Introduction to Artificial Intelligence

CSCE 476-876, Fall 2020

URL: www.cse.unl.edu/~cse476
URL: www.cse.unl.edu/~choueiry/F20-476-876

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Outline

- Overview of administrative rules
- What is AI?
When do we meet..

- Lecture:
  Mon/Wed/Fri, from 2:30 to 3:20 p.m.
  Room 115, 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 115
Communications

- Always refer to the syllabus, our contract
- Frequently check the class schedule (web)
  www.cse.unl.edu/~choueiry/F20-476-876
- All communications via Piazza, please do **not** use email
- Broadcast to class, private with instructors
- Open or anonymous
Office hours:

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

- GTA: Minal Khatri, on Zoom room
  Office hours: Monday and Friday, 12:30 P.M.-1:30 P.M.

- UTA:
  No UTA this semester

- Professional attitude: respect schedule of TA
Books

- AIMA: 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 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)
- Data Mining (474/874, 990)
- Machine Learning (478/878)
- Multiagent Systems (475/875)
- Deep Learning (496/896)
- Computational Game Theory (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 (Mon, Aug 24), midterm (Mon, Sep 28), and final (Mon, Nov 23)

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

- Glossary: Weekly, tested during quizzes. (Up to 8%)
- 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 Monday, Aug 24, 2020
- 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