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 136, ITP 236, ITP 245, ITP 251, ITD-130, ITD-132, or school approval. Lecture 4 hours per week.

General Course Purpose: Serves as the capstone course requirement for students in the Computer Programmer Career Studies Certificate in the Information Systems Technology program.

Course Prerequisites and Co-requisites:
Prerequisites: ITP-136, ITP 236, ITP 245, ITP 251, ITD-130, and ITD-132 or school approval

Student Learning Outcomes:
Upon completing the course, students will be able to
a. Build 3-tier web applications;
b. Expand their use of the .NET framework to build web applications using MVC or Windows applications using WFP;
c. Build dynamic database-driven applications;
d. Use login, profiles, and personalization in a web application; and
e. Integrate combinations of Bootstrap, JavaScript, JQuery, and style sheets throughout the application for rich user experiences.

Major Topics to Be Included:
a. Project management
b. Database design
c. Application planning
d. Technology research
e. Soft skills for presenting ideas

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