

SPRING 2016

Computer Science Special Topics

CS 491-2 / CS 591-2

Monday, Wednesday, Friday

3:00 – 3:50 p.m.

Faner 1222

Instructor – Dr. Henry Hexmoor

Natural Language Processing

The objective of this course is to provide an overview of basic Natural Language Processing (NLP) techniques. NLP has a rich history in computer science and is at the intersection of pattern recognition, speech recognition, artificial intelligence and semantic understanding. NLP is widely used in specialized applications and there is potential for automating the way we interact with our world.

Prerequisite: Graduate or senior standing & programming skills

Textbooks:

1. C. D. Manning and H. Schütze 1999. *Foundations of Statistical Natural Language Processing*, The MIT Press.
2. S. Bird and E. Klein, 2009. *Natural Language Processing with Python*, O'Reiley pub.