CompuScholar, Inc.

Alignment to Georgia **Web Design** Standards

Georgia Course Details:

Course Title:	Web Design
Career Cluster:	CTAE / Information Technology
Course Code(s):	11.45200
Standards Link:	Web-Design.pdf

CompuScholar Course Details:

Course Title:	Web Design
Course ISBN:	978-0-9887070-3-0
Course Year:	2022

Note 1: Citation(s) listed may represent a subset of the instances where objectives are met throughout the course.

Note 2: Citation(s) for a "Lesson" refer to the "Lesson Text" elements and associated "Activities" within the course, unless otherwise noted. The "Instructional Video" components are supplements designed to introduce or re-enforce the main lesson concepts, and the Lesson Text contains full details.

Note 3: Citation(s) to "Supplemental" or "Suppl." lessons can be found in Supplemental chapters at the end of each course.

Course Description

Can you think of any company that does not have a web presence? Taking this course will equip students will the ability to plan, design, and create a web site. Students will move past learning how to write code and progress to designing a professional looking web site using graphical authoring tools that contains multimedia elements. Working individually and in teams, students will learn to work with web page layout and graphical elements to create a professional looking web site.

Course Standards

IT-WD-1: Standard: Demonstrate employability skills required by business and industry.	CITATION(S)
IT-WD-1 standards are identical across all CTAE courses and are intended to be incorporated by the teacher into other lessons as opportunities arise. All CompuScholar courses contain opportunities for effective communication, research, problem solving, creative thought, career exploration and workspace traits, time management and teamwork.	Throughout the course

IT-WD-2: Plan, develop, implement, and resolve ethical issues involved in creating and publishing a web site.	CITATION(S)
2.1 Define key terms in site development: cloud computing, versions of HTML, CSS, design consistency, deprecated tags, wire framing/layout design, hyperlinks.	Chapter 1, Lesson 2 Chapters 5, 6 Chapter 10, Lesson 1 Chapter 13, Lesson 1
2.2 Develop a logical argument for using cloud computing and the various web hosting platforms for business and personal use.	Supplemental Lesson 1
2.3 Describe and illustrate different versions of HTML and the development of HTML.	Chapter 1, Lesson 2 Chapter 16, Lesson 3
2.4 Describe the phases of web development (life cycle) and provide specific tasks for each phase.	Chapter 14 (Mid-Term Project) Chapter 28 (Final Project) Supplemental Lesson 4
2.5 Use flowcharts/storyboards to design a web site.	Chapter 13, Lesson 1 Chapter 14 (Mid-Term Project) Chapter 28 (Final Project)
2.6 Identify essential web site navigation issues that help ensure site usability (consistency, intuitive text/icons, and breadcrumbs).	Chapter 10, Lesson 1 Chapter 13, Lesson 1
2.7 Describe ethical, government, and accessibility standards & W3C standards (readability, usability, browser compatibility, and copyright issues related to use of digital media).	Chapter 11, Lesson 1 Chapter 13, Lesson 2 Chapter 16, Lesson 1 Chapter 17, Lesson 1
2.8 Identify technologies available to enhance the user's experience, including programming languages and multimedia technologies.	Chapter 13, Lesson 3 Chapters 19, 25, 26, 27

IT-WD-3: Create documents using a variety of tags following coding practices commonly used to create web pages.	CITATION(S)
3.1 Identify basic HTML document (web page) layout & tags used to create web pages according to industry standards (e.g., header, footer, side bar, main content, navigation/menu bar, tabs/drop downs).	Chapters 2, 3, 4, 5, 17, 24
3.2 Demonstrate ability to create a web site utilizing the latest version of HTML (e.g., headings, paragraphs, breaks, lists, links, images, horizontal rules, divs).	Chapters 4, 5, 17
3.3 Demonstrate ability to format text using proper tags set by the W3C (strong, emphasize).	Chapter 3, Lesson 3 Chapter 7, Lesson 1
3.4 Demonstrate ability to use tables to control the layout and appearance of data.	Chapter 12
3.5 Demonstrate ability to create forms that accepts user inputs.	Supplemental Lesson 11
3.6 Demonstrate understanding of the importance of validating web sites and tools available for the process.	Supplemental Lesson 9

