Introduction to Artificial Intelligence

CSCE 476-876, Fall 2023
URL: www.cse.unl.edu/~cse476
URL: www.cse.unl.edu/~choueiry/F23-476-876

Outline

• Overview of administrative rules
• What is AI?

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Avery Hall, Room 259
Tel: (402)472-5444
When do we meet..

- **Lecture:**
  Mon/Wed/Fri, from 2:30 to 3:20 p.m.
  Room 118, Avery Hall
  I come 5 (10?) minutes earlier to answer questions
  and review material from *previous* lectures
  We must leave on time if another class needs to the room.

- **Make-up class/recitation:**
  Mon, from 3:30 p.m. to 4:20 p.m.
  Avery Hall, Room 118 (or Lab 21?)
Communications

- Always refer to the syllabus, our contract

\[ \text{www.cse.unl.edu/~choueiry/F23-476-876} \]

- All communications via Piazza, please do **not** use email

- Broadcast to class, private with instructors

- Open or anonymous
Office hours:

- Instructor: In office or by Zoom room
  Wednesday and Friday, 3:30–4:30 p.m. or by appointment

- GTA: Simon Schoenbeck, in SRC (AvH 12)
  Office hours: Tuesday/Thursday, 2:00–3:30 p.m.

- UTA: TBD

- Professional attitude: respect schedule of GTA/UTA
Books

- Common Lisp the Language (the Steele) Second edition.
Topics

1. Lisp
2. Intelligent agents
3. Search
4. Constraint satisfaction
5. Games
6. Logical systems
7. Planning systems

If time allows:

- Uncertainty: probability and decision theory
Important warnings

- **CSCE 310 is a pre-requisite.** If you don’t have it, you need to immediately contact the instructor.

- I will come to class 5 minutes ahead of schedule, can answer questions.

- Homework must be done in Python (preferable), Java, C, or C++. To use **Allegro Common Lisp**, talk to instructor. All homework must run on the new cse server (cse-linux-01..unl.edu)

- Beyond office hours, communicate with us on Piazza as much as possible.

- Class time is limited. **Do your required reading.**
Related courses at CSE

- Artificial Intelligence (976)
- Constraint Processing (421/821 & 921)
- Computational Game Theory and Its Applications (496/896)
- Data Mining (474/874, 990)
- Machine Learning (478/878)
- Multiagent Systems (475/875)
- Deep Learning (496/896)
- Logic in the Philosophy Department
- (Neural Networks & Genetic Algorithms (479/879, 974)?)
Course load

- Required and recommended reading: AIMA & LWH
- Homework: Programming, theoretical, library-search
  To be submitted before class, late-return policy, indicate effort
- (Surprise) Quizzes: frequent, cover class discussions & required reading, cannot be made up
- Tests: Pretest (Fri, Aug 25), midterm (Fri, Oct 13), and final (Wed, Dec 13)

General policy: closed books, cheat-sheet policy
Student’s responsibility

• Check your account on cse-Linux-01 (or cse)
• No plagiarism, heavily sanctioned. Review policy of CSE
• No recording of classes without explicit, prior permission
• Always acknowledge sources, help, individuals, url, etc.
• Attendance not mandatory, however students are responsible for material covered and quizzes taken
• Professional behavior: don’t miss classes

Our commitment

• We will try our very best to help you learn the material
• We will be as available as possible
• We will always listen to your feedback to improve the course
Grading policy

• Homework 30%
• Pretest 5%
• Quizzes 15%
• Midterm 25%
• Final 25%
Secure a good grade

- Bonus for full attendance
- Glossary: Weekly, tested during quizzes. (Up to 8%)
- Bonus for programming in Allegro Common Lisp
- Bonus for solving occasional riddles
- Bonus for finding errors of the instructor
How well you are doing: feedback mechanisms

- Quizzes are corrected in class.
- Homework and glossaries are promptly corrected.
- Grades are listed on Canvas.
- You have 7 calendar days to claim grade adjustment. Strictly reinforced.
- Students who are not performing are contacted directly. Grades are monitored, but I cannot force you to work.
- Your suggestions for improving the course and our feedback mechanisms are *most welcome*, carefully considered, and implemented as quickly as possible.
- Please let us know what other feedback you expect.
Other resources

- Student’s catch from the web
- Check class page under “Reference”, books and online pointers
- LL collection, dictionaries, and reference books
Pretest

• Scheduled for Friday, Aug 25, 2023

• One part to be completed in the class: crib sheet policy

• One part to be completed at home: collaboration, discussion strictly forbidden

• Content: basic knowledge of mathematics, logic, algorithm, data structure, complexity