

# FALL 2016

## Computer Science Special Topics

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**CS 591-1 / CS 437-1**

Tuesday, Thursday

9:35 – 10:50 AM

PARK 108

Instructor – Dr. Shahram Rahimi

### Machine Learning & Soft Computing

An introduction to the field of computer intelligence and soft computing. It covers rule-based expert systems, fuzzy expert systems, artificial neural networks, evolutionary computation, and hybrid systems. Students will develop rule-based expert systems, design a fuzzy system, explore artificial neural networks, and implement genetic algorithms.

**Prerequisite:** CS 330 with a grade of C or better

**Textbooks:** *Artificial Intelligence: A Guide to Intelligent Systems*, Michael Negnevitsky, 3<sup>rd</sup> edition, Addison Wesley, ISBN: 9781408225745.