

Home > Instructor-Led Class Schedule

Instructor-led Class Schedule

When you register for classes over the Internet you can pay with one of the following payment options.
If you would like to FAX your registration, please print this registration form [PDF 90kb, 1 page] and send as instructed.

1 classes meet your schedule criteria.

[Change Schedule Criteria](#)

- To register, enter the quantity, then click Register.
- To read the course description, click the course title.

If you are not able to find training to fit your schedule, please contact us or try our Authorized Training Program for additional classes.

Course Name ▾	Dates ▲	Location ▾	Price ▾	Quantity
Writing Advanced Geoprocessing Scripts Using Python <i>Version 9.x</i> Class ID: 50105082	01/29/07-01/31/07 8:30 AM - 5:00 PM Monday- Wednesday	Saint Paul, Minnesota Get Map	\$1,350.00	<input type="text" value="0"/>

[Back](#) | [Register](#)

ESRI Training and Education

Learn from the World Leader in GIS

Writing Advanced Geoprocessing Scripts Using Python

3 days (24 hours) [IL](#)

Authored by ESRI

Overview

Building on the skills and knowledge taught in *Introduction to Geoprocessing Scripts Using Python*, this course teaches intermediate to advanced Python scripting techniques for the ArcGIS geoprocessing framework. Students begin by refining their Python scripting skills as they manipulate several key data types and create effective, reusable code. Students then apply these skills to execute custom geoprocessing functionality. The course covers how to create and incorporate different types of custom geoprocessing tools into the ModelBuilder environment and prepares students to leverage the full capabilities of Python scripting within the ArcGIS geoprocessing framework.

Those completing this course will be able to:

- Manipulate Python's key data types, including strings, lists, and dictionaries.
- Write Python scripts to read and write text files.
- Create reusable code.
- Create scripts that read existing geometries and create new geometries.
- Work with subsets of data.
- Implement data management techniques on personal, file, and multiuser geodatabases.
- Incorporate custom applications into the ModelBuilder environment.

Topics Covered [Show/Hide](#)

- Working with Python data types: Strings; Lists; Dictionaries.
- Python modules and functions: Importing built-in Python modules; Getting help for functions; Manipulating strings; Creating a random selection; Controlling script termination.
- Working with geometry: Cursor objects; Point objects; Geometry object properties.
- Working with subsets of data: Feature classes vs. feature layers; Tables vs. table views; Creating a subset of fields and records.
- Managing data: SpatialReference and ValueTable objects.
- Making code reusable: Building and sharing custom tools and toolboxes; Documentation and metadata.
- Working with ModelBuilder: Incorporating script tools, AMLs, EXEs, and DLLs into models.
- Advanced topics: Calling the geoprocessor with VBA; Creating GUIs.

Who Should Attend

This course is designed for experienced ArcGIS users who want to create Python scripts to automate complex geoprocessing tasks.

Prerequisites

Students should have completed Introduction to ArcGIS I or Learning ArcGIS 9, Introduction to ArcGIS II, and Introduction to Geoprocessing Scripts Using Python or have equivalent knowledge. Students should have experience applying the concepts and syntax taught in the introductory course. In particular, experience writing Python scripts that contain variables, loops, and standard ArcGIS geoprocessing tools is required.

Software Used in Course

ArcGIS 9, ArcInfo 9, ArcGIS 9, ArcInfo 9, Python

ArcInfo 9.2

PythonWin 2.4

Copyright © 1997-2006 ESRI.