

**AUSTIN COMMUNITY COLLEGE
CONTINUING EDUCATION**

Web Applications with ASP.NET Part III:

(18 hours)

**ITNW 6068
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 II or equivalent experience.

Objectives: Every student will be able to:

- Call a stored procedure from an ASP.Net Web Application.
- Access Extensible Markup Language (XML) data and read it into a DataSet object
- Consume and create an XML Web service from an ASP.Net Web application.
- Store ASP.Net Web application and session data by using a variety of methods.
- Configure and deploy an ASP.Net Web application.
- Secure an ASP.Net Web application by using a variety of techniques.

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

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Course Outline:

1. Calling Stored Procedures with ADO.Net (1.5 hours)
 - a. Overview
 - b. Overview of Stored Procedures
 - c. Calling Stored Procedures
 - d. Lab: Calling Stored Procedures with ADO.Net
2. Reading and Writing XML Data (2.5 hours)
 - a. Overview
 - b. Overview of XML Architecture in ASP.Net
 - c. XML and the DataSet Object
 - d. Working with XML Data
 - e. Using the XML Web Server Control
 - f. Lab: Reading XML Data
3. Consuming and Creating XML Web Services (3.5 hours)
 - a. Overview
 - b. Overview of Using XML Web Services
 - c. Calling an XML Web Service Using HTTP
 - d. Using a Proxy to Call an XML Web Service
 - e. Creating an XML Web Service
 - f. Lab: Consuming and Creating XML Web Services
4. Managing State (3 hours)
 - a. Overview
 - b. State Management
 - c. Application and Session Variables
 - d. Cookies and Cookieless Sessions
 - e. Lab: Storing Application and Session Data
5. Configuring, Optimizing, and Deploying an ASP.Net Web Application (3.5 hours)

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6. Securing an ASP.Net Web Application (4 hours)
- a. Overview
 - b. Web Application Security Overview
 - c. Working with Windows-Based Authentication
 - d. Working with Forms-Based Authentication
 - e. Overview of Microsoft Passport Authentication
 - f. Lab: Securing a Microsoft ASP.Net Application