CS 437—Intelligent Systems and Soft Computing  
Fall 2016

**Instructor:** Dr. Shahram Rahimi  
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**Office Hours:** T-TR: 2:00pm to 3:30am


**Main Topics:**
1. Introduction to Intelligent Systems  
2. Rule-Based Expert Systems  
3. Java Expert System Shell (JESS)  
4. Uncertainty Management in Rule-Based Expert Systems  
5. Fuzzy Expert Systems  
6. Artificial Neural Networks (supervised and unsupervised learning)  
7. Evolutionary Computation  
8. Hybrid Intelligent Systems (algorithms, strategies, and programming)  
9. Knowledge Engineering: Case Study

**Grading:**
Test1: 20%; Test2: 20%; Test3: 20%;  
Assignments and Quizzes: 20%;  
Class Project: 20% (groups of 2 students)  
**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 final exam grade.

**Attendance:** Regular attendance in my classes are required and will affect your grade. You are responsible for all announcements and for all material presented in the lecture sessions.

**Turning in work:** Turn in your work on time. Your works should be turned in before I start the lecture.

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