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 at end

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

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.

**Instructor and UGTAs**

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

UGTAs: Kevin Li** (Class Coordinator)
Jake Bode* (Coordinator–in–Training)
Soumay Agarwal*
Cumhur Aygar
Aman Dwivedi**
Claire Lodermeier**
Adrian Moore*
Savannah Rabasa
MohammadHossein Rezaei**

* UGTA for CSc 144 or 245 w/ McCann previously
* Took CSc 144 or 245 w/ McCann previously
Information Resources

Looking for class information and materials?

- **Class D2L Site** (textbook, links to web page content):
  - d2l.arizona.edu/d2l/home/1399905

- **Class Web Page** (guided & completed slides, handouts):
  - cs.arizona.edu/classes/cs144/spring24-002

- **Piazza** (Q&A):
  - 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

**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)
Grades and Grading (1 / 5)

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!)

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)

**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!
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 fine.)

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

Grades and Grading (4 / 5)

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!
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!

“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.

- 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 . . .
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, Piazza, and CS tutors!

- Not sure that an action is acceptable? **Ask us first!**

Schedule for Weeks 1 and 2

- 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)

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.

The CS “Theory” Course Sequence

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)
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 next time!