IT-WD-4: Create and use graphics to enhance web pages using a variety of tools.	CITATION(S)
4.1 Identify and use design and color principles appropriate for graphics and web pages.	Chapter 6, Lesson 2 Chapter 10, Lesson 1
4.2 Describe the image formats used within a web page (gif, jpg, png, image maps) and describe appropriate use of which format.	Chapter 11, Lesson 1
4.3 Add images to a web page to enhance meaning of web content.	Chapter 11, Lesson 2
4.4 Explore online tools and downloadable software available to create and edit still and animated graphics.	Chapter 11, Lesson 1

IT-WD-5: Define and apply essential aspects of the Cascading Style Sheets to format elements within a web site.	CITATION(S)
5.1 Use knowledge of how and why style sheets are used in web design to explain design elements of a web site.	Chapter 6 Chapter 25, Lesson 4
5.2 Create and modify internal and external style sheets to format the styling of text, layout tables, content flow, positioning of objects.	Chapter 6 and subsequent chapters
5.3 Design web pages utilizing CSS to manage text flow using regions, columns, and graphical interfaces.	Chapter 6 and subsequent chapters

IT-WD-6: Use (Graphic User-Interface) GUI-based HTML editing software to create web sites.	CITATION(S)
6.1 Explain the differences between the types of editing software and when to editing software: text, object, and WYSIWYG (What You See Is What You Get).	Chapter 16, Lesson 4
6.2 Design web sites using a GUI-based editor following the design principles to enable navigation, usability, and accessibility.	Chapter 16, Lesson 5 and subsequent chapters
6.3 Explore advanced layouts & scripting tools available through GUI-based editors such as widgets, image sliders, etc.	N / A
6.4 Create a website which implements tables.	Chapter 12
6.5 Create and use interactive forms on a web site.	Supplemental Lesson 11
6.6 Design and implement layers, image maps, and navigation bars.	Chapter 5, Lesson 3 Chapter 9, Lesson 3 Chapter 24 Supplemental Lesson 10
6.7 Enhance a website with media objects and images.	Chapters 11, 19

IT-WD-7: Develop an understanding of e-commerce practices and related technologies necessary to create a secure, useful interface to conduct business online.	CITATION(S)
7.1 Develop a working e-commerce vocabulary including e-business, mobile commerce, branding, market space, business model (B2B, B2C), security, payment options.	N / A

7.2 Explain the importance of branding and establishing a color palette for an e-business to create an online presence.	Chapter 10
7.3 Explain the importance of using web design principles to meet customer expectations.	Chapter 10, Lesson 1
7.4 Explain the benefits of configuring a site to mobile standards currently used further the accessibility of an e-business.	N / A

IT-WD-8: Test, analyze, and identify performance issues related to publishing and maintaining web sites.	CITATION(S)
8.1 Identify essential issues in developing and maintaining a web site, including project management, testing, legal issues.	Chapter 13, Lesson 2 Supplemental Lesson 4
8.2 Identify strategies commonly used for managing a user's experience and improving site creativity and aesthetic qualities.	Chapter 10, Lesson 1
8.3 Explore options for publishing a web site and web hosting.	Supplemental Lesson 1
8.4 Identify the benefits and drawbacks of running your own web server versus using a service provider.	Supplemental Lesson 1
8.5 Plan and deliver oral presentations of a web site explaining the developmental process before, during, and after site completion to a potential customer.	Chapters 14 and 28 (Team Projects) Supplemental Lesson 4

IT-WD-9: Explore how related student organizations are integral parts of career and technology education courses through leadership development, school and community service projects, entrepreneurship development, and competitive events.	CITATION(S)
9.1 Explain the goals, mission, and objectives of Future Business Leaders of America.	Supplemental Lesson 13
9.2 Explore the impact and opportunities a student organization (FBLA) can develop to bring business and education together in a positive working relationship through innovative leadership and career development programs.	Supplemental Lesson 13
9.3 Explore the local, state, and national opportunities available to students through participation in related student organization (FBLA) including but not limited to conferences, competitions, community service, philanthropy, and other FBLA activities.	Supplemental Lesson 13
9.4 Explain how participation in career and technology education student organizations can promote lifelong responsibility for community service and professional development.	Supplemental Lesson 13
9.5 Explore the competitive events related to the content of this course and the required competencies, skills, and knowledge for each related event for individual, team, and chapter competitions.	Supplemental Lesson 13