. 13/17

---

## Schedule for Weeks 1 and 2

---

- This week (Week 1):
  - Today: Basic Info, Math Review, **Background Survey**
  - Wednesday: Math Review continues
  - Friday: Finish Math Review, **Practice Quiz (Quiz #0)**
- Next week (Week 2):
  - Monday: Topic 2 (Logic)
  - Wednesday: Topic 2 continues
  - Friday: Topic 2 continues; **Quiz #1**, **Homework #1**

Curious about the items in red?

Overview – CSc 144 v1.1 (McCann) – p. 14/17

# Administrative Drops (A Last Syllabus Detail)

---

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.

Overview – CSc 144 v1.1 (McCann) – p. 15/17

---

## The CS “Theory” Course Sequence

---

1. CSc 144 (Discrete Math for CS I)
  - Logic, basic proofs, sets, relations, functions, counting, probability, . . .
2. CSc 244 (Discrete Math for CS II)
  - Inductive proofs, recurrence relations, graph theory, finite state machines, regular languages, . . .
3. CSc 345 (Analysis of Discrete Structures)
  - Algorithm analysis, structural induction, trees and 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)

Overview – CSc 144 v1.1 (McCann) – p. 16/17



# Let's Do The Background Survey!

---

## 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 Wednesday!