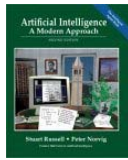


# CSCE 4310 – Introduction to Artificial Intelligence

## Instructor – B. Buckles

January 18, 2007

Textbook



Title: Artificial Intelligence: A Modern Approach, Second Edition  
Author: Stuart Russell and Peter Norvig  
Publisher: Prentice-Hall  
Year: 2003  
ISBN: 0-13-790395-2

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Course  
Objectives

1. Understanding of the agent-based framework
2. Proficiency in the use of search strategies for goal-oriented agents
3. Knowledge of first-order logic allowing agents to infer the effects of actions on world states
4. Practice the use of basic probability for measuring the utility of alternative agent decisions
5. Introduce fundamental learning methods that enable an agent to improve its performance

Grading  
System

Homework	25%
Tests (2)	30%
Final Exam	20%
Project	25%

Tentative  
Schedule

Week 1	Jan. 16-18	Chap. 2	Agents
Week 2	23-25	3	Search
Week 3	30-1	4	A* heuristics
Week 4	Feb. 6-8	4-5	
Week 5	13-15	5	(Test) Constraint Satisfaction
Week 6	20-22	6	Games
Week 7	27-1	7	Logic
Week 8	Mar. 6-8	7-8	
Week 9	13-15	8	First-Order Logic
Week 10	27-29	9	
Week 11	Apr. 3-5	13	(Test) Probability
Week 12	10-12	13-14	
Week 13	17-19	14	Bayesian Methods
Week 14	24-26	18	Learning
Week 15	May 1-3	18	

## Exams

There will be three exams: two midterm exams and a final. The final will focus on material covered after the second midterm exam, but it will be assumed that the student is familiar with all material from the previous tests. An exam can only be made up if it was missed because of an emergency and arrangements are made before the exam.

The final exam is scheduled for May 8 (Tuesday), 1:30pm-3:30pm.

## Attendance

Attendance will not be taken, but students are responsible for all material covered in class. If a student misses a class, then it is that student's responsibility to obtain notes or other materials from another student.

## Due Dates

Assignments are to be turned in by 5:00pm on the date due. Late assignments are subject to the following penalties:

- 15 point penalty if turned in anytime after the due date until 5:00pm of the next class day
- 30 point penalty if turned in anytime between the first and second class day after the due date (again, up until 5:00pm on the last day)
- No assignment will be accepted following the second class day it was due

## Web Site

<http://www.cse.unt.edu/~bbuckles/Teaching/4310/>

## Academic Dishonesty

All students are expected to do their own work. Discussions of concepts are encouraged, but all assignments should be done individually. If sources other than the course textbook and presentations are used for reference

## Americans with Disabilities Act

The Department of Computer Science and Engineering cooperates with the Office of Disability Accommodation to make reasonable accommodations for qualified students (cf. Americans with Disabilities Act and Section 504, Rehabilitation Act) with disabilities. If you have not registered with ODA, we encourage you to do so. If you have a disability for which you require accommodation please discuss your needs with me and submit your written Accommodation Request on or before the fourth class day.