

**AUSTIN COMMUNITY COLLEGE
CONTINUING EDUCATION**

Web Applications with ASP.NET Part II:

(18 hours)

**ITNW 7005
COURSE SYLLABUS**

Course Description: Covers creating ASP.Net applications with Visual Studio.NET, managing application state, accessing and binding data using ADO.Net, creating custom server controls. Students will learn how to create web forms, use server controls, tracing and debugging applications. **Prerequisites:** Web Applications with ASP.NET: Part I or equivalent experience.

Objectives: Every student will be able to:

- Use the tracing features of Visual Studio.NET
- Use validation controls to validate user input
- Create a user control
- Access data by using the built-in data access tools that are in Visual Studio.Net
- Use ADO.Net to access data in an ASP.Net web application.

Rationale: Microsoft's .NET framework represents a major change in the way that Web applications are built and run. This course is designed to give students a look into this new technology for Web applications, and help them continue creating web applications using ASP.Net, as well as learning how to connect their web applications to a database.

Required Material: Microsoft ASP.Net Step By Step - Andrew Duthie

Type of Course: Short Course

Evaluation: Students will be evaluated on their competency in performing a variety of hands-on exercises created to insure the student has achieved all course objectives throughout the course and class participation. In order to earn CEU credit for a course

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Course Outline:

1. Tracing in ASP.Net WebApplications (2 hours)
 - a. Understanding Tracing
 - b. Remote Debugging
 - c. Resources
2. Validating User Input (2.5hours)
 - a. Overview
 - b. Overview of User Input Validation
 - c. Using Validation Controls
 - d. Page Validation
 - e. Lab: Validating User Input
3. Creating User Controls (3.5 hours)
 - a. Overview
 - b. Adding User Contorls to an ASP.Net Web Form
 - c. Creating User Controls
 - d. Lab: Creating User Controls
4. Accessing Relational Data Using Visual Studio.NET (5 hours)
 - a. Overview
 - b. Overview of ADO.Net
 - c. Creating a Connection to a Database
 - d. Displaying a DataSet in a List-Bound Control
 - e. Lab: Accessing Relational Data Using Visual Studio.NET
5. Accessing Data with ADO.Net (5 hours)
 - a. Introduction to Using ADO.Net
 - b. Connecting to a Database
 - c. Accessing Data with DataSets
 - d. Using Multiple Tables
 - e. Accessing Data with DataReaders