Course Details

## Assumptions:

* Proficient programmer in at least one high level programming language
* Can learn basic python in one week
* Can do algebra, summations, calclulus
* Can download the Python IDE
* Know what a matrix is

## Why Python

* Popular
* Popular for data science and machine learning
* Free, open-source, simple syntax
* Extensive support libraries (mathematical functions, matrix operations, plotting, graphics)
* Having a standard language makes it more likely to grade quickly

## Other things:

* Assignments through canvas
* 4430 and 6430 into one section
* No textbook
* Only recommended book: Think Python: How to think like a computer scientist
* Download anaconda
  + Python 3
  + Spyder

Format

* Material divided into modules
* Each has video lectures, assignments, something due each week