

CSCI/PHIL 4550/6550 Artificial Intelligence

Fall 2004: Tuesdays and Thursdays 12:30pm - 1:45pm, Geog-Geol 200D

[Instructor: Prof. Khaled Rasheed](#)

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Office Hours: Monday: 4:30-6:00pm & Friday: 3-6pm

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Teaching Assistant: Bo Qian

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Objectives:

To provide a broad introduction to the field of Artificial Intelligence (AI). The course is appropriate both for nonspecialists who wish to acquire a general understanding of the field, and for students preparing for more advanced courses or research in Artificial Intelligence.

Recommended Background:

Familiarity with first-order logic, basic graph representations and algorithms, complexity and at least one high level programming language.

Topics to be Covered:

Goals of the Artificial Intelligence field; Core topics of AI, including search, knowledge representation, reasoning, planning and learning; Applications of AI selected from among the following: machine vision, natural language processing, robotics and cognitive modeling; other advanced topics.

Expected Work:

Reading; problem sets; quizzes, two midterms and a final examination. (Unless otherwise announced by the instructor: all problem set solutions and all exams must be done entirely on your own.)

Academic Honesty and Integrity:

All students are responsible for maintaining the highest standards of honesty and integrity in every phase of their academic careers. The penalties for academic dishonesty are severe and ignorance is not an acceptable defense.

Grading Policy:

- Problem Sets: 30 %
- Midterm Examinations: 20+20 %
- Final Examination: 30 %

The above distribution is only tentative and may change later. The instructor will announce any changes.

Homework Submission Policy

Homework must be turned in by the assigned deadline. Late homework will not be accepted. Rare exceptions may be made by the instructor only under extenuating circumstances and in accordance with the university policies.

Course Home-page

A variety of materials will be made available on the AI Class Home-page at <http://www.cs.uga.edu/~khaled/AIcourse/>, including assignments. Announcements may be posted between class meetings. You are responsible for being aware of whatever information is posted there.

Lecture Notes

Copies of **some** of Dr. Rasheed's lecture notes will be available at the bottom of the class home page. Not all the lectures will have electronic notes though and the students should be prepared to take notes inside the lecture at any time.

Textbook in Bookstore

- Artificial Intelligence: A Modern Approach, Russell and Norvig, Prentice-Hall, second edition, 2003. (Required.)

Additional Books

- Essentials of Artificial Intelligence, Ginsberg, Morgan Kaufmann, 1993.
- Artificial Intelligence, Winston, Addison-Wesley, 3rd ed., 1992.
- Artificial Intelligence, 2nd Edition, Rich and Knight, McGraw-Hill, 1990.

Announcements:

- 10-14-2004: The projected grades and all scores are posted [HERE](#). Please make sure that all your scores are properly recorded. If your projected grade is C or lower, I strongly advise you to come and see me tomorrow or Friday. I will be available in my office tomorrow from 2 to 3 p.m. in addition to my office hours on Friday.

Homeworks:

- [Homework 1](#)
- [Homework 2](#)

Lecture Notes:

- [Chapter 2,Compressed](#)
- [Chapter 3,Compressed,PDF](#)
- [Chapter 4,Compressed,PDF](#)
- [Chapter 4 \(GA part\)](#)
- [Chapter 5,Compressed,PDF](#)
- [Chapter 6,Compressed,PDF](#)