Outline

• Mechanics
• Topics
• Practice problems
Mechanics

1. Today, May 1: Fill in the “When to take the exam” poll on Gradescope, if you wish

2. Friday, May 3: Check prairietest.org to see where and when you should take the exam. You WILL NOT BE ABLE TO TAKE THE EXAM if you come to the wrong room – you will have to walk across campus to the right room.

3. Tuesday, May 7: Come to the exam room bringing only your computer, your ID, and your pencils.
Today (Wednesday, May 1)

• If you have a preferred exam time (morning or afternoon), tell me at
  https://www.gradescope.com/courses/701752/assignments/4366365 (Assignment: “When to take the final”)

• This must be completed by the end of May 1 if you want to use it.
• Your preference is NOT GUARANTEED!!!! Some people will get a non-preferred time
• If you have constraints (e.g., another exam) that limit your ability to switch, specify your constraints in the ”Why” box.
Friday, May 3

• Go to https://prairietest.org
• Click on this course
• Check to find out when and where you are taking the exam.
• If you don’t see an exam assignment, please send e-mail to Prof. Hasegawa-Johnson.
• If you go to the wrong room on May 7, you WILL NOT BE ABLE TO TAKE THE EXAM THERE. You will have to walk across campus to the right room. So make sure you get the right room the first time.
Tuesday, May 7

• Show up about 15 minutes early, so that you can be checked in by the time the exam starts.
Bring your own device!

• Bring a laptop or tablet on which you will take the exam
• It should be a device with an internet connection, on which you can take exams at https://prairietest.org
• Cell phones are not guaranteed to work
Bring your UIUC ID!!

- You will need your ID to check in before taking the exam
- You will need your ID to check out, and then check back in again, if you need a bathroom break
- You will need your ID to check out if you finish the exam early
- If you have a non-UIUC ID, you will have to wait in the slow check-in line
Bring your pencils!!!!

- We will provide scratch paper
- We will not provide pencils
- Bring your pencil
Bring nothing else!!!!

• Your pockets should be empty, except ID and pencils
  – Cell phone is in your backpack
  – Earphones are in your backpack
  – Baseball cap is backward on your head, or in your backpack

• Backpack is at the side of the room, on the floor
  – NOT under your own desk
Review

1. Today, May 1: Fill in the “When to take the exam” poll on Gradescope, if you wish.

2. Friday, May 3: Check prairietest.org to see where and when you should take the exam. You WILL NOT BE ABLE TO TAKE THE EXAM if you come to the wrong room – you will have to walk across campus to the right room.

3. Tuesday, May 7: Come to the exam room bringing only your computer, your ID, and your pencils.
Outline

• Mechanics
• Topics
• Practice problems
Topics covered on the exam

- 6 questions: topics from exam 1
- 6 questions: topics from exam 2
- 4 questions: reinforcement learning
Reinforcement learning topics

• Model-based learning
  – Laplace-smoothed parameter estimates
  – Epsilon-first and Epsilon-greedy exploration strategies

• Model-free learning
  – TD-learning & SARSA
  – Policy gradient

• Speed of learning
  – Standard error
  – Exponential complexity of naïve RL
Outline

• Mechanics
• Topics
• Practice problems
Practice problems

https://courses.grainger.illinois.edu/ece448/sp2024/exams.html