

Course Syllabus

Course Title: Introduction to C# Visual Studio

Course Description:

C# has been one of the flagship languages for Microsoft since the introduction to Visual Studio.Net in 2001. Visual Studio.NET offers several enhancements to this programming tool. This course will cover essential C# fundamentals for students with some programming experience but no C# experience. Topics include the fundamentals of programming in .NET (variable, loops, data structures, etc.), database programming, windows programming, and web programming.

Course Prerequisite(s):

Experience programming in C, C++, Visual Basic, Java or other programming language

Course Objectives:

1. Able to create windows forms applications including multiple document interface applications.
2. Able to create applications that interact with databases such as SQL Server and Microsoft Access.
3. Understand the basics of .NET.
4. Understand the fundamentals of C# programming (variables, controls, loops, decision structures, etc.). Able to create basic windows applications using MS Visual Studio 2010.

Textbook(s):

Murach's C# 2010
Mike Murach & Associates
ISBN: 978-1-890774-59-2

Next Class Possibilities

Microsoft .NET Framework-Application Development Foundation
C# Web Programming With Visual Studio

Instructor Notes:

Students can download C# Visual Studio 2010 and SQL Server 2005/2008 express edition for free from Microsoft <http://www.microsoft.com/express/>

Additional Resources:

<http://msdn.microsoft.com/vcsharp/>
<http://www.c-sharpcorner.com>
<http://www.journeyed.com>

Lesson Plan – by week or session

Session 1: Introduction to Visual Studio 2010 (Chapter 1)
Session 2: Windows Form Applications (Chapters 2 & 3)
Session 3: Basic Coding Techniques (Chapters 4 & 5 & 6 & 7)

- Session 4: Basic Coding Techniques cont'd (Chapters 8 & 9 & 10 & 11)
- Session 5: Basics of Object Oriented Programming (Chapters 12 & 13)
- Session 6: More with Object Oriented Programming (Chapters 14 & 15)
- Session 7: Basic Database Programming (Chapters 17 & 18)
- Session 8: Database Programming cont'd (Chapters 19 & 20 & 21 & 22)
- Session 9: Finishing out an application and deploying it (Chapters 23 & 24 & 25)