

# CS 4480, Fall 2012

## Quiz 1 Review

As part of your review process, I recommend you study:

- Notes from class
- Reread book chapters
- Homework
- Look over exercises at the end of the chapter in the book.

### **Chapter One: Introduction, Focus on Section 1.1**

- Formulate a reasonable working definition of AI
- Know the four categories of definitions of AI found in figure 1.1 and be able to discuss the pros and cons of these categories.
- Be able to explain and discuss the Turing Test and the Chinese Room

### **Chapter Two: Intelligent Agents, Focus on Sections 2.1-4**

- Be able to define a rational agent
- What four things does a rational agent depend on?
- Understand and identify the sensors, actuators, percepts, and the percept sequence of an agent
- Be able to discuss good agent behavior and performance measures
- Be able to provide a PEAS description of an agent's task environment
- Be able to discuss and identify the properties of a task environment (section 2.3.2)
- Be able to explain the structure and differences between a simple-reflex agent, a model-based agent, a goal-based agent, a utility-based agent, and a learning agent.
- Given a problem, discuss the environment and agent you would use to solve it