J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITP 298 **Credits:** 4

Course Title: Seminar and Project in Information Technology Programming: 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. Prerequisites: ITP 236, ITP 244, ITP 251, and ITD 130 or permission of the instructor. Lecture 4 hours per week.

General Course Purpose:
This is a project-based course for students who are completing the Information Systems Technology AAS degree, Computer Programmer specialization.

Course Prerequisites/Co-requisites:
Prerequisites: ITP 236, ITP 244, ITP 251, and ITD 130 or permission of the instructor

Course Objectives:
Upon completing the course, students will be able to
1. Build 3-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. Integrate multiple themes, skins, and style sheets throughout the application for custom designs.

Major Topics to be Included:
1. 3-tier web application
2. Dynamic database-driven application structure
3. Securing web sites
4. Profiles and personalization
5. Using resources (multi-lingual)

Effective Date of Course Content Summary: August 15, 2013