

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number:** ITP 244

**Credits:** 4

**Course Title:** ASP.NET - Server Side Programming

**Course Description:** Entails instruction in creation of ASP.NET web applications to deliver dynamic content to a web site utilizing server controls, web forms, and web services to accomplish complex data access tasks. Prerequisite or Co-requisite: ITP 236 or IT faculty approval. Lecture 4 hours per week.

**General Course Purpose:** Serves as a required course for the Information Systems Technology AAS degree - Computer Programmer specialization. The course may also be used as an IT elective for the Microcomputer Applications and Internet Applications Development specializations of the Information Systems Technology AAS degree.

**Course Prerequisites and Co-requisites:**

Prerequisites or Co-requisite: ITP 236 or IT faculty approval

**Course Objectives:**

Upon completing the course, the student will be able to

- a. Apply the fundamentals of web application design, development, and deployment using ASP.NET (Active Server Pages) and the .NET framework; and
- b. Use .NET languages (Visual Basic.NET) to manage and create web forms and server controls, to accomplish complex data access tasks and implement dynamic content.

**Major Topics to Be Included:**

- a. Introduction to Web Server Technology and Web-based applications
- b. .NET framework
- c. XML
- d. Web forms and ASP.NET
- e. Configuration, scope, and state
- f. Web design including CSS, themes, master pages, and navigation
- g. Database controls, Access, and updates
- h. Validation

**Effective Date of Course Content Summary:** January 20, 2017