

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITD 298 Credits: 4

Course Title: Seminar and Project – Web Design Capstone

Course Description

Provides students with hands-on experience developing exemplary Web sites created with Dreamweaver using advanced behaviors and techniques such as **Asynchronous JavaScript and XML (AJAX)**, database connectivity, Flash with ActionScript 3.0, and additional components that students will select. Prerequisite: ITD 210 or permission from the instructor. Lecture 4 hours per week.

General Course Purpose

Provides students with hands-on experience developing exemplary Web sites created with Dreamweaver using advanced behaviors and techniques.

Course Prerequisites/Corequisites

ITD 210 or permission from the instructor

Course Objectives

Upon successfully completing the course, the student will select from some of the following Web tools and:

1. Build an exemplary Web site using advanced concepts
2. Code and generate cascading style sheets for page layout, formatting, and print
3. Utilize AJAX techniques to make Internet applications smaller, faster and more user-friendly
4. Abide by XHTML standards
5. Code and modify JavaScript for advanced control
6. Write SQL code
7. Create an easy-to-use web site BLOG, where you can quickly post thoughts, interact with people, and more
8. Explore RSS feeds such as news, blogs, media, and search
9. Setup Wiki spaces for group Websites (i.e. families, classrooms, sports teams, community groups, book clubs, fan clubs, party organizers, wedding planners, and more)
10. Create a **podcast** to distributed over the Internet for portable media players or personal computers
11. Explore Virtual Reality
12. Create interactive Flash movies(.swf) files using ActionScript 3.0, and Flash video files (.flv)
13. Suggest and utilize additional Web tools

Major Topics to be Included

1. Cascading Styles Sheets (CSS) for page layout and formatting
2. AJAX
3. EXtensible HyperText Markup Language (XHTML)
4. JavaScript
5. SQL
6. Blogs, RSS feeds, Wikis, Podcasts
7. Virtual Reality
8. Flash movie files (SWF) and video (FLV)

Effective Date of Course Content Summary: 10/01/2008