CS473—Artificial Intelligence I
Fall 2001
MWF 1:30-2:20, Bagley 260
Syllabus

Artificial intelligence (AI) poses two of the most fundamental and challenging questions in computer science: can we build intelligent machines? How? This course will address these questions by providing an in-depth introduction to selected topics in AI including search, machine learning, and NLP.

Professor: Oren Etzioni (209 Sieg, etzioni@cs.washington.edu).
Office hours: Monday 4:30 – 5:30pm or by appointment.
Throughout the course, if you have comments or suggestions regarding the course. I'd be happy to talk about them in office hours or to receive e-mail. If you have questions about an assignment, I'd prefer to answer them in class so everyone can benefit from the answer.

TA: Jayant Madhavan(jayant@cs.washington.edu).

Final date: Dec. 14 2:30–4:20pm (be sure to confirm!).

Text:

1. Required: "Artificial Intelligence" 2nd edition by Rich and Knight. Copies should be in the bookstore.
2. Distributed: supplementary handouts, papers.

Course Outline

1. Introduction to AI (week 1), chapters 1, 2.
2. Search and constraint satisfaction (week 2), chapter 3.
3. Game playing (weeks 3 and 4), chapter 12.
4. Machine learning (weeks 5-6), chapter 17, handouts.
5. Natural Language Processing (weeks 7-8), chapter 23, papers.
6. Agents and planning (weeks 9-10) handouts.
7. The Big Questions, review for final (final week).

This outline is approximate and will be modified.

Problem sets

- Problem sets will be handed out on Mondays.
- Problem sets are due at the beginning of class on Mondays (a week after they are handed out).
- You can drop your lowest problem set score.
- The TA will hand problem sets back one week after they are received along with solution sets.
- The first problem sets will be build on each other to create a project.

Reading Assignments

The reading assignment is "due" a week after it's assigned. Think critically about what you're reading and come to class with questions, ideas, counter-arguments, you name it.

Grading

Your grade in the course will be determined as follows:

- 75% problem sets.
- 25% final.

- 10% class participation.
  Note: class participation can only improve your grade.