CS 591-491—Expert Systems  
Summer 2004

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Office Hours: M-W-F: 13:00 to 14:00


Main Topics: 1. Introduction to Expert Systems  
2. CLIPS ES shell: Pattern Matching, Variables, Functions, Expressions, Constraints Templates, Facts, Rules, Salience; Inference Engine  
4. Reasoning and Inference: Predicate Logic, Inference Methods, Resolution Forward-chaining, Backward-chaining  
5. Reasoning with Uncertainty: Probability, Bayesian Decision Making  
6. Approximate / Fuzzy Reasoning  
7. Expert System Design  
8. Expert System Examples

Grading: Midterm: 25%  
Project/Assignments/Quizzes: 50%  
Final Exam: 25%  
NOTE: These percentages are tentative; there may be significant changes.

Grading Scale: A = 90-100, B = 80-89, C = 70-79, D = 60-69, F < 60.

Missing Exams: If you should miss an exam (not including quizzes), you must let me know before the exam. You may call me, send me E-mail, or come by my office to inform me. If the excuse is reasonable, I will replace your exam score with your last exam percentage. This doe

Attendance: I strongly encourage regular attendance in my classes and will take attendance at the beginning of each class. You are responsible for all announcements and for all material presented in the lecture sessions.

Turning in work: Please turn in your work on time. Your works should be turned in before I start the class, unless I extend the deadline.

Final Notes: 1) Personal laptops are not allowed to be used in class. 2) During the lab sessions, computers should be only used for doing the lab assignments and reading class materials.