

## **91.420/91.543 Artificial Intelligence, Spring 2002 Syllabus**

### **Contact Information**

Prof. Holly Yanco  
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Lab: Olsen 304  
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### **Class Meetings**

Tuesday and Thursday, 11:30-12:45, in Olsen 414.

### **Office Hours**

Office hours for the course will be held in the lab (Olsen 304) during the following times:

Tuesdays 1:00 to 3:00  
Thursdays 1:00 to 3:00

You may also make an appointment with me if you can not make it to the scheduled office hours.

### **Course Description**

In this course, you will learn about Artificial Intelligence (AI). AI is a very large field, with topics ranging from game playing to robotics to expert systems. We will be focusing on some of the areas of AI, including search, game playing, machine learning, and vision.

This semester 91.420 (undergraduate AI) and 91.543 (graduate AI) will be meeting at the same time. Graduate students will be expected to do extra problems on assignments and more in depth projects.

The course will include regular assignments, a midterm, a final exam, and three projects. The first two projects will be specified, but you will select your final project topic based upon your interests. On the projects, students may choose to work alone or with a partner. Students choosing to enter the Trinity Firefighting Competition may have a group with more than two students.

### **Project Sequence**

This course, taken in conjunction with Robotics I in Fall 2001, has been approved as a project sequence for the 2001-2002 school year.

## **Textbook**

Artificial Intelligence: A Modern Approach  
Stuart Russell and Peter Norvig  
Prentice Hall

## **Grading**

Assignments	20%
Midterm Exam	15%
Projects:	
First	10%
Second	15%
Final project	20%
Final Exam	20%

## **Collaboration Policy**

Projects may be done individually or with one partner. You may choose your own partners, but I reserve the right to regroup people. If you do choose a partner, I expect that each person will do his or her own equal share of the work. To learn, you'll need to write the code for the projects, not watch another person do it.

Homework assignments should be written up individually. You may discuss the questions with your classmates, but you should write them separately.

Exams are also to be an individual proposition.

## **Robots**

For students continuing the project sequence, you will have the option to continue working with the robots from 91.450. My plan for doing this is to have students enter the Trinity Firefighting Competition as their final project. However, I am also open to other suggestions.

Students who did not take 91.450 will be allowed to work on a robot team, but the other students in the group must take primary responsibility for teaching the new person/people how to use the robot equipment.

## **Lab**

The lab is in Olsen 304. All students will be given 24 hour access to the lab through the ID lock. Each robot group will continue to have their own bench for working. Non-robot groups may use non-assigned benches, if space is available. (Non-robot groups may ask for a bench assignment if there is a compelling need.) If you are not working on robots, you do not need to work in the lab, but you may use the space if you wish. Please try to keep your workspace and the lab neat.

## **Make-up Class**

On Tuesday, February 12, I will be out of town. We will reschedule this class meeting for Wednesday, February 13 at a time to be voted on in class (once people's schedules settle down in a week or so).