

Beginning Visual Basic 4.0 Using Visual Studio 2010

GWEVB1504
5 day

Table of Contents

- [Prerequisites](#)
- [Course Summary](#)

Prerequisites

- There are no prerequisites for this class.
- Knowledge of programming fundamentals is helpful, but not required.
- Knowledge of SQL is helpful, but not required.

Course Summary and Lessons

Intro to Visual Basic.NET

- .NET Framework
- Visual Studio 2010 Overview
- Creating a Simple Application
 - Console Application
 - Windows Forms Application
 - Web Application

Visual Basic Syntax

- Variables
 - Value Types vs. Reference Types
 - Simple Types
 - Naming Variables
 - Literal Values
 - Declaring Variables
 - Assignment
- Expressions
- Operators
- Namespaces

- Operators
- Branching Statements
- Looping

More About Variables

- Type Conversion
- Enumerations
- Structures
- Arrays
- Manipulating Strings

Functions

- Defining Functions
- Using Functions
- Returning Values
- Parameters
- Overloading
- The Main() Function
- Delegates

Flow Control

Debugging and Error Handling

Beginning Visual Basic 4.0 using Visual Studio 2010 (cont)

- Debugging in VS 2010
- Break Points
- Interrogating Variables
- Stepping Through Code
- Immediate Window
- Command Window
- Call Stack
- Handling Errors
 - Try...Catch...Finally

Intro to Object-Oriented Programming

- Objects
- Properties
- Fields
- Methods
- Events
- Constructors (Sub New())
- Destructors (Finalize)
- Instance vs. Shared
- Interfaces
- Inheritance
- Polymorphism
- Defining a Class
 - Fields
 - Methods
 - Properties
- Refactoring
- The This Keyword
- Implementing Interfaces
- The Partial Keyword

Collections

- Using Collections
- Indexers
- Iterators

Generics

- Introduction to Generics
- Nullable Types

Visual Basic Language Enhancements

- Initializers
- Intro to Lambda Expressions

Basic Windows Programming

- Controls Overview
- Creating Windows Forms
- Creating MDI Applications
- Creating Menus
- Creating User Controls

Basic ASP.NET Programming

- ASP.NET Overview
- Creating a Simple Web Page
- Using Server Controls
- ASP.NET Postback
- Validation
- State Management Overview
- CSS
- Master Pages
- Site Navigation

Introduction to ADO.NET

- Connection
- Command
- DataReader
- DataAdapter
- DataSet

Working with Files

- Reading from Files
- Writing to Files

Deployment

- Deploying a Windows Application
- Deploying a Web Application