

Introduction to Artificial Intelligence

CSCE 476-876, Fall 2022

URL: `www.cse.unl.edu/~cse476`

URL: `www.cse.unl.edu/~choueiry/F22-476-876`

1

Outline

- Overview of administrative rules
- What is AI?

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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, Lab 21/Room 118

Communications

- Always refer to the syllabus, our contract
- Frequently check the class schedule (web)
`www.cse.unl.edu/~choueiry/F22-476-876`
- 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: Kendric Thompson, in SRC (AvH 12)
Office hours: Thursday, 11:30A.M.–12:30P.M.
- UTA: Max Nguyen, in SRC (AvH 12)
Office hours: Tuesday, 2:00–3:00P.M.
- Professional attitude: respect schedule of TA

Books

- AIMA: **Fourth edition.**
- Lisp (LWH): **Third edition.**
- 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 contact the instructor immediately.

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

- Homework must be done in Python (preferable), C, or C++.
To use **Allegro Common Lisp**, talk to instructor. All homework must run on the CSE server (CSE.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 26), midterm (Fri, Oct 14), and final (Mon, Dec 12)

General policy: closed books, cheat-sheet policy

Student's responsibility

- Account on cse (or csnt)
- 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 26, 2022
- 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