



# Natural Language Processing with *Python* (aka *Snakes in a Classroom*)

In the Spring of 2010, CISE will offer a CIS 4930 technical elective introducing students to the core principles of *Natural Language Processing* and *Python*.

## Natural Language Processing

This course will introduce students to the practical application and theory of Natural Language Processing. Practically, we are motivated to study natural language to better understand how to search abstract data sets (for example the *deep-web*) for query answer retrieval. We are also motivated by applications such as *Spelly*, <http://www.youtube.com/watch?v=Sx3Fpw0XCXk>, provided by **Google Wave**. Among the theoretical topics included are: regular expressions, collocations, n-grams, syntactic parsing, word sense disambiguation, lexical acquisition, context-free grammars, and information retrieval.

## Python

No experience with *Python* is required. We will learn *Python* together, using it to illustrate course concepts and develop project solutions.

## CIS 4930 Course Registration

Instructor: Pete Dobbins; Section: 5738; Period: MWF 7<sup>th</sup>; Location: McCarty (MCCA) 2186; Credits: 3 of technical elective; Website: <http://www.cise.ufl.edu/~pjd/courses/4930/nlp/admin/>.  
Pre-requisite: COP 3530 Data Structures & Algorithms.

