

## **Intermediate Python**

### **2-Day Course**

\$800/student

### **Overview**

This two-day course teaches students how to accomplish more with Python scripts for Python 2.5. Students learn how to read and write files, and manipulate strings with regular expressions. Tips and tricks are discussed throughout the class for writing better scripts, modularizing code, working with ArcGIS and debugging code. Students will also learn methods of sharing scripts with others.

### **Audience**

This course is for those who are already comfortable with the basics of geoprocessing with Python but who want to learn more about string manipulation, file input and output, and other non-geoprocessing functionality of Python.

### **Topics covered**

#### Python basics

- PythonWin
- Variable types
- Conditional statements
- Hashes

#### File manipulation

- Input parameters
- Reading files
- Manipulating strings
- Regular expressions
- Writing files
- Formatting output
- Directory operations

#### Tips and tricks

- System commands
- Modules
- ArcGIS

- Debugging

### **Prerequisites and recommendations**

Students should be familiar with the basics of the Python scripting language and calling geoprocessing methods, including the topics covered in the **Introduction to Geoprocessing Scripts using Python** class.