

# .NET Certificate using Microsoft Visual Studio 2005

*For those who develop Web and Windows applications or who wish to stay abreast of the latest innovations in technology, and management professionals with programming experience who wish to enhance their skills and knowledge base*

## COURSE DESCRIPTIONS:

### INTRODUCTION TO .NET FRAMEWORK TECHNOLOGIES AND XML.NET

(1.5 CEUs)

XML and XML-based technologies and tools enable developers to build inter-operable systems rapidly and react quickly to changes as required by business needs. As the Internet's growth continues, more and more Web-based services will be delivered over the Internet through XML-based technologies. .NET is Microsoft's platform for XML Web services, allowing applications to communicate and share data over the Internet regardless of operating system or programming language. After learning the basics of XML language as a generic tool for data communication, .NET platform for XML development will be examined. No knowledge of XML is assumed as a prerequisite.

### DEVELOPING .NET SOLUTIONS WITH VISUAL BASIC.NET

CSE 5203 (2.1 CEUs)

VB.Net is Microsoft's upgrade of the Visual Basic 6 programming environment. This course will introduce the student to the Visual Basic.Net design environment, controls, properties, and event procedures. At the conclusion of the course, students will have written a basic Windows program using Visual Basic.Net. Prerequisites: Familiarity

### DEVELOPING .NET SOLUTIONS

### WITH C#

CSE 5200 (2.1 CEUs)

C# is a modern, object-oriented language intended to be the premier language for writing Microsoft .NET Framework applications for the enterprise. In this hands-on course, students can learn the basics of the C# programming language. Topics include the .NET Framework, understanding the C# language and syntax, an introduction to Object-

Oriented Design and Programming for C#, Windows Forms, and debugging and deploying C# applications.

Prerequisites: Experience with a programming language is required

### BUILDING WEB-BASED SOLUTIONS USING ASP.NET

CSE 5206 (2.1 CEUs)

ASP.NET is Microsoft's primary technology for building dynamic, database-driven Web applications. This hands-on course teaches students to create ASP.NET applications. Topics include ASP.NET architecture, Web form and server controls, validation controls, building WML(Wireless Markup Language) pages, creating custom controls and creating business components. Prerequisites: XML.NET and VB.NET or C#

**SEE NEXT PAGE FOR ADDITIONAL COURSE DESCRIPTIONS.**



## **DEVELOPING .NET WEB SERVICES AND ADO.NET APPLICATIONS**

**(2.1 CEUs)**

In this comprehensive and hands-on course, students can learn the skills they need to develop Web Services that will be hosted in the new Microsoft .NET platform. In addition, students can learn the ADO.NET model. Topics include underlying technologies involved in Web Service communication and discovery such as XML, SOAP, WSDL, DISCO, understanding ADO.NET, managed providers, understanding and using DataSets, and accessing XML through ADO.NET.

Prerequisites: XML.NET, ASP.NET, and VB.NET or C# of forms, documents, and related math.

### **OPTIONAL COURSE (NOT PART OF CERTIFICATE PROGRAM)**

## **ADVANCED VB.NET**

**(2.1 CEUs)**

The focus of the course will be on building business logic and data access services using Visual Basic.NET of the .NET framework. Oracle9i and SQL Server 2000 will be the backend database servers. Topics included are building multitier programs with classes, windows database applications, programming stored procedures and triggers, programming components in VB.NET and building windows based front end with Visual Basic.NET forms. Prerequisite: VB.NET