CSCI 561 – Artificial Intelligence, Spring 2014

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Course Objective:

This course provides an overview of the field of Artificial Intelligence. This has become a very broad field, so we will cover only portions of it.
We will follow the excellent textbook by Russell and Norvig, *Artificial Intelligence, A Modern Approach*, 3rd Edition.

Prerequisites:

There are no special prerequisites are necessary, but it is imperative that you have
- Good Programming Skills (you should be comfortable with programming)
- Basic Math Skills
- Knowledge of data structures (lists, trees, …)

Course Requirements:

You will be evaluated on exams, assignments and projects.

1 mid term exam	(22.5% of your grade)
1 end term exam	(22.5% or your grade)
2 non-programming assignments	(22.5% of your grade)
2 Programming assignments	(22.5% of your grade)
Attendance and participation	(10% of your grade)

Tentative set of lectures

Introduction	AIMA 1
Intelligent Agents	AIMA 2
Problem Solving & Search	AIMA 3
Constraint Satisfaction	AIMA 6
Uninformed Search	AIMA 3
Informed Search	AIMA 4
Game Playing	AIMA 5
Logical Agents	AIMA 7
First Order Logic	AIMA 8
Inference in FOL	AIMA 9
Planning	AIMA 10
Uncertainty	AIMA 13
Probabilistic Reasoning	AIMA 14
Neural Networks	AIMA 18
Perception (NLP)	AIMA 22
Perception (Vision)	AIMA 24
Philosophy	AIMA 26

Textbooks:

Required textbook : Russell and Norvig, *Artificial Intelligence, A Modern Approach*, 3rd Edition
See also http://aima.cs.berkeley.edu/ for additional resources including
Code http://aima.cs.berkeley.edu/code.html
Demos http://aima.cs.berkeley.edu/demos.html

Academic Integrity

The USC Student Conduct Code prohibits plagiarism. All USC students are responsible for reading and following the Student Conduct Code, which appears in the SCampus. Although we encourage discussions among students, all work submitted for the class is to be done individually, unless an assignment specifies otherwise. Some examples of what is not allowed by the conduct code: copying all or part of someone else's work, and submitting it as your own; giving another student in the class a copy of your assignment solution; consulting with another student during an exam. If you have questions about what is allowed, please discuss it with the instructor. Violations of the Student Conduct Code will be filed with the Office of Student Conduct, and appropriate sanctions will be given.