

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITP 298

Credits: 4

Course Title: Seminar and Project—Programming Capstone

Course Description

Provides students with hands-on experience developing sophisticated web-based applications using ASP.NET and SQL Server including profiles, personalization, web parts, themes, multi-lingual, and web services. Students will work in small teams to build a semester-long project.

Lecture 4 hours per week.

General Course Purpose

Project based course for students who are completing the AAS degree—programming specialization.

Course Prerequisites/Corequisites

ITP 244 or permission of the instructor

Course Objectives

Upon completing the course, the student will be able to:

1. Build 4-tier web applications using web services.
2. Expand their use of the .NET framework to build web applications using ASP.NET.
3. Build dynamic database driven applications.
4. Use login, profiles, and personalization in a web application.
5. Use web parts to build web-portal type applications.
6. Integrate multiple themes, skins, and style sheets throughout the application for custom designs.
7. Consume and provide web services.
8. Use resources for multi-lingual applications.
9. Work in teams to develop a project.

Major Topics to be Included

1. 4-Tier web application
2. Dynamic database-driven application structure
3. Securing web sites
4. Profiles and personalization
5. Web parts
6. Multiple themes
7. Using resources (multi-lingual)

Effective Date of Course Content Summary: 11/1/2008