

**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 websites created with Dreamweaver using advanced behaviors and techniques, such as Asynchronous JavaScript and database connectivity using the Php language, JQuery, responsive web design, and additional components that students will select. Prerequisite: ITD 210 and ITD212 or permission from the instructor. Lecture 4 hours per week.

General Course Purpose: Required in Web Development Career Studies Certificate

Course Prerequisites and Co-requisites:

Prerequisite: ITD 210, ITD212 or school approval

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Build an exemplary website using advanced concepts;
- b. Code and generate cascading style sheets for page layout, formatting, and print;
- c. Utilize Bootstrap to create a responsive website;
- d. Utilize AJAX techniques to make Internet applications smaller, faster, and more user-friendly;
- e. Abide by XHTML standards;
- f. Code and modify JavaScript for advanced control;
- g. Write SQL code;
- h. Create a podcast to be distributed over the Internet for portable media players or personal computers;
- i. Integrate JQuery within site; and
- j. Suggest and utilize additional web tools.

Major Topics to Be Included:

- a. Cascading Styles Sheets (CSS) for page layout and formatting
- b. AJAX
- c. EXtensible HyperText Markup Language (XHTML)
- d. JavaScript
- e. SQL and PHP
- f. Blogs, RSS feeds, Wikis, Podcasts

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