



Programming ArcObjects with .NET

Self Paced or Instructor Guided Internet Course
Created by **Geospatial Training Services, LLC**
A Keck & Wood, Inc. Authorized Business Partner

Course Overview

This course is designed to teach the fundamental programming constructs of ESRI's ArcObjects within a .NET environment. Course participants will be led through a series of 14 modules covering topics such as Extending ArcGIS Desktop Fundamentals, Building ArcGIS Desktop Commands, Creating custom ArcGIS extensions and many others.

Target Audience

This course is designed for beginner to advanced level ArcGIS programmers who wish to learn how to create Visual Basic and C# to create custom tools and extensions for ArcGIS Desktop that can be used to automate processes and analysis with in ArcGIS.

Prerequisites and recommendations

This course is not for new computer or ArcGIS users. Students taking this course should have taken ArcGIS Desktop II & III or have similar real world experience. They should also have an understanding of basic programming concepts.

Course Goals

After successfully completing this course users will have acquired a number of new skills related to Geoprocessing with Python. These new skills include:

- Fundamental understanding of Microsoft .NET and Visual Studio.
- Fundamental understanding of Visual Basic .NET and C#
- Create custom tools and commands for ArcGIS Desktop
- Build extensions for ArcGIS desktop
- Access the ArcObjects API
- Create basic applications for ArcGIS Server and Engine using .NET

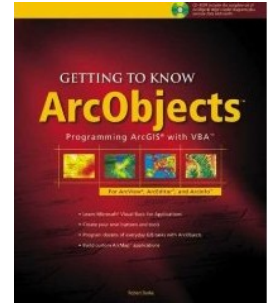
Course Modules

1. Introduction to Microsoft .NET
2. Introduction to Visual Studio .NET
3. From VB to VB.NET
4. Introduction to C#
5. Extending ArcGIS Desktop Fundamentals
6. Building ArcGIS Desktop Commands and Commandbars
7. Extending Application Windows with Microsoft .NET
8. Creating Custom ArcGIS Extensions
9. Building GeoProcessing Tools
10. Extending the Editor
11. Extending the Geodatabase
12. Creating .NET Installation Programs
13. Introduction to Programming ArcGIS Engine



What You Get!

- Audio and Visual Lectures
- Software Demonstrations
- Exercises and Data
- Bound, Hard-Copy Lecture Materials
- A copy of ESRI Press' "Getting to Know ArcObjects"



Cost

- A) Self Paced course is \$169.00 per student plus shipping for mail delivery* or \$129.00 for electronic download
- B) ESRI Programmers Special - \$265.00 per student
 - Mastering Python for Geoprocessing in ArcGIS
 - Programming ArcObjects with VBA
 - Programming ArcObjects with .NET
- C) Internet Based Instructor Guided course is \$567.00 per student.

* Mail delivery includes delivery of printed materials only. All electronic data and record lectures must still be downloaded from the internet. Only available in the US and Canada.

Discounts are available for groups or if bundled with other training.

Required Hardware & Software

The following is required to take this course:

ArcGIS Desktop 10.x (ArcView, ArcEditor, or ArcInfo)
Internet Browser (Internet Explorer 7 or higher recommended)
Visual Studio 2005 or 2008
Windows XP, Vista or 7
CD-ROM or DVD-ROM

If you do not have a copy of ESRI's ArcGIS Desktop software, you can request a 60 day evaluation version by going to <http://www.esri.com/software/arcgis/arcview/eval/evaluate.html>

If you don't have a copy of Microsoft Visual Studio, you can download a 90 day trial version from Microsoft's website (www.microsoft.com).