The University of Iowa

College of Urban and Regional Planning

**Introduction to Coding Basics**

Fall Semester, 2016

6:30 – 8:00 T 346 JH

*Some of the policies relating to this course (such as the drop deadline) are governed by its administrative home, the College of Liberal Arts and Sciences, 120 Schaeffer Hall.*

**Instructor: Mark Pooley**

*Instructor Email address*: [*mark-pooley@uiowa.edu*](mailto:mark-pooley@uiowa.edu)

**Description of Course**

The course description reads:

This introductory course is intended to give a gentle and hands-on experience in writing Python (a popular scripting language) code and its applications. We’ll start with learning the basic syntax and variable types, then move into functions, loops, conditional statements, and finish with implementation of python in ArcGIS. This class will be meet briefly for 20-30 mins, then move to the computer lab for students to work on problems.

Note, this course is not seeking to provide a comprehensive background in computer science, rather it’s a meant to serve as in introductory/overview course to provide students with enough exposure to help them implement Python scripting in other coursework. This is not intended to be an “intense, sink or swim” course. Problems will be provided by the instructor for students to work through during lab class time. Students will be encouraged to work together and share ideas.

**Texts and Resources**

None! The internet in our text book!

**Grades and Examinations**

This will be a pass/fail course.

**Course Calendar**

Date: 09/13/2016 Topic: Variable Types and basic functions

Date: 09/20/2016 Topic: Using loops and conditional statements

Date: 09/27/2016 Topic: Introduction to Python Libraries and their uses

Date: 10/04/2016 Topic: Python in ArcGIS – creating your own tools.