Course Title: **Web Design**

Description: This semester course introduces basic web design techniques. Topics include customer expectations, HTML (Hypertext Markup Language), CSS (Cascading Style Sheets), multimedia technologies, usability and accessibility practices, and techniques for the evaluation of web design. Upon completion, students should be able to employ basic design techniques to creatively present information on the internet.

Standards have been adopted from the Iowa CTE Standards in Information Technology, standards 2, 4, 5, and 7.

Reporting Topic	Course Level Standards	Competency Statement
HTML	- Students will demonstrate an understanding of the planning, development, and implementation of web sites. - Demonstrate knowledge of how to intercept, capture and change HTML pages.IT 5.5.4 - Use basic Web development skills.IT 7-8.3 - Demonstrate that website meets the validation process and is compatible across multiple browsers and devices.IT 7-8.3.4 - Employ basic web programming knowledge.IT 7-8.5	When using HTML5, Students can program a functional website.
CSS	- Students will demonstrate knowledge of languages, markup tags, and good coding practices commonly used to create web pages. - Demonstrate the relationship between different numbering systems (binary, decimal, hex).IT 2.4.1 - Use basic Web development skills.IT 7-8.3 - Demonstrate that website meets the validation process and is compatible across multiple browsers and devices.IT 7-8.3.4 - Employ basic web programming knowledge.IT 7-8.5	When using CSS3, Students can properly stylize HTML5 aspects to create a functional website.

Visual Elements and Graphics	• Using proper elements of HTML5/CSS3, Students will implement HTML5/CSS3 graphic elements. • Use basic Web development skills.IT 7-8.3 • Demonstrate that website meets the validation process and is compatible across multiple browsers and devices.IT 7-8.3.4 • Employ basic web programming knowledge.IT 7-8.5 • Apply effective use of negative space, composition, message structure, graphics, etc. to graphic works.IT 8-2.6.1	Students will identify and demonstrate (using HTML5/CSS3) appropriate use of graphical elements for web pages.
Page Layout	• Students will demonstrate knowledge of web page layout fundamentals. • Use basic Web development skills.IT 7-8.3 • Demonstrate that website meets the validation process and is compatible across multiple browsers and devices.IT 7-8.3.4 • Employ basic web programming knowledge.IT 7-8.5	Students will demonstrate knowledge of web page layout fundamentals while properly manipulating HTML5/CSS3 elements.
Tables	• Students will create, edit, and manipulate table elements and controls • Use basic Web development skills.IT 7-8.3 • Demonstrate that website meets the validation process and is compatible across multiple browsers and devices.IT 7-8.3.4 • Employ basic web programming knowledge.IT 7-8.5	Students will create, edit, and manipulate table elements and controls through the use of HTML5/CSS3
Forms	• Students will create, edit, and manipulate form elements and controls • Demonstrate the ability to code a program/application.IT 5.3.1 • Use basic Web development skills.IT 7-8.3	Students will create (with HTML5/CSS3), edit, and manipulate form elements and controls

	● Demonstrate that website meets the validation process and is compatible across multiple browsers and devices.IT 7-8.3.4 ● Employ basic web programming knowledge.IT 7-8.5	
Web Design	● Use logic to solve problems and demonstrate trouble-shooting skills. (3A-CS-03)IT 2.2 ● Develop a plan to troubleshoot an identified technical issue.IT 2.2.1 ● Demonstrate initiative to independently solve problems and trouble-shoot.IT 2.2.2 ● Understand the resources available to troubleshoot an issue.IT 2.2.3 ● Demonstrate the ability to use the internet to research and find answers to technical issues.IT 2.5.1 ● Demonstrate the ability to prioritize tasks.IT 3.1.4 ● Demonstrate a basic understanding of Domain Name System(DNS).IT 4.9.2 ● Web and Digital Communications/Web Design Pathway - Cluster Knowledge and Skill Statement: Design and employ the use of graphics to create a visual Web/digital design.IT 7-3 ● Apply color theory to select appropriate colors.IT 7-3.2.2 ● Create and/or implement the look and feel of the product.IT 7-3.2.3 ● Evaluate visual appeal.IT 7-3.2.7 ● Use basic Web development skills.IT 7-8.3 ● Demonstrate that website meets the validation process and is compatible across multiple browsers and devices.IT 7-8.3.4 ● Employ basic web programming knowledge.IT 7-8.5 ● Demonstrate knowledge of website testing.IT 7-8.5.3 ● Demonstrate knowledge of the uses and	Students will be able to Employ basic web programming knowledge

	advantages/disadvantages of various scripting Languages.IT 7-8.5.4 ● Evaluate problem-solving processes and outcomes.IT 7-9.2.5 ● Incorporate appropriate color modes in graphic works including but not limited to RGB and CMYK.IT 8-3.3.2	